

Panasonic[®]

Operating Instructions

PC Software Package

Model No. **WV-ASM200**
WV-ASM200W

Extension Software

Model No. **WV-ASE201, WV-ASE202**
WV-ASE203, WV-ASE204
WV-ASE205, WV-ASE231
WV-ASE201W, WV-ASE202W
WV-ASE203W, WV-ASE204W
WV-ASE205W, WV-ASE231W

Before attempting to connect or operate this product,
please read these instructions carefully and save this manual for future use.

The model number is abbreviated in some descriptions in this manual.

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Preface

The PC Software Package WV-ASM200 (hereinafter this software) is designed for integrated management of multiple Panasonic network disk recorders and digital disk recorders (hereinafter recorders), network interface units (hereinafter encoders), network cameras (hereinafter cameras) and network microphones (hereinafter microphone) connected to a network such as a LAN or the Internet, and runs on the Microsoft® Windows® operating system.

Refer to the "Compatible devices" section (☞ page 6) for the devices compatible with this software.

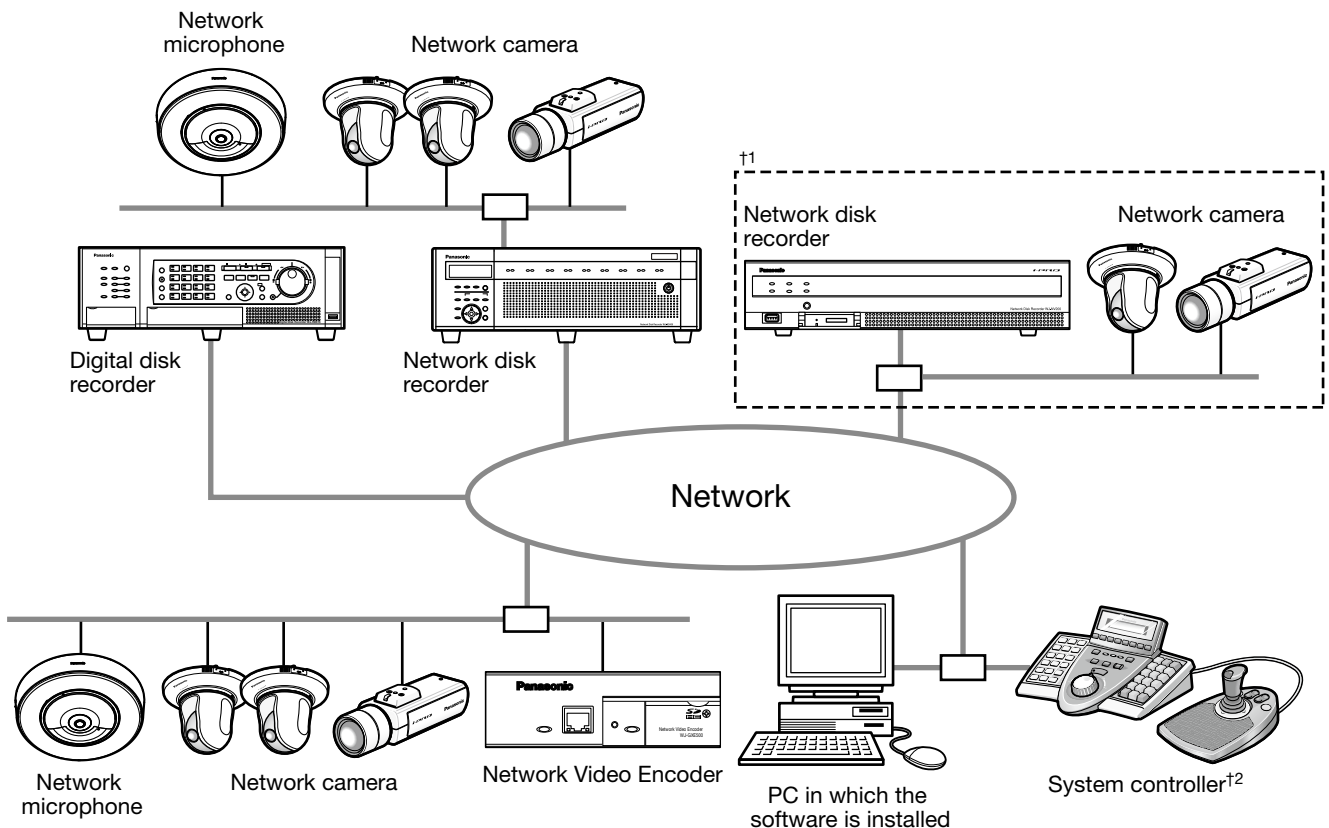
By using this software on a personal computer (hereinafter PC) via a network, it is possible to display live images of the cameras on monitors, to play audio from microphones on a PC, to play images and audio stored on the recorder, and to download image files to the hard disk drive of the PC.

Software configuration

This software consists of the following 3 applications:

- Setup software: The settings required to run the operation software can be configured and managed with this software.
- Operation software: Displaying live images, playback, downloading, searching for images and audio stored on the recorder, and controlling of the camera and microphone is available using this software.
- Service software: Reception of Panasonic alarm protocol and auto deletion of the operation log will be carried out by this software. This is the resident application (in the system tray). Once the PC is turned on, the service software runs in the background of the PC.

System configuration



†1: When the system is configured as "System A" in the illustration above, live images from the cameras connected to the recorder can directly be monitored with this software, not through the recorder.

To monitor live images directly from the cameras with this software, the following are necessary.

- Register cameras in the recorder.
- The recorder should be used with a single port.

†2: The system controller is optional.

Important:

- Do not use cross cables to connect the PC and each device.
- When connecting multiple system controllers, operation of this software is not guaranteed.

System specifications

- Recorder registration: Up to 100 recorders
- Encoder registration: Up to 64 encoders
- Camera registration: Up to 256 cameras
- Microphone registration: Up to 256 microphones
- Decoder registration: Up to 10 decoders (The license for the WV-ASE204 is required.)
- User registration: Up to 32 users
- User levels: 5 levels
- Group registration: Up to 400 groups
- Sequence registration: Up to 10 sequences (Up to 64 steps can be registered for a sequence)
- Map registration: Up to 100 maps (Up to 64 cameras can be assigned on a map, up to 20 registered maps can be used.) (The file size shall be less than 10 MB. Available file type is JPEG and BMP.)
- Number of the alarm logs that can be stored: Up to 30000 logs (Up to 1000 logs can be displayed)
- Number of the device error logs that can be stored: Up to 1000 logs (Up to 1000 logs can be displayed)
- Number of the network error logs that can be stored: Up to 1000 logs (Up to 1000 logs can be displayed)
- Number of the system logs that can be stored: Up to 1000 logs (Up to 1000 logs can be displayed)
- Number of the operation logs that can be stored: Up to 100000 logs (Up to 1000 logs can be displayed)
- Number of search results that can be displayed: Up to 1000 logs search results (Up to 200 results for VMD search)

Note:

- Number of PCs that can concurrently access a single recorder differs depending on choosing whether or not to use "Live window" and the model of the recorder in use.

Recorder	Use of "Live window"	
	Yes	No
ND300	4	6
ND200	2	4
HD300†3	2†1	3†2
ND400	8	16
HD600	4	8
NV200	1	1
NV300	4	8
ASR500	†4	†4

†3: Under the following conditions, connection to the recorder may be interrupted and a black screen may be displayed.

- Event recording and sequence are being operated.
- The total live rate for each HD300 is 15 ips or more
Refer to "WV-ASM200 Setup Instructions" for how to configure the settings for the live rate for HD300.

†4: Note that it varies depending on the system configuration in use.

†1: When displaying images on a 16-screen or 9-screen, only a single PC can access.

†2: When displaying images on a 16-screen, 2 PCs can access.

- When exceeding the maximum number of concurrent access due to an increase in the number of accesses using web browsers or FTP accesses, connection to the recorder may be interrupted and a black screen may be displayed.
- By adding the license for the Extension Software WV-ASE203 (option), it will become possible to expand the maximum numbers of registered recorders, encoders, cameras and microphones to 100, 64, 256, 256 and 256 respectively. Up to 4 licenses for the WV-ASE203 can be added.

Compatible devices

The following devices are compatible with this software.

Important:

- Some functions may not work depending on the firmware version of the compatible device. Refer to the Panasonic support website (<http://security.panasonic.com/pss/security/support/index.html>) for further information.
-

Note:

- Refer to the operating instructions of the recorder in use for the cameras and microphones that can be connected to the recorder in use.
 - Recorders of NV300 series and ND400 series support use of microphone.
 - Fisheye camera supports the microphone linkage function.
-

Compatible recorders

Model	Appears in this document as	Version	Compression
WJ-ND300, WJ-ND300A	ND300	5.20 or later	MPEG-4, M-JPEG, H.264
WJ-ND200	ND200	3.30 or later	MPEG-4, M-JPEG, H.264
WJ-HD309A, WJ-HD316A	HD300	3.44 or later	Model-specific
WJ-ND400, WJ-ND400K	ND400	2.20 or later	MPEG-4, M-JPEG, H.264
WJ-HD616K, WJ-HD716K	HD600	2.06 or later	H.264
WJ-NV200 series	NV200	1.04 or later	MPEG-4, M-JPEG, H.264
WJ-NV300 series	NV300	1.10 or later	M-JPEG, H.264
WV-ASR500 series	ASR500	5.9.1901.48362 or later	MPEG-4, M-JPEG, H.264

Compatible encoder

Model	Appears in this document as	Version	Compression
WJ-NT304	NT304	1.32 or later	MPEG-4, M-JPEG
WJ-NT314	NT314	1.32 or later	MPEG-4, M-JPEG
WJ-GXE500	GXE500	1.30 or later	H.264, MPEG-4, M-JPEG
WJ-GXE100	GXE100	1.72 or later	H.264, M-JPEG

Compatible cameras

Refer to the Readme.txt on the provided CD-ROM.

Compatible microphones

Model	Appears in this document as	Version
WV-SMR10	SMR10	1.01 or later

Compatible decoder (The license for the WV-ASE204 is required.)

Model	Appears in this document as	Version	Compression
WJ-GXD400	GXD400	2.20 or later	H.264, MPEG-4, M-JPEG

Features

Important:

- To use the following functions, it is necessary to add the license for the Extension Software WV-ASE201 (option).
 - Live window
 - Map window
 - Control using the System Controller WV-CU950Refer to the WV-ASM200 Setup Instructions (PDF) for further information about how to add the license for the Extension Software.
 - To control the GXD400, it is necessary to register the license for the Extension Software WV-ASE204 (option) additionally.
 - To use the following functions, it is necessary to add the license for the Extension Software WV-ASE231 (option).
 - Face search monitor
 - To use the following functions, it is necessary to add the license for the Extension Software (WV-ASE205 (option)).
 - Visibility enhancement
-

Remote operation of devices

It is possible to operate the recorder, encoder, cameras and microphones via a network using this software. Displaying live images, playback of recorded images, camera operation, microphone operation, status indication, searching, etc. are available.

Refer to the following chapters for further information.

"Status bar" (☞ page 28)

"Monitor live images" (☞ page 55)

"Operate the cameras" (☞ page 81)

"Operate the microphones" (☞ page 82)

"Playback" (☞ page 89)

"Search" (☞ page 95)

Multi-monitor function

The multi-monitor function using up to four PC monitors is available, and it makes possible to display the operation window, the live window and the map window simultaneously.

Refer to the "Operate using the multi-monitor function" (☞ page 77) for further information.

To use the multi-monitor function, it is necessary to add the license for the Extension Software WV-ASE201.

Image download

It is possible to download recorded images by designating the time range and the target recorders or cameras. Refer to the "Download recorded images" section (☞ page 147) for further information.

Alarm/event notification and management of logs

- **Alarm notification:** The alarm description will be displayed in a pop-up window (alarm notification window) on the operation window when an alarm occurrence is notified from the recorder. The alarm description will also be displayed as a log in the alarm log panel.
- **Event notification:** The error description will be displayed in a pop-up window (error notification window) on the operation window upon a recorder error occurrence or upon a network error occurrence. The error description will also be displayed as a log in the device error log panel or in the network error log panel.
- **Management of logs:** Each time an alarm or an error occurred, a log will be filed automatically. Logs can be checked in the log panels (alarm log panel, device error log panel and network error log panel) by log type (alarm log, device error log and network error log) respectively. When a log displayed in the log panel is clicked, playback of the respective recorded images will start. Refer to the "Alarm/event notification and management of logs" section (☞ page 166) for further information about the management of logs.

Security

It is possible to enhance security by using the user authentication function (requires entering a user name and password). This software manages the administrator (who can administrate this software) and the registered users (who can operate this software except configurations).

It is also possible to restrict operable functions by applying the user level to each registered user.

Refer to the "User management" section (page 21) for further information about the user management.

Important:

- Check if the model in use is compatible with each function.
Refer to the Panasonic support website (<http://security.panasonic.com/pss/security/support/index.html>) for further information.
-

Standard accessories

CD-ROM.....	1 pc.
Installation guide	1 pc.
Activation Key Card.....	1 pc.

Important:

- The provided CD-ROM contains the installer of this software, the operating instructions (PDF), the setup instructions (PDF) and the Readme.txt.
Prior to installation, read the Readme.txt.
 - This software will not work if the license is not registered. After installing the software on the PC in use, register the license.
-

About the user manuals

There are two PDF manuals (the operating instructions and the setup instructions) and the installation guide (leaflet).

This PDF manual contains descriptions for the registered users such as descriptions about the functions of the operation software and of how to operate the operation window.

Refer to the WV-ASM200 Setup Instructions (PDF) for descriptions of how to install this software and about the required preliminary settings before starting running this software.

"WV-ASE201" shown in the instructions and illustrations used in this manual indicates the WV-ASE201, WV-ASE201W.

"WV-ASE202" shown in the instructions and illustrations used in this manual indicates the WV-ASE202, WV-ASE202W.

"WV-ASE203" shown in the instructions and illustrations used in this manual indicates the WV-ASE203, WV-ASE203W.

"WV-ASE204" shown in the instructions and illustrations used in this manual indicates the WV-ASE204, WV-ASE204W.

"WV-ASE205" shown in the instructions and illustrations used in this manual indicates the WV-ASE205, WV-ASE205W.

"WV-ASE231" shown in the instructions and illustrations used in this manual indicates the WV-ASE231, WV-ASE231W.

The descriptions in the following pages are based on the assumption that Microsoft® Windows® 7 Professional runs on a PC.

Operation windows may not be the same as those appearing on the pages when a different OS is used or different settings are applied.

When using other OS, refer to the operating instructions of the respective OS.

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Abbreviations

These are descriptions of the basic terms used in these operating instructions.

- Microsoft® Windows Vista® Business SP2 (32-bit) and Microsoft® Windows Vista® Business SP2 (64-bit) are described as Windows Vista.
- Microsoft® Windows® 7 Professional SP1 (32-bit) and Microsoft® Windows® 7 Professional SP1 (64-bit) are described as Windows 7.
- Microsoft® Windows® 8 Pro (32-bit) and Microsoft® Windows® 8 Pro (64-bit) are described as Windows 8.

Document convention

These are descriptions of the basic terms used in these operating instructions.

Administrator

Indicates a person responsible for management and operation of this software.

User

Indicates a person who operates this software. Each user should be defined as an administrator or a registered user in this software. Only a user who is registered as an administrator can configure and maintain this software.

Recorder

Indicates Panasonic network disk recorders or digital disk recorders.

Refer to the "Compatible devices" section (☞ page 6) for the devices compatible with this software.

Encoder

Indicates Panasonic network interface unit.

Refer to the "Compatible devices" section (☞ page 6) for the devices compatible with this software.

Fixed camera

Indicates cameras without the panning and tilting functions.

PTZ camera

Indicates cameras featuring the panning, tilting and zooming functions.

Fisheye camera

Indicates Panasonic Fisheye network cameras.

Network microphone

Indicates Panasonic network microphones.

Refer to the "Compatible devices" section (☞ page 6) for the devices compatible with this software.

Linked camera

Indicates fisheye cameras to which the microphone linkage setting is applied.

7-series camera

It represents the following models: WV-SFV781L, WV-SPV781L

6-series camera

It represents the following models: WV-SPN611, WV-SPN631, WV-SFN611L, WV-SFN631L, WV-SFR611L, WV-SFR631L, WV-SFV611L, WV-SFV631L, WV-SFV631LT, WV-SPW631LT, WV-SPW631L, WV-SPW611L, WV-SPW611

New 5-series camera

It represents the following models: WV-SFV531, WV-SFR531, WV-SFN531, WV-SPN531, WV-SPN531A, WV-SPW531AL, WV-SPW532L

New 3-series camera

It represents the following models: WV-SFN311, WV-SFN310, WV-SFN311L, WV-SFR311, WV-SFR310, WV-SFV311, WV-SFV310, WV-SPN310, WV-SPN311, WV-SFV311A, WV-SFV310A, WV-SFR311A, WV-SFR310A, WV-SFN311A, WV-SFN310A, WV-SPN311A, WV-SPN310A, WV-SPW311AL, WV-SPW312L

9M Fisheye network camera

It is Panasonic fisheye network camera which can provide image capture size of 9M (2992x2992).

Live image

Indicates live images from the camera.

Decoder

Indicates Panasonic network video decoders. Refer to the "Compatible devices" section (☞ page 6) for the devices compatible with this software.

Direct image reception

Indicates that image reception directly from a camera registered in the network disk recorder, not through the recorder.

Group display

Images from cameras can be registered as a group and displayed by groups.

Sequence

Images of each registered group can be displayed sequentially in the order determined in advance. The sequence function of this software is available only for live image display.

EL-zoom

Indicates the zoom function available when displaying live or recorded images.

While the zoom function of the camera enlarges images using the zoom lens of the camera, the EL-zoom function enlarges images by processing images on this software.

Clicking a point in the EL-zoomed image moves the displayed EL-zoomed image by positioning the clicked point as the center point.

Camera operation

Indicates the operations of the camera connected, such as panning/tilting, zooming, focusing, starting the preset function (move to the preset position), starting the selected auto mode function, brightness adjustment, preset registration and AUX control.

Network playback

Recorded images on the recorder can be played via a network.

Timeline

Indicates the function that can display recording/event information of devices such as recorders along a time axis.

Manual recording

Indicates recording that is performed by clicking the [REC START] button and the [REC STOP] button.

Download

Indicates file (recorded image on the recorder) transfer from the recorder to a PC using the FTP function.

AVMD/i-VMD information

AVMD/i-VMD information is information of alarm relating to the motion detection or the removal and left behind detection. When "ON" is selected for "Display AVMD information", frame borders or traces will be displayed on the image upon the alarm detection. Check if the device in use is compatible with this software. For further information about AVMD/i-VMD, refer to the operating instructions of the model compatible with this function.

Image file

Indicates downloaded recorded image from the recorder.

File playback

Indicates playback of image files using the viewer software.

Notification function using the Panasonic alarm protocol

Indicates the function that uses alarm/event notification transmitted from the device using Panasonic alarm protocol.

Application log

Indicates logs filed each time when this software obtains information about an alarm or a device error occurrence from the recorder, or when an operation of this software is made, etc.

The application logs are filed as distinct logs; alarm log, device error log, network error log, system log and operation log.

Recorder log

Indicates logs filed each time when a recorder error or a network error occurred in the recorder.

The recorder logs are generated in the recorder. The recorder logs are filed as distinct logs; error log, access log, event log and network log.

M-JPEG

Indicates a video codec that compresses video fields from the camera into independent JPEG images sequentially.

Network load will be reduced comparing with the method that obtains JPEG images independently from the camera. However, the transmission rate will fluctuate depending on the state of the camera. Some cameras phrase this video codec as just "JPEG".

REC event

Indicates the reason (an event or an operation) why the recording started.

The recording event will be described as follows. Manual, schedule, emergency, site alarm, terminal alarm, command alarm, VMD, video loss, SD memory backup

SD memory recording (SD memory data)

Indicates the function featured in some Panasonic's cameras that transfers images saved on the SD memory card on the camera to the recorder.

Recorded images transferred to the recorder are described as "SD memory data" in these operating instructions.

The recording time of SD memory data will be displayed based on the clock of the camera.

Setup software

Indicates the application used to configure the settings required to run the operation software.

Operation software

Indicates the application used for displaying live images of the recorders, encoders and cameras, playback, downloading, searching for images and audio stored on the recorder, and controlling the camera and microphones.

Operation window

Indicates the window used to operate all functions except for configurations of this software.

Live window

Indicates the window used only for the group or sequence display of live images.

Map window

Indicates the window that displays a map with the registered camera icons.

It is possible to display live images from the desired camera by clicking the respective camera icon on the map.

SD memory download

Indicates the function featured in some Panasonic's cameras that transfers H.264 video files (mp4 files) saved on the SD memory card equipped with the camera to a PC using the FTP function.

Smooth & fast playback mode

Indicates the mode that can play back all the frames without skipping when playing back Step 2 and Step 3.

License

Registration is surely required before using this software. Refer to the provided "Activation Key Card" to obtain and register the "Registration Key". The obtained "Registration Key" can be used only on the PC in which the software is installed.

Demo edition

It is possible to use all the functions of the designated software for 90 days by registering the license for the demo edition.

Face search monitor

This window is used to perform operation relating to the face search. The real time alarm display, face/ alarm search and age/gender report will be executed on this window.

Visibility enhancement

This function removes snowfall or rainfall from images to make them easily viewable.

Hardware decoder (QSV)

This is a function that is built into the Intel® Core processor and the formal name is Intel® Quick Sync Video. This function is used to process high-resolution video.

Refer to "<http://www.intel.com/content/www/us/en/architecture-and-technology/quick-sync-video/quick-sync-video-general.html>" for further information.

Cropping

This is a function that makes images easy-to-see by cropping a part or 5 parts on a panorama image.

Restrictions when operating MPEG-4 or H.264 images

There are following restrictions for each function when MPEG-4 or H.264 images are used with this software. Read the following before operating this software.

1. When displaying live images

- Black screen may be displayed for the first few seconds (*) when the following operations are performed while displaying live images in MPEG-4 or H. 264 format.
 - When trying to display live images in MPEG-4 or H. 264 format. (By switching camera channel, etc.)
 - When MPEG-4 or H.264 image is enlargedExample: When "3 seconds" is selected for the refresh interval on the camera, MPEG-4 or H.264 images will be refreshed in 3 seconds intervals.
- When displaying SXVGA images, live images will be displayed with the following interval.
 - When images are obtained from a recorder, encoder or camera other than ASR500, images on 16-/25-/36-/49-/64-screen and on small areas of 7-/10-/13-screen will be displayed with the refresh interval (*). (All images will be kept displayed for several seconds from the moment when the images are displayed.)
 - When images are obtained from ASR500, images on 1-screen will be refreshed with the live rate specified on the recorder. Images being displayed on 4-/7-/9-/10-/13-/16-/25-/36-/49-/64-screen and on small areas of 3A-/3B-screen will be refreshed every 1 second. When displaying images on a multi-screen, image refresh delay of 5 seconds or less may sometimes occur. In the time display, one second of time difference may occur depending on the timing of obtaining images.
- When displaying FULL HD images, live images will be displayed with the following interval.
 - When images are obtained from a recorder, encoder or camera other than ASR500, images on 4-/7-/9-/10-/13-/16-/25-/36-/49-/64-screen and on small areas of 3A-/3B-screen will be displayed with the refresh interval (*). (All images will be kept displayed for several seconds from the moment when the images are displayed.)
- When images are obtained from ASR500, images on 1-screen will be refreshed with the live rate specified on the recorder.
Images being displayed on 4-/7-/9-/10-/13-/16-/25-/36-/49-/64-screen and on small areas of 3A-/3B-screen will be refreshed every 1 second. When displaying images on a multi-screen, image refresh delay of 5 seconds or less may sometimes occur. In the time display, one second of time difference may occur depending on the timing of obtaining images.

2. When playing recorded images

- Displayed playback time may be fast for several seconds (*) when the following operations are performed while playing recorded MPEG-4 or H. 264 images.
 - When trying to display playback images in MPEG-4 or H. 264 format. (By switching camera channel, etc.)
 - When MPEG-4 or H.264 image is enlarged
(When operating to enlarge a paused recorded MPEG-4 image, image of several seconds later than the paused image may be enlarged.)
 - When the [PLAY] button is clicked again while playing MPEG-4 or H.264 images
- Playback may be performed in several seconds intervals (*) when the following operations are performed while playing MPEG-4 or H.264 images.
 - Reverse playback
 - Fast playback/Fast reverse playback
 - Reverse frame playbackExample: When "3 seconds" is selected for the refresh interval on the camera, MPEG-4 or H.264 images will be played in 3 seconds intervals.
- When two records are played sequentially, the last few frames of the former record and the first few frames of the next record may be displayed overlapped.
- When the [SKIP] button or the [REV SKIP] button is clicked, a skipped point may be a few seconds later (†) from a point to be skipped with the selected amount of time or from the first frame of the next record. Sometimes, playback may start from the beginning of the next record.

- When a black screen is being displayed, the following operations are inoperable.
 - Playback/Reverse playback
 - Fast playback/Fast reverse playback
 - Frame playback/Reverse frame playback
 - Skipping to the next/previous recorded image
 - Skipping to the point of the set amount of time forward/backward
 - Pause
- When playing images by designating time & date, playback may start from a point several seconds (†) after the designated time & date. Sometimes, playback may start from the beginning of the next record.
- The ON/OFF setting of AVMD information will be applied from the next image.
- When displaying SXVGA images, recorded images will be displayed with the following interval.
 - When images are obtained from a recorder, encoder or camera other than ASR500, images on 16-/25-/36-/49-/64-screen and on small areas of 7-/10-/13-screen will be displayed with the refresh interval (*). (All images will be kept displayed for several seconds from the moment when the images are displayed.)
 - When images are obtained from ASR500, images on 1-screen will be refreshed with the live rate specified on the recorder. Images being displayed on 4-/7-/9-/10-/13-/16-/25-/36-/49-/64-screen and on small areas of 3A-/3B-screen will be refreshed every 1 second. When displaying images on a multi-screen, image refresh delay of 5 seconds or less may sometimes occur. In the time display, one second of time difference may occur depending on the timing of obtaining images.
- When displaying FULL HD images, recorded images will be displayed with the following interval.
 - When images are obtained from a recorder, encoder or camera other than ASR500, images on 4-/7-/9-/10-/13-/16-/25-/36-/49-/64-screen and on small areas of 3A-/3B-screen will be displayed with the refresh interval (*). (All images will be kept displayed for several seconds from the moment when the images are displayed.)
 - When images are obtained from ASR500, images on 1-screen will be refreshed with the recording rate specified on the recorder. Images being displayed on 4-/7-/9-/10-/13-/16-/25-/36-/49-/64-screen and on small areas of 3A-/3B-screen will be refreshed every 1 second. When displaying images on a multi-screen, image refresh delay of 5 seconds or less may sometimes occur. In the time display, one second of time difference may occur depending on the timing of obtaining images.

3. When downloading recorded images

Download of recorded images may start from a point several seconds (†) after the designated start time. Set the time range for download longer than the refresh interval set on the camera.

Important:

- Time (seconds) and intervals with an asterisk (†) differ depending on the refresh interval set on the camera. (Valid entry range: Differs depending on the model number of the camera.)
 - To shorten time lag, set the refresh interval on the camera shorter. Refer to the operating instructions of the camera for how to configure the refresh interval.
 - When a removable HDD formatted on the 32-bit OS is connected to a PC whose OS is the 64-bit edition, it may fail to designate the removable HDD as a saving destination.
-

Restriction when using Smart Coding

There are following restrictions when "Smart Coding mode" is set to "ON" in the "Transmission priority" setting of the camera. Read the following before operating this software.

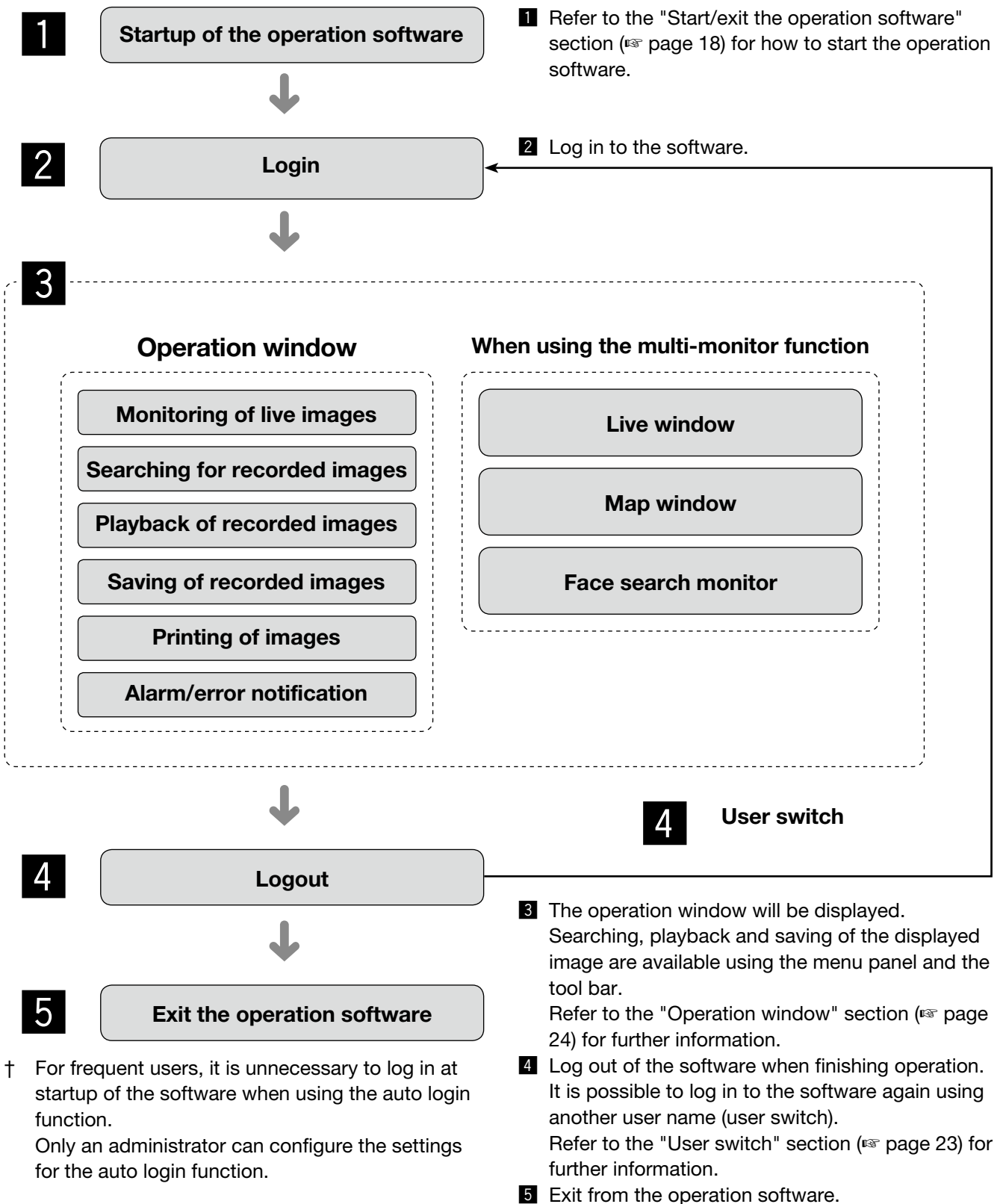
1. When displaying live images

- It may take 8 seconds at maximum for images to be displayed.
- In the sequence operation, the subsequent sequence may start without displaying video of the current sequence depending on the set interval.

2. When playing recorded images

- For playback operations such as date playback, jump, and skip, it may take time for images to be displayed. (8 seconds at maximum)
- Display intervals during the fast forward playback may become longer if compared with operation without using the smart coding. (For example, images will be forwarded 32 seconds at maximum in Step 2.)
- The images may be seen stopped for 8 seconds at maximum in the frame playback or reverse frame playback.
- In the alarm playback, alarm images may not be displayed during pre- or post-playback.
- The display speed may delay for 24 seconds at maximum during visibility enhancement.

Operation flow



† For frequent users, it is unnecessary to log in at startup of the software when using the auto login function. Only an administrator can configure the settings for the auto login function.

Note:

- When a message window is displayed by clicking the button on the window, refer to the "Displayed messages and solutions" section (☞ page 186) and follow the instructions.

Start/exit the operation software

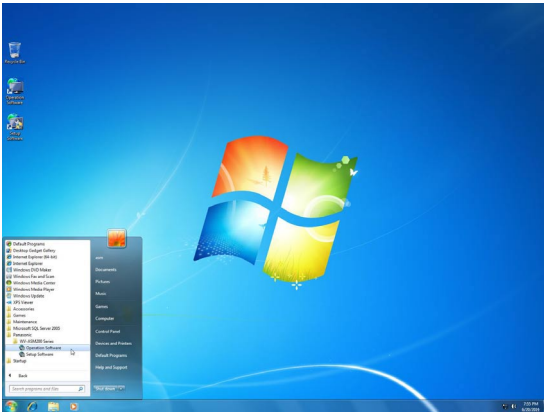
Start the operation software

Important:

- Registration of the license is required before using this software. This software will not work if the license is not registered.
- Register the license for the software after confirming that the network adapter of the PC is enabled.
- If the license has not been registered using the setup software, register it by following from step 2 to 5.

Step 1

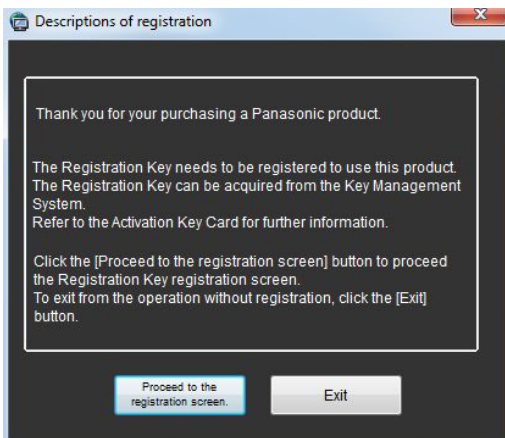
Select "Operation Software" from "start" menu ("Start" - "All Programs" - "Panasonic" - "WV-ASM200 Series" - "Operation Software") or double-click the "Operation Software" icon on the desktop to launch the operation software.



→ The explanation window for registration will be displayed.

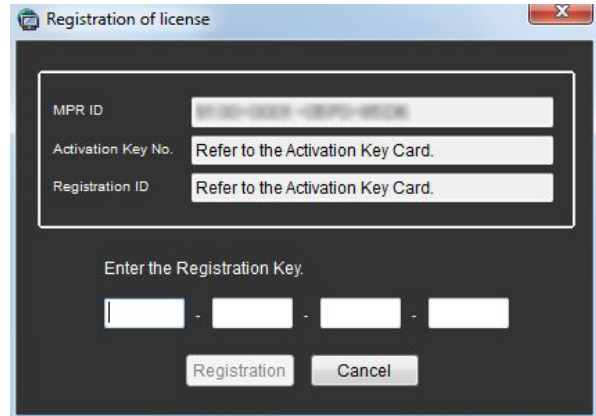
Step 2

After reading the message on the explanation window, click the [Proceed to the registration screen.] button.



Step 3

Enter the "Registration Key" obtained from the Key Management System.



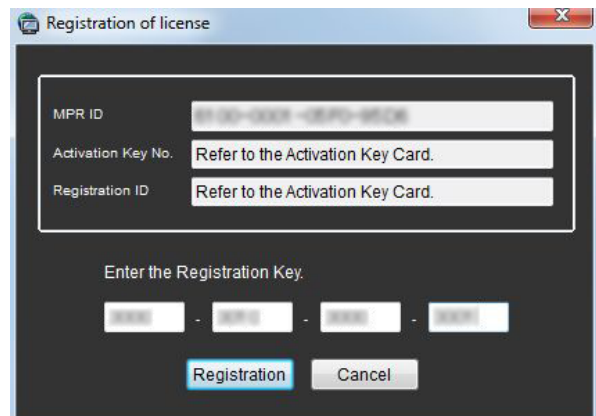
Important:

- The "Registration Key" can be used only on a PC that displays "MPR ID" (used to obtain the key) on its screen. It cannot be used on other PCs.

Step 4

Click the [Registration] button.

→ The confirmation window for registration will be displayed.



Important:

- It is impossible to register the "Registration Key" of the extension software (option).
- Be sure to perform the registration procedure on the PC in use.

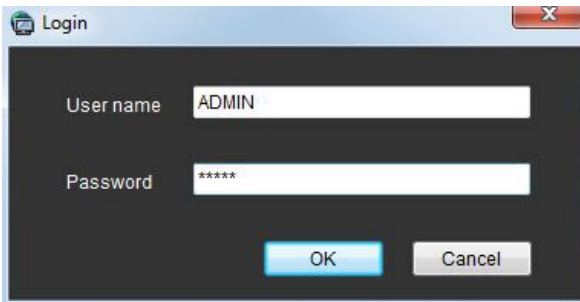
Step 5

Click the [OK] button.



Step 6

Enter the registered user name and password. Only an administrator is registered when operating the software just after the installation. Enter "ADMIN" for "User name" and "12345" for "Password" respectively.



Important:

- It is necessary to close the setup software to start the operation software. The operation software will not start unless the setup software is closed.
- To enhance the security, change the password for an administrator before running the software.
- It is recommended to change the password for the administrator periodically. Refer to the descriptions for how to change the password (page 22).

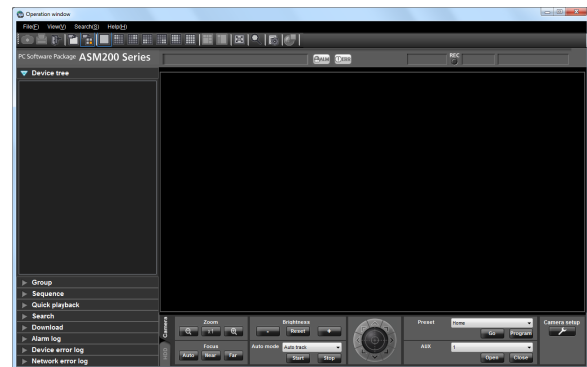
Note:

- It is possible to register a user as the auto login user when the same user name is used each time to log in to the software. Also, login by Single Sign-On function is available based on information of a Windows user who logged on to the domain in association with the Active Directory Server. The default setting of "User authentication" for each registered user is "ON" (required the user name and password entries). Only an administrator can configure the setting of "User authentication" on the setup software. Refer to the WV-ASM200 Setup Instructions (PDF) for further information.
- If Single Sign-On failed, the usual authentication window will be displayed after the error message.

Step 7

Click the [OK] button.

→ The operation window will be displayed.



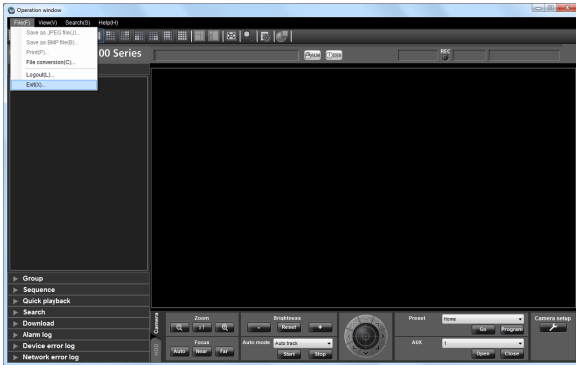
Note:

- Unless otherwise mentioned, the screenshots of the operation window is in the status before the license for the Extension Software WV-ASE202 is added. After the license is added, the icon display on the tool bar will be changed as shown in page 26.

Exit the operation software

Step 1

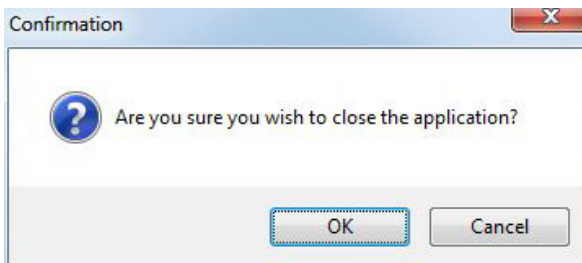
Select "Exit(X)..." from "File(F)" on the menu bar or click the [x] button at the top right of the operation window.



→ The confirmation window will be displayed.

Step 2

Click the [OK] button.



→ The operation software will be closed.

User management

Two types of users, the administrator and the registered users, can be managed with this software. Only an administrator can configure the settings of this software. When a registered user logged in to the software, only the available menus will be displayed according to the user level setting of this registered user. Only an administrator can configure the user level setting of the registered users. Refer to the WV-ASM200 Setup Instructions (PDF) for how to configure the user level setting.

Important:

- When using this software, apply the user authentication function of this software to manage users even though the recorders also have the function.
-

About the user level setting

It is possible to assign the user level to each user to restrict their operable functions. This software can assign one of five user levels (LV1 – LV5) to every user. When "LV1" is assigned to a user, this user can operate all functions of the software except configurations. An administrator can determine the operable functions for each user by assigning the user level "LV2" – "LV5".

The following functions can be restricted according to the user levels.

Default:

Function	LV1	LV2	LV3	LV4	LV5
Display the current settings	<input type="radio"/>				
Alarm reset/error reset	<input type="radio"/>				
Print/Save as a still picture	<input type="radio"/>	<input type="radio"/>			
File conversion	<input type="radio"/>	<input type="radio"/>			
Download	<input type="radio"/>	<input type="radio"/>			
Manual recording	<input type="radio"/>				
Recorder control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Preset position registration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Operation of SD memory card	<input type="radio"/>	<input type="radio"/>			
Camera control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mic setting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Audio (Transmission)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Display the alarm log	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Display the device error log	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Display the network error log	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Face registration ^{†1}	<input type="radio"/>				
Display alarm/Display face search result ^{†1}	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Delete face alarm ^{†1}	<input type="radio"/>	<input type="radio"/>			
Output a list of searched face alarms ^{†1}	<input type="radio"/>	<input type="radio"/>			
People Search ^{†2}	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Output People Search result in HTML file ^{†2}	<input type="radio"/>	<input type="radio"/>			
Visibility enhancement parameter setting ^{†3}	<input type="radio"/>				

†1 It will become available after the license for the WV-ASE231 is added.

†2 It will become available after the license for the WV-ASE231 is added and the people search server exists.

†3 It will become available after the license for the WV-ASE205 is added.

Password's validation period

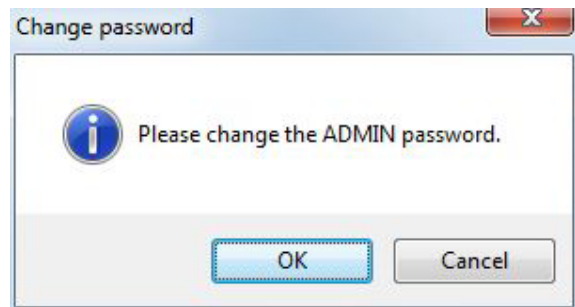
The password's validation period can be determined (31 days/92 days/184 days) by an administrator. When trying to log in after the set period passed, the message window saying "Please change the password." will be displayed.



Note:

- Even when the validation period has passed, the password will be authorized. However, this message window will be displayed each time the user tries to log in.

When this software is being operated without changing the password, the following message window saying "Please change the ADMIN password." will be displayed.

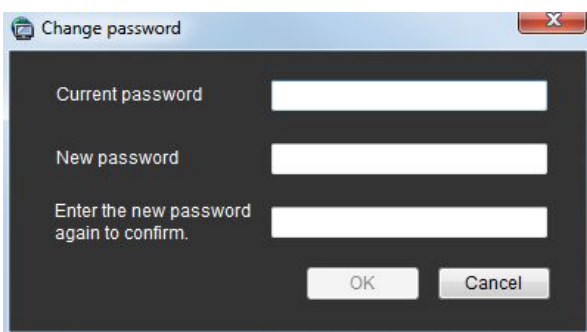


Change the password

To enhance the security, change the password when this message window is displayed.

Step 1

Click the [OK] button on the message window. The "Change password" window will be displayed.



■ **Current password**

Enter the current password. The entered password will be displayed as "*".

■ **New password**

Enter the new password. The entered password will be displayed as "*". Enter up to 4 - 8 alphanumeric characters.

■ **Enter the new password again to confirm.**

Enter the new password again. Enter the same password. The entered password will be displayed as "*".

■ **[OK] button**

Click this button to apply and save the new password. (The window will close.) The [OK] button cannot be clicked unless all entries are completed.

■ **[Cancel] button**

Click this button to cancel the entries. (The window will close.)

Step 2

Complete all of the entry fields on the "Change password" window, and then click the [OK] button. The new password will be applied and saved.

Important:

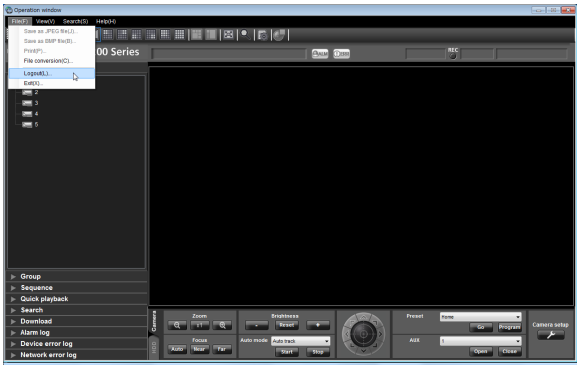
- Refer to the WV-ASM200 Setup Instructions (PDF) for how to change the password of the administrator.

User switch

It is possible to switch users.

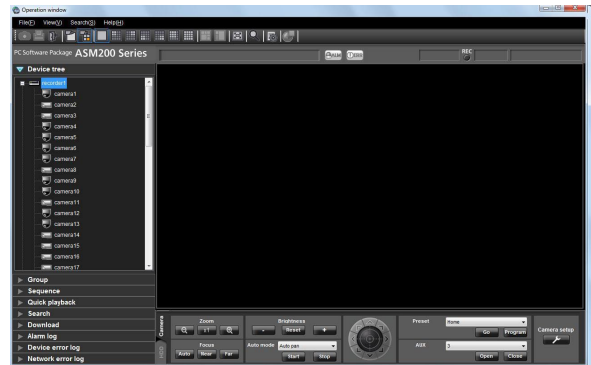
Step 1

Select "Logout(L)..." under "File(F)" on the menu bar or click the [Logout] icon on the tool bar.



Step 4

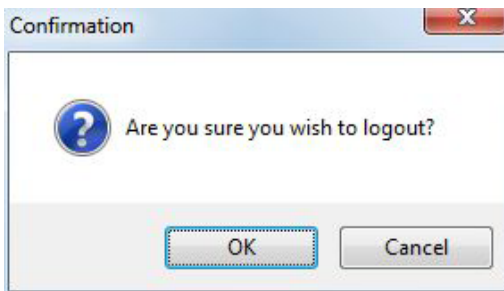
Click the [OK] button.
→ The operation window will be displayed.



→ The confirmation window will be displayed.

Step 2

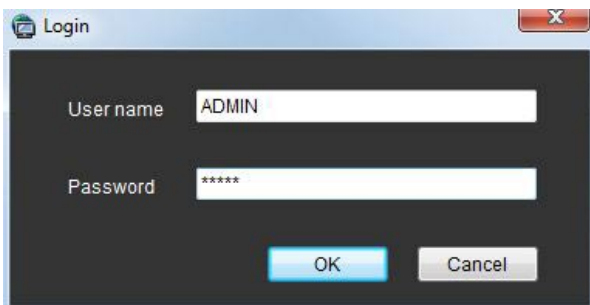
Click the [OK] button.



→ The "Login" window will be displayed.

Step 3

Enter the registered user name and password.

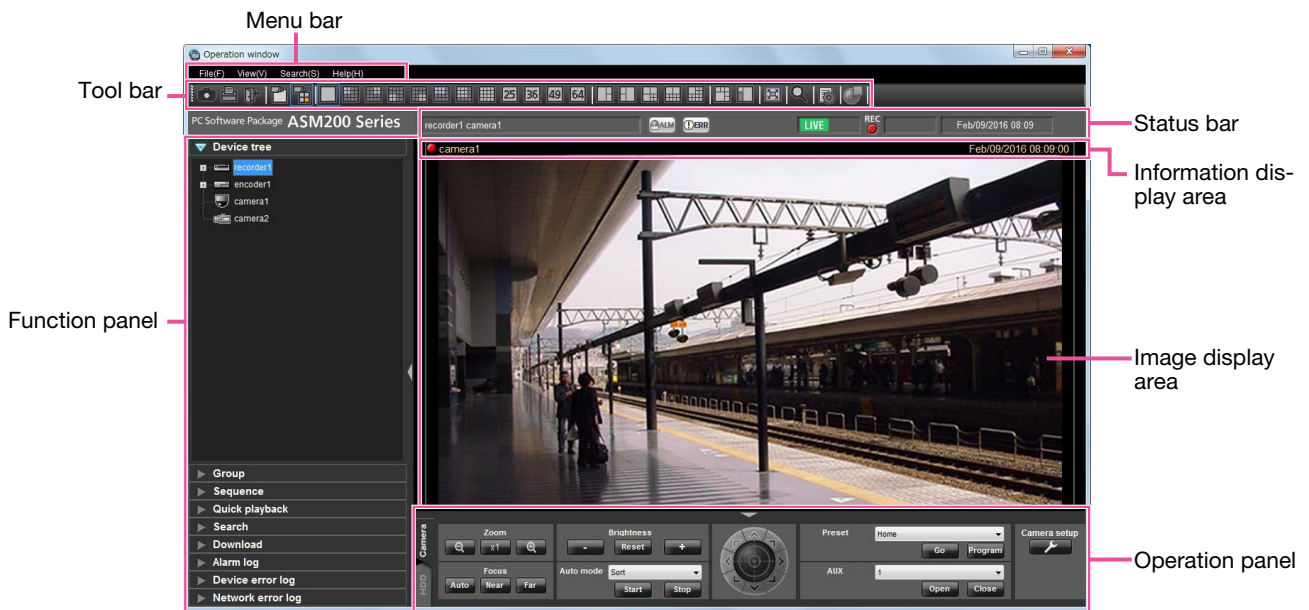


Operation window

The operation window will be displayed when logged in to the operation software. The following are descriptions about each item displayed on the operation window.

Note:

- The operation window display size can be changed between the range of 1280x800 (smallest) and 3840x3840 (largest) with the mouse operation. (When "Large (200%)" is selected for "Operation window display size", the available smallest size is 2560x1600.)
- The function panel and the image display area will become smaller/larger in accordance with the change of the operation window display size.
- Image distortion occurs during the change of the operation window display size.



■ Menu bar

The menu items are located on the menu bar. Refer to the descriptions about the "Menu bar" (page 25) for further information.

■ Tool bar

The shortcut icons of the menu items are located on the tool bar. Refer to the descriptions about the "Tool bar" (page 26) for further information.

■ Status bar

The following statuses will be displayed on the status bar.

- Display status (live/playback/SD memory data) of the images currently being displayed
- Playback speed of the images currently being played
- Recorder (encoder) title/camera title
- Recorder status (recording/copying/deleting of data)
- Alarm occurrence/error occurrence
- Presence or absence of SD memory data in the SD memory card of the camera
- Time & date

■ Function panel

The function panel is provided on the left of the operation window. When the desired function bar on the function panel is clicked, the respective function panel will be displayed. Refer to the "Function panel" section (page 30) for further information.

■ Image display area

Images will be displayed on the selected screen type (1-/3A-/3B-/4-/6-/7-/9-/10-/13-/16-/25-/36-/49-/64-screen). (The 25-/36-/49-/64-screen will become available after the license for the WV-ASE202 is added.) The screen type can be changed simply by clicking the shortcut icons on the tool bar.

When right-clicking on this area, the pop-up menu will be displayed. (Selection from the displayed pop-up menu is available only when right-clicking on a 1-screen.) Refer to the descriptions about the pop-up menu (page 32) for further information.

The descriptions of the alarm/error will be displayed in a pop-up window (notification window) on the operation window upon an alarm/error occurrence. Refer to the descriptions about the alarm/event notification window (page 166) for further information.

Refer to the descriptions about the "Status bar" (page 28) for further information.

■ Information display area

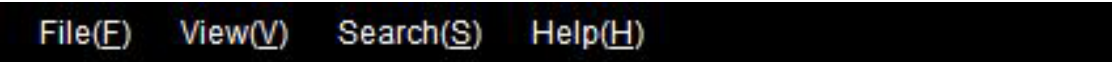
Information of the images currently displayed, such as time & date, camera title and the recording status, will be displayed in this area.

Refer to the "Information display area" section (☞ page 33) for further information.

■ Operation panel

The cameras and recorders are operable with this panel. Refer to the description about the "Camera operation panel" (☞ page 34) and about the "Playback operation panel" (☞ page 38) for further information.

Menu bar



■ File(F)

Contains the following menus; "Save a still picture", "Print", "File conversion", "Logout" and "Exit".

Note:

- "Save a still picture" and "Print" are also available from the pop-up menu displayed by right-clicking.

■ View(V)

Contains the following menus: "Function panel", "Operation panel", "Camera/time & date", "Camera selection", "Number of area", "Full screen", "Frame display with face", "Sound collection position", "Cropping frame", "Display AVMD information", "Live window", "Map window", and "Decoder control" (after the license for the WV-ASE204 is added).

Note:

- The AVMD information function will become available after the license for the WV-ASE231 is added.
- The AVMD information function is supported by some models only.
- AVMD information will be displayed only when displaying images on 1-screen.
- When "Frame display (only after determination)" is selected, AVMD frame (red frame) will be displayed after AVMD alarm is confirmed.
- When displaying images (MPEG-4) via ND300 or ND200, AVMD information will not be displayed.
- i-VMD information of the camera will also be displayed
- When displaying images via ND300, ND200, NV200, or NV300, i-VMD information will not be displayed.
- To display i-VMD information while displaying images via ND400, it is necessary to update the firmware of ND400 to V3.40 or later.
- The sound collection position will be displayed only when a network microphone is used. If this function is enabled, the sound collection position will be displayed while setting up other functions besides microphone. If this function is disabled, the sound collection position will be displayed only when setting up the microphone.

■ Search(S)

Contains the shortcut menu to open the "Search" window.

■ Help(H)

It is possible to indicate the version information and license registration information.

Tool bar

The following are the descriptions of icons located from the left to the right.



■ [Save a still picture] icon

Click this icon to save the image currently being displayed as a JPEG file.

■ [Print] icon

Click this icon to print the image currently being displayed.

■ [Logout] icon

Click this icon to log out of the software. The login window will be displayed when this icon is clicked.

■ [Display images on 1-screen] icon

When the device tree or the camera icon on the map is clicked, a live image on a 1-screen will be displayed.

■ [Display images on the selected area] icon

When the device tree or the camera icon on the map is clicked, live images will be displayed in the selected frame.

■ [1] icon

Click this icon to display images on a 1-screen.

■ [4A] icon

Click this icon to display images using 4 areas at the upper left of a 16-screen.

■ [4B] icon

Click this icon to display images using 4 areas at the upper right of a 16-screen.

■ [4C] icon

Click this icon to display images using 4 areas at the lower left of a 16-screen.

■ [4D] icon

Click this icon to display images using 4 areas at the lower right of a 16-screen.

■ [6] icon

Click this icon to display images using 6 areas at the upper left of a 16-screen.

■ [9] icon

Click this icon to display images using 9 areas at the upper left of a 16-screen.

■ [16] icon

Click this icon to make the image display area into a 16-screen.

■ [25] icon (Available after the license for the WV-ASE202 is added)

Click this icon to make the image display area into a 25-screen.

■ [36] icon (Available after the license for the WV-ASE202 is added)

Click this icon to make the image display area into a 36-screen.

■ [49] icon (Available after the license for the WV-ASE202 is added)

Click this icon to make the image display area into a 49-screen.

■ [64] icon (Available after the license for the WV-ASE202 is added)

Click this icon to make the image display area into a 64-screen.

■ [3A] icon

The image display area will be divided into 3 arranging the left half of the area larger.

■ [3B] icon

The image display area will be divided into 3 arranging the right half of the area larger.

■ [7] icon

Click this icon to make the image display area into a 7-screen.

■ [10] icon

Click this icon to make the image display area into a 10-screen.

■ [13] icon

Click this icon to make the image display area into a 13-screen.

■ [5 Cropping] icon

Click this icon to display the image display area with 5 cropping areas.

Note:

- The available screen pattern is 1-screen.
 - This function is available only with the cameras activating the cropping function (☞ page 66).
 - It is impossible to select [5 Cropping] icon only from the system controller WV-CU950.
-

■ [1 Cropping] icon

Click this button to display the image display area with 1 cropping areas.

Note:

- The available screen pattern is 1-screen.
 - This function is available only with the cameras activating the cropping function (☞ page 66).
 - It is impossible to select [1 Cropping] icon only from the system controller WV-CU950.
-

■ [Full screen] icon

Click this icon to display the image currently being displayed on a full screen. Refer to the "Monitor images on a full screen" (☞ page 62) for further information.

■ [Search] icon

Click this icon to display the "Search" window. Refer to the descriptions about the "Search window" (☞ page 45) for further information.

■ [Visibility Enhancement] icon (Available after the license for the WV-ASE205 is added)

The visibility enhancement window will be displayed.

■ [Face search] icon (Available after the license for the WV-ASE231 is added)

Click this icon to launch the face search monitor.

■ [File conversion] icon

The screen to be used to convert n3r files to playable files on the media player, etc. will be displayed. Refer to the "Convert a file to the standard format" section (☞ page 154) for further information.

■ Fisheye Control

Indicates the number icons on the fisheye control window for the positions displayed on the operation window.

Note:

- This is applied only to images on 1-/4-screen, on left area of 3A-screen, on right area of 3B-screen, and on large areas of 7-/10-/13-screen.
 - When "Fisheye" is selected for "Fisheye display menu", it is impossible to select "Fisheye Control".
 - This function is available only with the cameras activating the compensation function.
 - Depending on the position, it may be impossible to display in the center of the image even by dragging and dropping the number icon.
 - It is impossible to select "Fisheye Control" only from the system controller WV-CU950.
-

■ [Decoder control] icon

Click this icon to display the "Decoder control" window. Refer to the descriptions about the "Control a decoder" (☞ page 158) for further information.

Status bar



Important:

- Check if the model in use is compatible with each function.

■ Recorder title/camera title

Source (recorder (encoder) title and the camera title) of the image currently being displayed will be displayed in this area.

■ [ALM] button

The button will be used when the emergency recording is being performed or when an event occurred. When the button is clicked, the alarm action will be canceled.

Note:

- When the recorder in use is the ND300 (Version 4.69 or earlier) or the HD300, the error action also will be canceled.
- When the recorder in use is the ND300 or the HD300, the button will not be used even when the emergency recording is being performed.
- This button will not be displayed when using ASR500.

■ [ERR] button

The button will be used when an error occurred. When the button is clicked, the error action will be canceled.

Note:

- When the recorder in use is the ND300 (Version 4.69 or earlier) or the HD300, the alarm action also will be canceled.
- When the recorder in use is the WJ-HD300, the error action will not be canceled even when the button is clicked.
In this case, refer to the operating instructions of the recorder in use for how to cancel an error action.

■ [SD] button (Button to obtain the SD memory data)

When the SD memory card in the camera connected to the recorder contains recorded images, the letters "SD" on the [SD] button will be displayed in red. When the button is clicked, the recorded images on the SD memory card will be transferred to the recorder.


Important:

- When the recording rate for the SD memory recording is not set, the SD memory data obtain button will not be displayed. Refer to the operating instructions of the recorder in use for how to set the recording rate for the SD memory recording.
- The SD memory data cannot be obtained during the emergency recording. Refer to the operating instructions of the recorder in use for further information about the emergency recording.
- Depending on the recorder in use, all login users will be forcibly logged out and recording of images from all cameras currently being performed will stop when obtainment of the SD memory data starts.

Note:

- The letters "SD" on the [SD] button will be displayed in blue when there is no recorded image in the SD memory card.
- When the [SD] button is clicked while the letters "SD" are displayed in blue, this software will check the presence of recorded image on the SD memory card. Images saved on the SD memory card will be transmitted to the recorder depending on the model of the recorder in use.
- When the [SD] button is clicked while the letters "SD" are displayed in red, recorded images on the SD memory card will be transferred to the recorder (SD memory data).


■ [Mic input] button

Click this button to turn on/off the audio reception (from camera to PC). When  is displayed, audio will not be heard.


Note:

- When right-clicking on this button, the pop-up menu will be displayed. It is possible to change the volume level of audio reception by selecting "High", "Middle" or "Low" from the displayed pop-up menu.
- When displaying images on a multi-screen, audio will be transmitted to the camera which is the source of images displayed in the upper-left area


of the multi-screen. When another area is selected, audio associated with images displayed in the upper-left area of the multi-screen will still be heard, though this button will disappear.

- When audio is being transmitted to the same camera by another user, this button will turn to . In addition, audio from cameras will not be heard for some cameras.
- This button will not be displayed when using ASR500.

■ [Audio output] button

Click this button to turn on/off the audio transmission (from PC to camera). When  is displayed, audio will not be heard.

Note:

- Volume level of audio transmission cannot be changed. (Depending on the camera in use, volume level of audio transmission can be adjusted by configuring the settings of the camera.)
- When displaying images on a multi-screen, audio will be transmitted to the camera which is the source of images displayed in the upper-left area of the multi-screen. When another area is selected, audio will still be transmitted to the camera which is the source of images displayed in the upper-left area, though this button will disappear.
- When audio is being transmitted to the same camera by another user, this button will turn to . In addition, audio from the camera will not be heard.
- It is possible to transmit audio up to 5 minutes per transmission. When 5 minutes elapsed, the audio reception will be turned on automatically. To transmit audio again, click the [Audio transmission] button.

■ [LIVE]/[PLAY]/[SD PLAY]

Indicates the type (live/playback/SD memory data playback) of the images currently being displayed.

■ [Step 1] - [Step 7]

Indicates the playback speed. (): Smooth & fast playback mode

[Step 1]: Normal playback speed

[Step 2]: Approx.4x playback speed (Approx.2x playback speed)

[Step 3]: Approx.8x playback speed (Approx.4x playback speed)

[Step 4]: Approx.16x playback speed (Approx.8x playback speed)

[Step 5]: Approx.32x playback speed (Approx.16x playback speed)

[Step 6]: Approx.48x playback speed (Approx.32x playback speed)

[Step 7]: Approx.96x playback speed (Approx.64x playback speed)

Note:

- ASR500 plays recorded images in the high-speed playback smooth mode. The maximum playback speed using ASR500 is [Step 5].

■ REC indicator

This indicator will light red when the recording of the images currently selected is being performed.

Note:

- This indicator will not be displayed when using ASR500.


■ [COPY]/[DELETE]

[COPY]: Indicates that copying of image data is being performed.

[DELETE]: Indicates that deletion of image data is being performed.

■ Time & date

When displaying live images, the time & date of the selected device will be displayed. (For some devices, Time & date will not be displayed when displaying images from camera that is not registered in the recorder or when images are directly being received.) When displaying recorded images, the recording time & date will be displayed.

When "24h" is selected for "Time format" ( Setup Instructions (PDF)), the indications will not be displayed.

The time & date will be followed by an asterisk "*" when the daylight saving time is applied.

■ Buffering

Indicates that the images are being buffered during playback. When images are being buffered, playback will be paused. The playback will start when the buffering of images are completed.

Note:

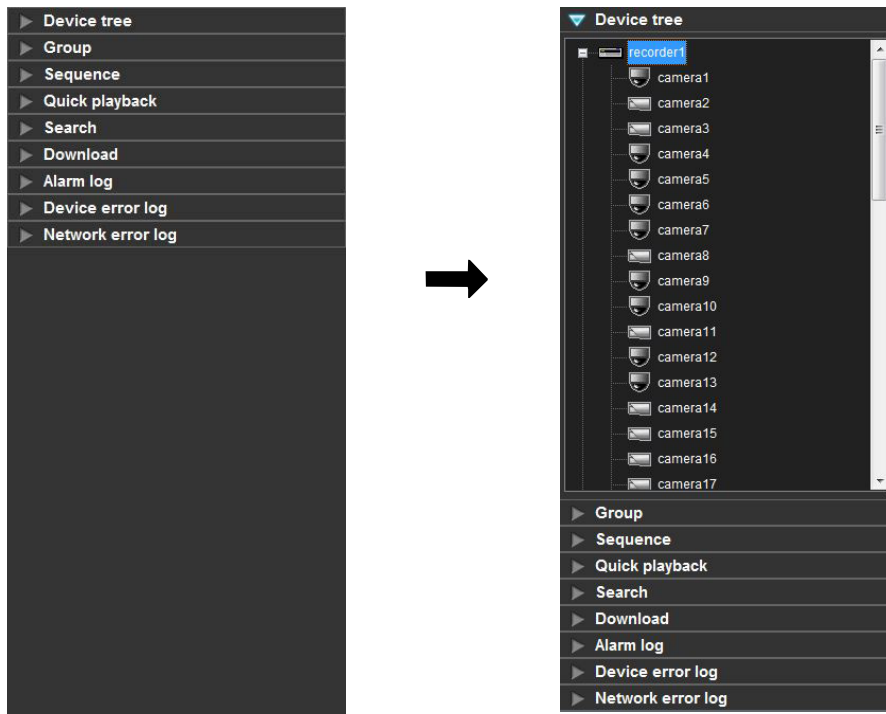
- This indicator will work only when the recorder in use is ASR500.

Function panel

The following are available using the function panel located at the left side of the operation window.

- Display the device tree (the icons of the connected devices in the tree view), and display images by clicking the desired camera icon
- Group display
- Sequence display
- Quick playback
- Search
- Download
- Display the alarm log
- Display the device error log
- Display the network error log

When one of the function bars is clicked, the respective function panel will open. (It is impossible to open two or more panels at the same time.)



Note:

- Refer to the following about the descriptions of how to operate each function panel.

"Device tree" panel	Confirm the registered devices (☞ page 55)
"Group" panel	Display images from the cameras registered as a group (group display) (☞ page 68)
"Sequence" panel	Display images from the cameras registered as a group sequentially (sequence display) (☞ page 69)
"Quick playback" panel	Play images using the "Quick playback" panel (☞ page 91)
"Search" panel	Play recorded images using the "Search" panel (☞ page 100)
"Download" panel	Download recorded images (☞ page 147)
"Alarm log" panel	"Alarm log" panel (☞ page 175)
"Device error log" panel	"Device error log" panel (☞ page 176)
"Network error log" panel	"Network error log" panel (☞ page 177)
- Device tree panel
For HD300 and HD600, all channels of the camera will be displayed in the tree regardless of the camera connection status.

- The device tree display can be changed to display sorted by group in each folder. The device tree on the search panel and the download panel will also change in the same manner. However, in case of the search panel and the download panel, only cameras registered in the recorder will be displayed. Refer to the WV-ASM200 Setup Instructions (PDF) for the setting to sort by group in each folder.
- When "ON" is for "Bar set up for panel display/hide", the panel bar will be displayed next to the function panel. When the [△] icon on the panel bar is clicked, the function panel can be displayed or hidden. Refer to the WV-ASM200 Setup Instructions (PDF) for information about "Bar set up for panel display/hide".

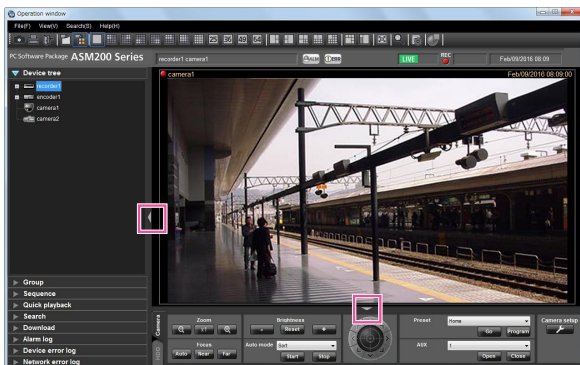
Layout of the operation window

It is possible to display or hide the operational panel and the function panel on the operation window by operating the panel bar or the menu bar. When the operation panel or the function panel is set to be hidden using the menu bar, the panel bar will also not be displayed.

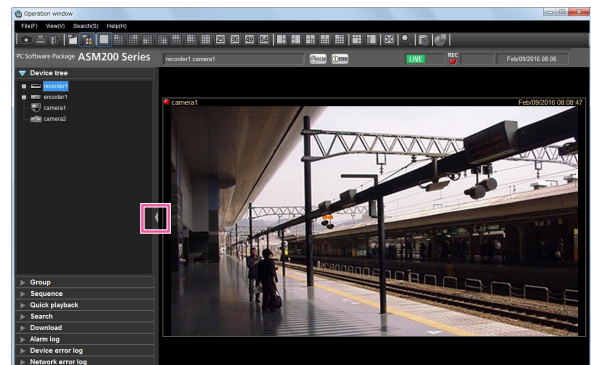
When the [△] icon on the panel bar is clicked, the operation panel or the function panel can be displayed or hidden.

Refer to the "Menu bar" section (page 25) for further information about the menu bar.

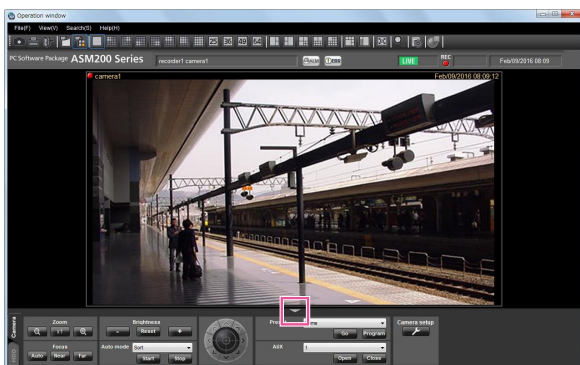
■ With the operation panel and the function panel



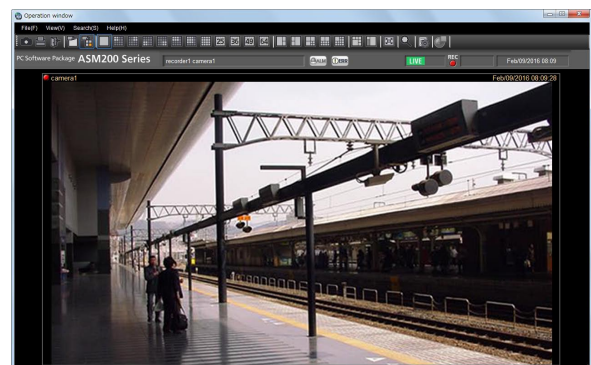
■ Without the operation panel



■ Without the function panel

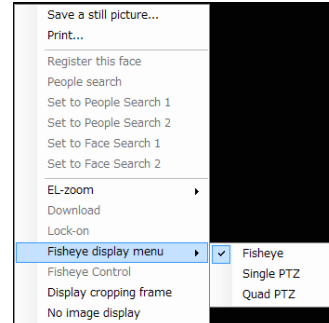
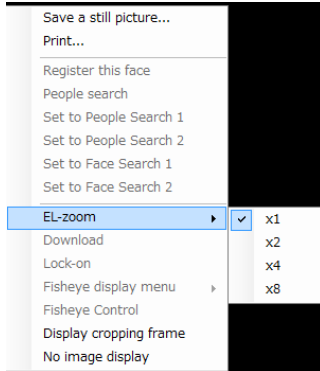


■ Without the operation panel and the function panel



Pop-up menu

When right-clicking on the image display area, the pop-up menu will be displayed. (Selection from the displayed pop-up menu is available only when right-clicking on a 1-screen.)



■ Save a still picture...†

If the license of WV-ASE231 is not registered, select this to save the currently displayed image as a JPEG file.

If the license of WV-ASE231 is registered, select this to save the currently displayed image as a BMP file.

Note:

- "Save a still picture..." on the pop-up menu will not be displayed when the user is restricted by the user level determined by the administrator to save an image as a still picture. Refer to the "About the user level setting" section (☞ page 21) for further information about the user level.

■ Print...†

Select this to print the image currently being displayed.

Note:

- Select this to print the image currently being displayed.
- "Print..." on the pop-up menu will not be displayed when the user is restricted by the user level determined by the administrator to print images. Refer to the "About the user level setting" section (☞ page 21) for further information about the user level.

■ Register this face (Available after the license for the WV-ASE231 is added.)

It is possible to newly/additionally register face thumbnail images from playback images on the recorder.

Refer to the "Register from recorded images" section (☞ page 135) and the "Additionally register from recorded images" section (☞ page 141).

■ Set to People Search 1/Set to People Search 2 (Available after the license for the WV-ASE231 is added and the people search server exists.)

Playback images from the recorder can be set to "Faces" of "People Search".

Refer to the "Search for designated people" section (☞ page 128) of "Search by face" for further information.

■ Set to Face Search 1/Set to face Search 2 (Available after the license for the WV-ASE231 is added.)

Playback images from the recorder can be set to "Faces" of "Face search".

Refer to the "Search by face" section (☞ page 116) of "Search Face" for further information.

■ EL-zoom†

Select this to enlarge the image currently being displayed. "x1", "x2", "x4", and "x8" are available.

Note:

- This button will not be used when using ASR500.

■ Download†

Select this to open the "Download" panel. Information (recorder title/camera title/time & date) of the recorded image currently being played will be displayed in the opened "Download" panel.

Note:

- "Download" on the pop-up menu will not be displayed when the user is restricted by the user level determined by the administrator to download recorded images. Refer to the "About the user level setting" section (☞ page 21) for further information about the user level.
- When displaying live images, it is impossible to select "Download" on the pop-up menu.

■ Lock-on†

Select this to start auto track for the object on the clicked point. Depending on the target object or surrounding environment, this function may not work correctly.

Note:

- This function is available only when the camera in use is WV-SC386, WV-SW396, WV-SW396A, WV-SC588/WV-SC588A, WV-SW598/WV-SW598A, WV-SW397/WV-SW397A/WV-SW397B or WV-SC387/WV-SC387A.

■ Fisheye display menu


Changes the calibration mode. It is possible to select "Fisheye", "Single PTZ" or "Quad PTZ" for the calibration mode.

Note:

- This is applied only to images on 1-/4-screen, on left area of 3A-screen, on right area of 3B-screen, and on large areas of 7-/10-/13-screen.
- This function is available only with the cameras activating the compensation function.

Information display area

Information of the images currently displayed, such as time & date, camera title and the recording status, will be displayed in this area.

 camera1

Jun/21/2011 04:19:19 PM

■ REC indicator

This indicator will light when the recording of the images currently selected are being performed.

- When "Recorder" is selected for "Live image source" of the Fisheye camera registered in the recorder, the image will be displayed at the default preset position of the camera.
- When "Single PTZ" or "Quad PTZ" is selected for "Fisheye display menu", "Auto pan", "Preset sequence" or "Preset position registration" is not available. In addition, "Adjust the brightness" is not available for recorded images.
- It is impossible to select "Fisheye display menu" only from the system controller WV-CU950.

■ Display cropping frame

Determine whether or not to display the cropping frame.

■ Fisheye Control

Indicates the number icons on the fisheye control window for the positions displayed on the operation window.

Note:

- This is applied only to images on 1-/4-screen, on left area of 3A-screen, on right area of 3B-screen, and on large areas of 7-/10-/13-screen.
- When "Fisheye" is selected for "Fisheye display menu", it is impossible to select "Fisheye Control".
- This function is available only with the cameras activating the compensation function.
- Depending on the position, it may be impossible to display in the center of the image even by dragging and dropping the number icon.
- It is impossible to select "Fisheye Control" only from the system controller WV-CU950.

■ No image display

Clear the currently displayed image.

Note:

- This indicator will not be displayed when using ASR500.

■ Camera name

The camera title as the source of the image currently being displayed will be displayed.

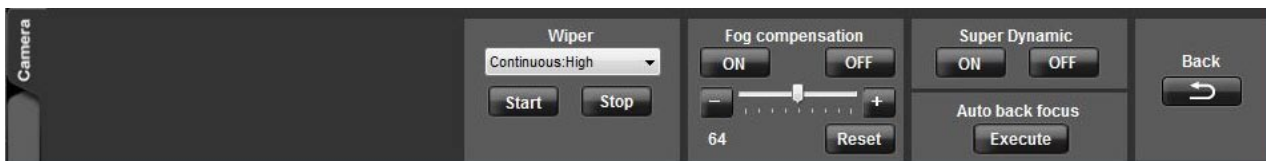
■ Time & date

Time & date will be displayed. For some devices, time & date will not be displayed when displaying images from a camera that is not registered in the recorder or when images are directly being received. The time & date will be followed by an asterisk "*" when the daylight saving time is applied.

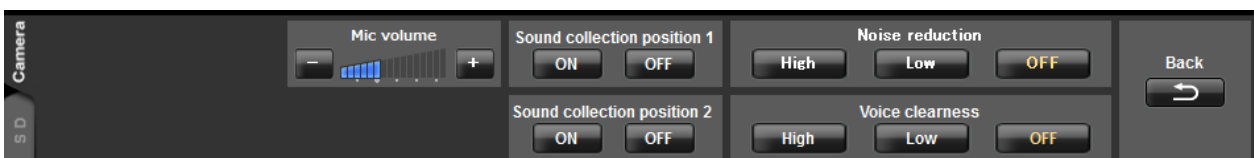
Camera operation panel



Display when the [Camera setup] button is clicked



Display when the [Mic setting] button is clicked



Important:

- Check if the model in use is compatible with each function.
-

Note:

- Operation of the camera operation panel works only for the camera respective the selected image.
 - The camera operation panel will not be displayed when the user is restricted by the user level determined by the administrator to operate the cameras.
-

■ Zoom

Zooming can be adjusted by clicking the [-] (wide) button or the [+] (tele) button. When clicking the [x1] button, the zoom ratio will be reset.

Note:

- Zooming is available using the wheel on the wheel mouse.
-

■ Focus

The auto focus function can be performed by clicking the [Auto] button. Focusing can be manually adjusted by clicking the [Near] button or the [Far] button.

■ Auto mode

Select the auto function from the following.

Auto track: The camera automatically tracks motion of the subject displayed in the image display area.

Auto pan: The camera automatically moves from the start point to the end point set in advance.

Preset sequence: The camera automatically moves to the preset positions in numerical order of the preset position numbers.

Sort: The camera automatically moves to the closest preset position from the current position.

Patrol1 - Patrol4: The camera automatically traces the route set in advance.

When the [Start] button is clicked, the selected auto function will start.

When the [Stop] button is clicked, the selected auto function will stop.

Note:

- The auto functions are available only when the camera in use has these functions. Refer to the operating instructions of the camera in use for further information about the auto function of the camera.
- While "Quad PTZ" is selected for the image capture mode of Fisheye cameras, the auto functions will be performed for the image displayed at the upper left area of the 4-screen. When performing the auto mode while "Cropping" is selected for the image capture mode of 7-series cameras, only CH1 among CH1 - CH4 will work.

■ Control pad

Clicking the buttons around the control pad can move (pan/tilt) a camera in the clicked direction. Clicking inside the control pad also can adjust the vertical/horizontal position (pan/tilt) of the displayed live images. Panning/tilting speed will be faster if a clicked point gets farther from the center point of the control pad.

Note:

- Panning and tilting are available only when the camera in use is a PTZ camera.
- Clicking a point on the image display area can move (pan/tilt) a camera in the clicked direction.

■ Brightness

Brightness can be adjusted by clicking the [-] (darker) button or the [+] (brighter) button.

It is possible to reset the set brightness by clicking the [Reset] button.

■ Preset

Select a preset number from the following.

Home/1 - 256

Click the [Go] button after selecting a preset number.

The camera will move to the selected preset position. When the [Program] button is clicked after selecting a preset number, the current position will be registered as the preset position of the selected preset position number.

Note:

- Preset position function is available only when the camera in use is a PTZ camera.
- It is impossible to register a position when "Home" is selected for the preset position number.
- It is possible to register the preset position only when the user is not restricted by the user level determined by the administrator to operate the cameras. Refer to the "About the user level setting" section (page 21) for further information about the user level.
- Refer to the operating instructions of the recorder and the camera in use for further information about the available preset position numbers.
- When executing the preset registration using a fisheye camera with the image capture size of "Quad PTZ", different action may be taken depending on the model of camera. Refer to the operating instructions of the devices for further information. When a 3M fisheye camera is used, the position of the camera from which images are displayed on the upper left screen of 4-screen will be registered. When a 9M fisheye camera is used, all of positions of the cameras from which images are displayed on 4-screen will be registered. The preset numbers will be handled in increments of 4. (Example) When an action is registered in preset number 2 (same action for preset number 1, 3 and 4), the action will be registered as the preset action of 1-4 (in order from the upper left screen).
- When performing the preset registration while "Cropping" is selected for the image capture mode of 7-series cameras, the position displayed on CH1 will be registered regardless of the currently displayed channel (among CH1 - CH4). Display images on CH1 when performing the preset registration.

■ AUX

Select an AUX OUT connector from the following. 1/2/3

When the [Open] button is clicked, the selected AUX OUT connector will be opened.

When the [Close] button is clicked, the selected AUX OUT connector will be closed.

■ Camera setup

Click this button to move to the panel to configure the settings for the camera.

■ Mic setting

Click this button to move to the panel to configure the settings for the microphone.

■ Super Dynamic

Determine whether to use or not use the Super Dynamic (SD) function of the camera.

ON: Use the Super Dynamic function.

OFF: Not to use the Super Dynamic function.

Note:

- Cameras supporting the Super Dynamic function or Wide dynamic range (WDR) function are compatible with this setting.
- The Super Dynamic function is available only while images are being displayed directly from the camera when a recorder is registered.

■ Auto back focus

When the [Execute] button is clicked, the auto back focus function will be activated to adjust the back focus automatically according to the photographic subject at the center of the screen.

Note:

- Cameras supporting the auto back focus function are compatible with this setting.
- The auto back focus function is available only while images are being displayed directly from the camera when a recorder is registered.

■ Fog compensation

Determine whether to use or not use the fog compensation function of the camera.

ON: Use the fog compensation function.

OFF: Not to use the fog compensation function.

+/-: Adjusts the fog compensation level. When the level indicator is moved in the "+" direction, the compensation level will be increased. When the level indicator is moved in the "-" direction, the compensation level will be decreased.

Reset: Click this button to reset the fog compensation level to the default.

Note:

- Cameras supporting the fog compensation function are compatible with this setting.
- The fog compensation function is available only while images are being displayed directly from the camera when a recorder is registered.

■ Privacy

Privacy mode allows you to protect your privacy by hiding the lens inside the camera, preventing camera images from being seen.

ON: Use the privacy mode.

OFF: Not use the privacy mode.

Note:

- The privacy mode is available only when using WV-SF448.
- The privacy mode is supported only when the camera direct reception is selected for the recorder registration.

■ Wiper

Controls the washer and wiper available with WV-SUD638 (scheduled to be released in September 2016†1).

Continuous:High: Wipes the front cover at a fast interval.

Continuous:Low: Wipes the front cover at a slow interval.

1shot: Wipes the front cover a certain times.

Washer: Applies a preset action of the washer and wiper. Refer to the operating instructions of WV-SUD638 for further information.

When the [Start] button is clicked, the selected action will start.

When the [Stop] button is clicked, the action will stop.

†1: As of July 2016

Note:

- This item will be displayed only when WV-SUD638 is in use.
- The following operations are not available during the washer is in action.
 - The start and stop operations of the wiper
 - Pan/ tilt/ zoom/ focus control
 - The start operation of "Auto mode"
 - The move operation ([Go]) of "Preset"
- The washer action needs to be set by the camera. Refer to the operating instructions of WV-SUD638 for further information.

■ Mic volume

Changes the volume of the microphone.

+: Increases the audio volume.

-: Decreases the audio volume.

Note:



- The greater volume has lower audio quality. Set the volume as low as possible.
 - If audio volume is too small or its quality is low, the audio sensitivity of the network microphone may not be set appropriately. Check and change the setting as required.
-

■ Sound collection position 1, Sound collection position 2

Sets up where to pick up the sound (sound collection position).

ON: Enables sound collection position setting.

OFF: Disables sound collection position setting.

When "ON" is selected, the sound collection position marker   will be displayed and audio will be collected in the direction of the marker.

It is possible to move the sound collection position by dragging the sound collection position marker.

■ Noise reduction

Selects the noise reduction level for the microphone.

High: High level noise reduction.

Low: Regular noise reduction.

OFF: Disables noise reduction.

Note:

- When "High" is selected, the noise will be reduced comparing to "Low". However the audibility may drop due to sound strain. Select the level according to the audibility.
-

■ Voice clearness

Selects the audio compensation level for the microphone in order to make better sound.

High: High level compensation.

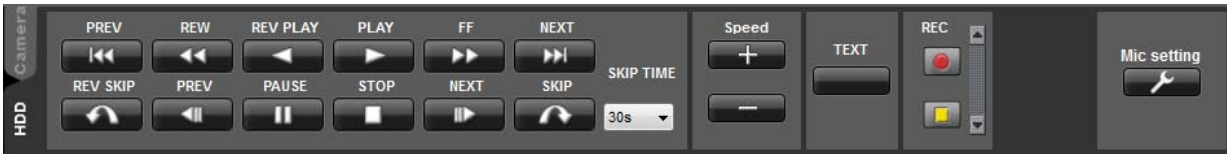
Low: Regular compensation.

OFF: Disables compensation.

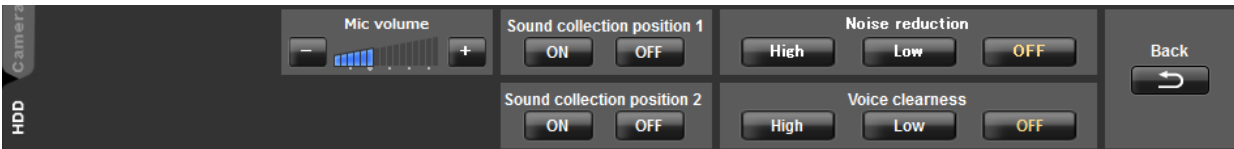
■ Back

Click this button to return to the camera operation panel.

Playback operation panel



Display when the [Mic setting] button is clicked



Important:

- Check if the model in use is compatible with each function.

Note:

- The playback operation panel will not be displayed when the user is restricted by the user level determined by the administrator to play recorded images. Refer to the "About the user level setting" section (page 21) for further information about the user level.
- The playback operation panel will not be displayed when displaying images from a camera that is not registered in the recorder.
- When displaying images on a multi-screen, images displayed in all areas of a multi-screen will be controlled simultaneously using the playback operation panel.

■ **[PREV RECORD] button**

Playback will start after skipping to the previous recorded image.

■ **[REW] button**

Fast reverse playback will be performed. Playback speed for fast reverse playback will be changed in the following order each time this button is clicked: Step 2 (Approx. 4x) → Step 3 (Approx. 8x) → Step 4 (Approx. 16x) → Step 5 (Approx. 32x) → Step 6 (Approx. 48x) → Step 7 (Approx. 96x)

Note:

- When fast reverse playback is performed while playing images on the HD600, playback speed will be changed in the following order: Step 1 → Step 2 → Step 3...
- When using ASR500, the maximum playback speed is [Step 5].

■ **[REV PLAY] button**

Reverse playback of a recorded image will be performed. When this button is clicked during fast playback or fast reverse playback, reverse playback at normal speed will start.

Note:

- When playing MPEG-4 or H.264 images, some frames of recorded images may not be displayed. Reverse playback will be performed with the set refresh interval of the camera.

■ **[PLAY] button**

Playback of a recorded image will be performed. When this button is clicked during fast playback or fast reverse playback, playback at normal speed will start.

■ **[FF] button**

Fast playback will be performed. Playback speed for fast playback will be changed in the following order each time this button is clicked: Step 2 (Approx. 4x) → Step 3 (Approx. 8x) → Step 4 (Approx. 16x) → Step 5 (Approx. 32x) → Step 6 (Approx. 48x) → Step 7 (Approx. 96x)

Note:

- In the smooth & fast playback mode, playback speed will be changed in the following order: Step 2 (Approx. 2x) → Step 3 (Approx. 4x) → Step 4 (Approx. 8x) → Step 5 (Approx. 16x) → Step 6 (Approx. 32x) → Step 7 (Approx. 64x)

- The smooth & fast playback mode is available only when the firmware of the ND400 is Version 2.5 or later. When the firmware of the ND400 is earlier or another recorder is used, frames will be skipped even in the smooth & fast playback mode.
- When using ASR500, the maximum playback speed is [Step 5].

■ [NEXT RECORD] button

Playback will start after skipping to the next recorded image.

When this button is clicked while playing the latest recorded image, the current playback will continue.

■ [REV SKIP] button

Playback will start after skipping to the point of the set amount of time backward.

Note:

- This button will not work when the playback point is at the start point or the end point of the recorded images.
- This button may sometimes not work when the time & date of the recorded images is around the time when shifting to daylight saving time.
- When clicking this button while playing MPEG-4 or H. 264 images, a skipped point may be a few seconds later from a point to be skipped with the selected amount of time.

■ [PREV IMAGE] button

The previous frame will be displayed when this button is clicked during pausing.

Note:

- When playing MPEG-4 or H.264 images, some frames of recorded images may not be displayed. Reverse frame by frame playback will be performed with the set refresh interval of the camera.

■ [PAUSE] button

Playback will stop when this button is clicked during playback. Playback will resume when this button is clicked during pausing.

■ [STOP] button

Playback will stop and live images will be displayed.

■ [NEXT IMAGE] button

The next frame will be displayed when this button is clicked during pausing.

■ [SKIP] button

Playback will start after skipping to the point of the set amount of time forward.

Note:

- This button will not work when the playback point is at the start point or the end point of the recorded images.
- This button may sometimes not work when the time & date of the recorded images is around the time when shifting to daylight saving time.
- When clicking this button while playing MPEG-4 or H. 264 images, a skipped point may be a few seconds later from a point to be skipped with the selected amount of time.

■ SKIP TIME

Select an amount of time to skip from the following. 30s/1min/5min/10min/30min/60min

■ Speed

Click the [-] button or the [+] button while displaying playback recorded images on the WJ-HD300 on a 1-screen to adjust the image refresh intervals of playback images.

When the [-] button is clicked, the image refresh intervals will become longer. When the [+] button is clicked, the image refresh intervals will become shorter.

■ [TEXT] button

When playing recorded images on a 1-screen, text information can be added. The "Edit text" window will be displayed when this button is clicked during pausing playback. Refer to page 153 for further information about the "Edit text" window.

Note:

- This function is available only when the recorder in use is the WJ-ND200, WJ-ND300 or the WJ-HD300.

■ [REC START]/[REC STOP] button

Manual recording will start or stop.

Note:

- This function is not supported by NV200 and NV300.

■ [Mic setting] button

Click this button to move to the panel to configure the settings for the microphone. Refer to the "Camera operation panel" section (☞ page 34) for further information about the buttons on the camera operation panel.

Note:

- This button will be displayed when a linked camera is in use.
-

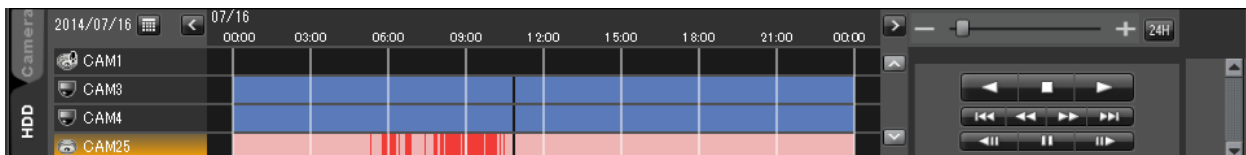
Timeline playback operation panel

Important:

- The timeline function is not available on HD300 and the cameras not registered in the recorder.

Note:

- The timeline playback operation panel will be displayed when "ON" is selected for "Timeline display" on the setup software. Refer to the WV-ASM200 Setup Instructions (PDF) for further information.
- Timeline will not be displayed if it is out of the period specified on "Number of acquired days" on the setup software. Refer to the WV-ASM200 Setup Instructions (PDF) for further information.
- Make sure that "Master" is set for "Timeline DB" on the setup software on the PC in use. When "Slave" is set for "Timeline DB", make sure that an address is specified in "Master Address". Refer to the WV-ASM200 Setup Instructions (PDF) for further information.
- The timeline playback operation panel will not be displayed when the user is restricted by the user level determined by the administrator to play recorded images.
- Images from cameras for which the timeline can be displayed are up to 16 areas on the upper left side of the multi-screen.
- On the timeline playback operation panel, the SKIP button, the REV SKIP button, the speed buttons (– and +) and the TEXT button will not be displayed.
When operation of the buttons above is needed, select "OFF" for "Timeline display" on the setup software first and then operate the playback operation panel again. Refer to the WV-ASM200 Setup Instructions (PDF) for further information.
- Face matching alarm can be displayed on the timeline of only the PC that has received the alarm.
- Depending on the status of the recorder, the timeline may have cut line even the recorded images exist. The timeline bar is just an indication and is not completely in accord with the recorded images.



■ Time & date

Time and date indicated by timeline will be displayed. The calendar will be displayed by clicking . When time and date are selected, timeline of the designated time and date will be displayed.

■ Change time axis button () ()

Timeline of the past will be displayed by clicking .
Timeline of the future will be displayed by clicking .

■ Change time axis scale slider

Perform enlargement display or reduction display of the time axis by operating position of the slider. When the slider is moved to the [+] direction, the time axis display will be enlarged in order. When the slider is moved to the [-] direction, the time axis display will be reduced in order.

■ [24H] button

By clicking this button, the time axis will be displayed in 24-hour format.

■ Timeline bar



Camera title and recording/event information of the camera from which images are currently being displayed will be displayed.

When double-clicked on the designated timeline, playback will start from the clicked point.

Color coding of the timeline bar is as follows:

	Site alarm
	Terminal alarm, command alarm, VMD, video loss, emergency
	Manual recording
	Schedule recording
	Face matching alarm
No color	No recording/event data

■ Timeline display change button () ()

By clicking  or , it is possible to change the camera for which timeline is to be displayed.

■ Timeline seek bar

By operating the seek bar, it is possible to start playback from a desired time. The seek bar will automatically be updated during playback according to the status.

■ REV PLAY button ()

Reverse playback of a recorded image will be performed.

When this button is clicked during fast playback or fast reverse playback, reverse playback at normal speed will start.

Note:

- When playing MPEG-4 or H.264 images, some frames of recorded images may not be displayed. Reverse playback will be performed with the set refresh interval of the camera.

■ STOP button ()

Playback will stop and live images will be displayed.

■ PLAY button ()

Starts playback from the point designated by the timeline seek bar.

When this button is clicked during fast playback or fast reverse playback, playback at normal speed will start.

■ PREV RECORD button ()

Playback will start after skipping to the previous recorded image.

■ REW button ()

Playback speed for fast reverse playback will be changed in the following order each time this button is clicked:

Step 2 (Approx. 4x) → Step 3 (Approx. 8x) →
Step 4 (Approx. 16x) → Step 5 (Approx. 32x) →
Step 6 (Approx. 48x) → Step 7 (Approx. 96x)

Note:

- When fast reverse playback is performed while playing images on the HD600, playback speed will be changed in the following order:
Step 1 (1x) → Step 2 → Step 3...

■ FF button ()

Playback speed for fast playback will be changed in the following order each time this button is clicked:

Step 2 (Approx. 4x) → Step 3 (Approx. 8x) →
Step 4 (Approx. 16x) → Step 5 (Approx. 32x) →
Step 6 (Approx. 48x) → Step 7 (Approx. 96x)

Note:

- In the smooth & fast playback mode, playback speed will be changed in the following order:
Step 2 (Approx. 2x) → Step 3 (Approx. 4x) →
Step 4 (Approx. 8x) → Step 5 (Approx. 16x) →
Step 6 (Approx. 32x) → Step 7 (Approx. 64x)
- The smooth & fast playback mode is available only when the firmware of the ND400 is Version 2.5 or later. When the firmware of ND400 is use is 2.3 or earlier, or another recorder is used, frames will be skipped even in the smooth & fast playback mode.

■ NEXT RECORD button ()

Playback will start after skipping to the next recorded image. When there is no next/previous recorded image to be skipped to, the current playback will continue.

■ PREV IMAGE button ()

The previous frame will be displayed when this button is clicked during pausing.

Note:

- When playing MPEG-4 or H.264 images, some frames of recorded images may not be displayed. Reverse frame by frame playback will be performed with the set refresh interval of the camera.

■ PAUSE button ()

Playback will stop when this button is clicked during playback. Playback will resume when this button is clicked during pausing.

■ NEXT IMAGE button ()

The next frame will be displayed when this button is clicked during pausing.


■ REC START/REC STOP button () ()

Manual recording will start or stop.

Note:

- This function is not supported by NV200 and NV300.

■ Mic setting button ()

Click this button to move to the panel to configure the settings for the microphone. Refer to the "Camera operation panel" section ( page 34) for further information about the buttons on the camera operation panel.

Note:

- This button will be displayed when a linked camera is in use.
-

SD operation panel



Note:

- The SD operation panel will not be displayed when the user is restricted by the user level determined by the administrator to operate the SD memory card.
 - The SD operation panel will not be displayed when displaying images from a camera that is registered in the recorder.
 - The SD operation panel will not be displayed when displaying images from WV-NP244, WV-NP1000/ NP1004, WV-NS202, WV-NS202A, WV-NF284, WV-NW484, WV-NS950/NS954, WV-NW960/NW964, WV-NP304, WV-NF302.
 - The playback of recorded images are not available with WV-NP502 and WV-NW502.
-

■ [PREV] button

Playback will start after skipping to the previous recorded image.

■ [PLAY] button

Playback of a recorded image will be performed. When this button is clicked during fast playback, playback at normal speed will start.

■ [FF] button

Each time the button is clicked, the playback speed will change.

Note:

- The maximum speed of fast playback varies depending on the "Bit rate" setting under "H.264 image recording" of "SD memory card".
 - Playback images during fast playback may not be displayed smoothly depending on the photographic subject or the settings.
-

■ [NEXT] button

Playback will start after skipping to the next recorded image.

When there is no next/previous recorded image to be skipped to, the current playback will continue.

■ [REV SKIP] button

Playback will start after skipping to the point of the set amount of time backward.

■ [PAUSE] button

Playback will stop when this button is clicked during playback.

■ [STOP] button

Playback will stop and live images will be displayed.

■ [SKIP] button

Playback will start after skipping to the point of the set amount of time.

Note:

- This button will not work when the playback point is at the start point or the end point of the recorded images.
 - A skipped point may be a few seconds later from a point to be skipped with the selected amount of time.
-

■ SKIP TIME

Select an amount of time to skip from the following.
30s/1min/5min/10min/30min/60min

■ [REC START]/[REC STOP] button

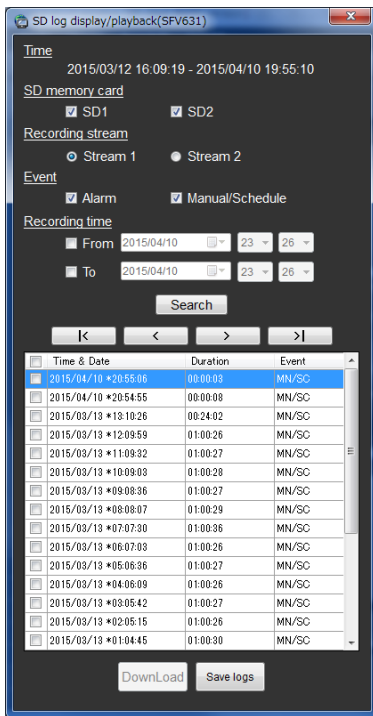
Manual recording onto the SD memory card will start or stop.

Note:

- This button is operable only when "Manual" is selected for "Save trigger" under "JPEG/H.264" of "SD memory card".
-

■ [List/Play] button

When this button is clicked, the "SD log display/playback" window will be displayed in a newly opened window.



Set the display condition ("SD memory card", "Recording stream", "Event", "Recording time") in the "SD log display/playback" window, and click the [Search] button.

→ The event list according to the selected condition will be displayed.

Note:

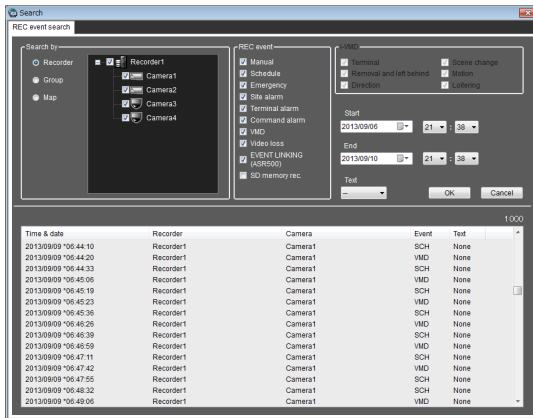
- When "SD log display/playback" window is displayed, the event lists "Alarm" and "Manual/Schedule" will be displayed.
-

Search window

When "Search(S)..." under "Search(S)" on the menu bar is selected or the [Search] icon on the tool bar is clicked, another window will open and the "Search" window will be displayed. The search function consists of "REC event search" and "VMD search".

REC event search tab

This tab searches images from the recorded images of the recorder by specifying search criteria such as a REC event.



■ Search by

Select the search target from the following.

Recorder: Select recorders to be searched. When "Recorder" is selected, the recorders will be displayed in the tree view. Select the recorders and the cameras to be searched by checking the checkbox.

Group: Select the groups to be searched. When "Group" is selected, the group list will be displayed. Select the groups to be searched by checking the checkbox.

Map: Select the maps to be searched. When "Map" is selected, the map list will be displayed. Select the maps to be searched by checking the checkbox.

■ REC event

Select the recording event type to be searched.

Manual: Select to search for images recorded by manual recording.

Schedule: Select to search for images recorded by the schedule recording.

Emergency: Select to search for images recorded by the emergency recording.

Site alarm: Select to search for images recorded upon the site alarm occurrence.

Terminal alarm: Select to search for images recorded upon the terminal alarm occurrence.

Command alarm: Select to search for images recorded upon the command alarm occurrence.

VMD: Select to search for images recorded upon the video motion detection.

Video loss: Select to search for images recorded upon the video signal loss.

SD memory rec.: Select to search for SD memory data.

EVENT LINKING (ASR500): Search images recorded by the event linking.

Note:

- "SD memory rec." is unavailable to select together with other recording event types. To search for the SD memory data, select "SD memory" alone.

■ i-VMD

Select the i-VMD type to be searched.

Terminal alarm: Select to search for images recorded upon the terminal alarm occurrence.

Removal and left behind: Select to search for images recorded upon the detection relating to removal and left behind.

Direction: Select to search for images recorded upon the detection relating to direction.

Scene change: Select to search for images recorded upon the detection relating to scene change.

Motion: Select to search for images recorded upon the detection relating to motion.

Loitering: Select to search for images recorded upon the detection relating to loitering.

Note:

- i-VMD search is available only when HD600 is selected for the search target.

■ Text

It is possible to search for recorded images only with or without text information.

Select "Added" or "None".

When "--" is selected, images will be searched regardless of with or without text information.

■ Start

Select the start time between "Jan/01/2008" and "Dec/31/2034". Select a number for hour from "AM12" - "PM11". Select a number for minute from "00" - "59".

■ End

Select the end time between "Jan/01/2008" and "Dec/31/2034". Select a number for hour from "AM12" - "PM11". Select a number for minute from "00" - "59".

Note:

- When the software in use is European specification, select the start time and the end time from the following.
Date: Between "01/01/2008" and "31/12/2034"
Hour: Between "0" and "23"
Minute: Between "00" and "59" (1 minute step)

■ [OK] button

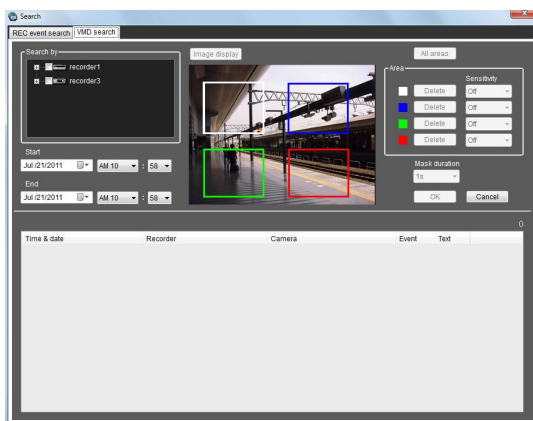
Click this button to start searching.

[VMD search] tab

This tab searches for times and dates of the images containing a motion from the recorded images of the recorder.

This function is available only with ND400, HD600, NV200 or NV300.

If ND400, HD600, NV200 or NV300 is registered, the VMD search tab will be displayed.



■ Search by

Select a recorder and a camera to be searched.

■ Start

Select the start time between "Jan/01/2008" and "Dec/31/2034". Select a number for hour from "AM12" - "PM11". Select a number for minute from "00" - "59".

■ [Cancel] button

Click this button to cancel the edited search conditions and close the "Search" window.

■ Search result number

Search result number will be displayed.

■ Search result list

Search result will be displayed in list form. When a result is clicked, the "Search" window will close and the selected image will be displayed on a 1-screen. When playback of the selected result starts, the descriptions of the selected result will be displayed in the search panel of the operation window.

Note:

- No image will be displayed when search result number is "0".

■ End

Select the end time between "Jan/01/2008" and "Dec/31/2034". Select a number for hour from "AM12" - "PM11". Select a number for minute from "00" - "59".

Note:

- When the software in use is European specification, select the start time and the end time from the following.
Date: Between "01/01/2008" and "31/12/2034"
Hour: Between "0" and "23"
Minute: Between "00" and "59" (1 minute step)

■ [Image display] button

Import the image of the start time & date from the recorder.

■ Image area

Display the images obtained from the recorder.
The areas to be searched for are specified by dragging in the image area. Up to 4 areas can be specified.

■ [All areas] button

Select all the areas to be searched for.

■ [Delete]

Delete the same colored areas.

■ Sensitivity

Select the sensitivity for each area from the following.
Off: Does not detect the motion in this area.
Low: Low sensitivity
Mid: Standard sensitivity
High: High sensitivity

Note:

- Selection of sensitivity is available only when HD600 is selected for the search target.
-

■ Mask duration

Select the duration to mask detection in the same area from the following.

- When the recorder in use is the HD600:
1s/1min/60min/24h
- When the recorder in use is NV200 or NV300:
1s/5s/10s/30s/1min/5min/10min

Note:

- Selection of mask duration is available only when HD600, NV200 or NV300 is selected for the search target.
-

■ [OK] button

Click this button to start searching.

■ [Cancel] button

Click this button to cancel the edited search conditions and close the "Search" window.

■ Search result number

Search result number will be displayed.

■ Search result list

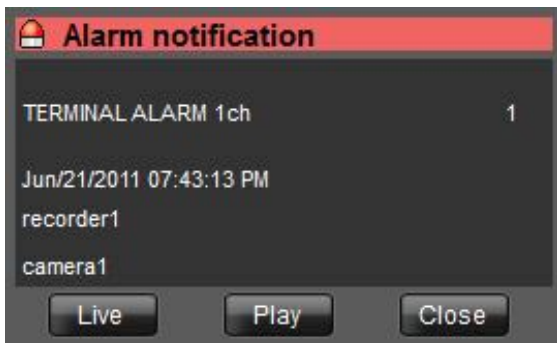
Search result will be displayed in list form. When a result is clicked, the "Search" window will close and the selected image will be displayed on a 1-screen. When playback of the selected result starts, the descriptions of the selected result will be displayed in the search panel of the operation window.

Note:

- No image will be displayed when search result number is "0".
-

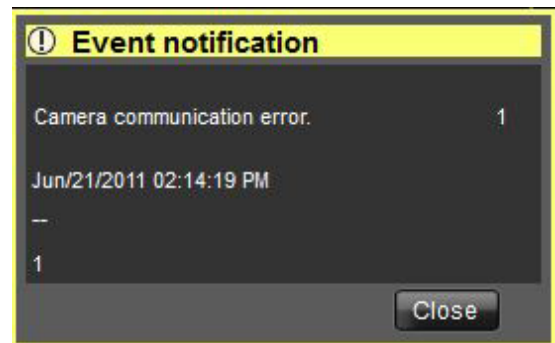
Alarm/event notification message

A pop-up window (notification window) will be displayed when an alarm or an error occurred.



■ Alarm notification

Notifies of an alarm occurrence.



■ Event notification

Notifies of a device error occurrence or a network error occurrence.

License registration message



■ License registration message

Notifies that the license for this software has not been registered.

Outline of the multi-monitor function

The multi-monitor function using up to four PC monitors is available, and it makes possible to display the operation window, the live window and map window simultaneously.

Important:

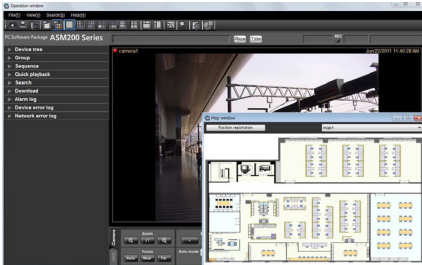
- To use the multi-monitor function, it is necessary to purchase the Extension Software WV-ASE201 and add the license.
 - To use the multi-monitor function, it is necessary to install an additional video card on the PC in use.
-

Note:

- Availability of the live window can be determined on the setup software. Refer to the WV-ASM200 Setup Instructions (PDF) for further information.
 - After the license for the WV-ASE202 is added, it will become possible to use up to 4 live windows.
-

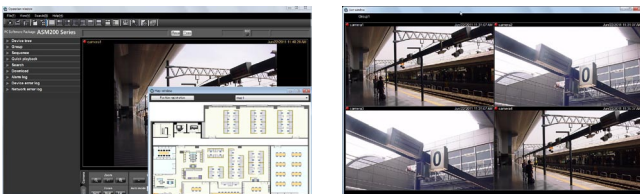
The following are the examples when using the multi-monitor function.

■ 1 PC monitor (Not use the live window)



When using a single PC monitor, the operation with the operation window and the map window without using the live window is suitable.

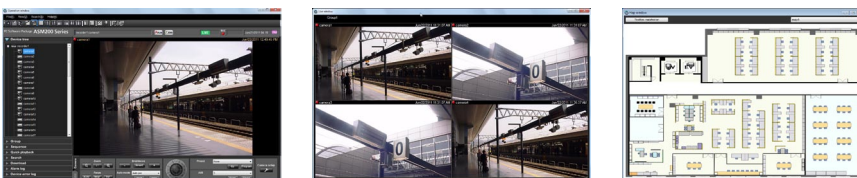
■ 2 PC monitors (Use the live window)



<When using two PC monitors>

Operation while displaying the operation window and the map window on one of the two PC monitors and the live window on the other PC monitor is suitable.

■ 3 PC monitors (Use the live window)

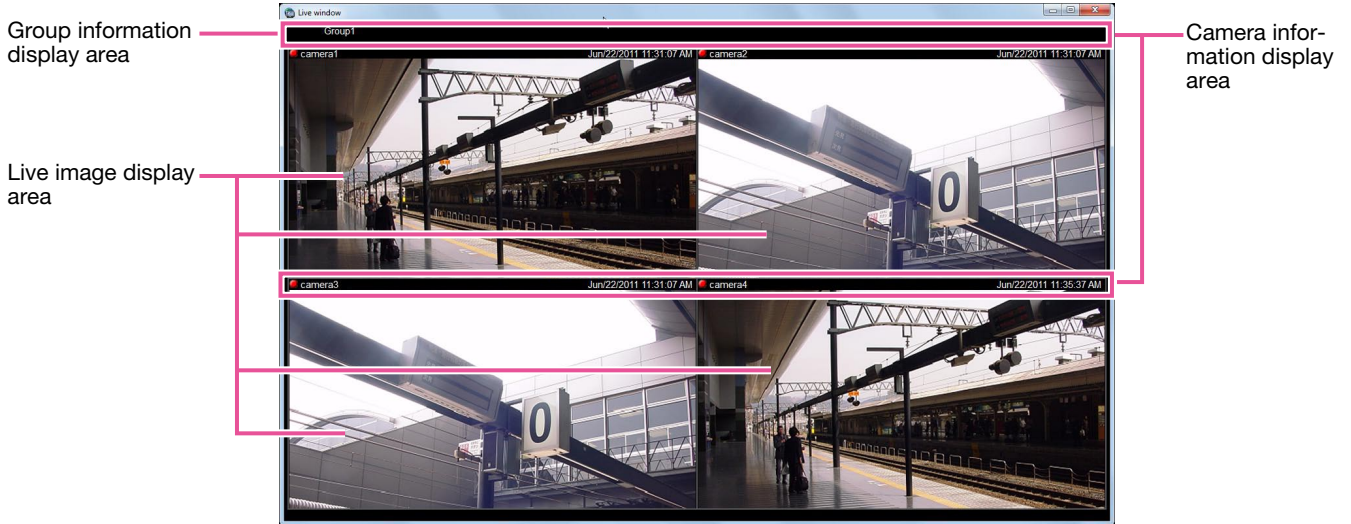


<When using three PC monitors>

Operation while displaying the operation window, the live window and the map window on each of three PC monitors is suitable.

Live window

The following are descriptions about each item displayed on the live window.



■ Group information display area

Status of the sequence and the group title will be displayed. Refer to the following section of "Group information display area" for further information.

■ Camera information display area

Status of recording, alarm occurrence and the camera title will be displayed. Refer to the following section of "Camera information display area" for further information.

■ Live image display area

Live images by the group display or the sequence display will be displayed. It is also possible to automatically display live images from the camera in which an alarm occurred. Refer to the WV-ASM200 Setup Instructions (PDF) for how to configure the setting.



Group information display area

Note:

- When the setting is configured to automatically display live images from the camera in which an alarm occurred, the group information display area will not be displayed while displaying live images from this camera.
-



■ [SEQ]

Indicates that the sequence display is being performed currently. When the sequence display is being performed, the indication  will be displayed. When the sequence display is being paused, the indication  will be displayed. This indication will not be displayed when the group display is being performed.


■ Group title


The group title will be displayed.

Camera information display area



■ REC indicator/Alarm indicator/Buffering indicator

These indicators will light when the images currently being displayed are being recorded. When the setting is configured to automatically display live images from the camera in which an alarm occurred, the REC indicator will turn to the alarm indicator .

When playing images on ASR500 and images are being buffered, the buffering indicator  will be displayed.

■ Camera name

The camera title will be displayed.

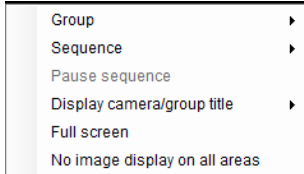
■ Time & date

Time & date will be displayed. When this software is configured to display live images directly from the camera in which an alarm occurred at an alarm occurrence, descriptions of the alarm will be displayed instead of time & date. The time & date will be followed by an asterisk "*" when the daylight saving time is applied.

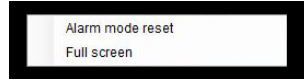
Pop-up menu

When right-clicking on the image display area, the pop-up menu will be displayed. There are two types of the pop-up menus as follows.

During the group display or the sequence display



During the live image display at an alarm occurrence



■ Group

Select a group to be displayed in the live image display area from the submenu.

■ Sequence

Select a sequence to be displayed in the live image display area from the submenu.

■ Pause sequence/Resume sequence

Select to pause or resume the sequence display. "Pause sequence" is available during the sequence display and "Resume sequence" is available during pausing the sequence display. These menus will not be displayed when the group display is being performed.

■ Display camera/group title

It is possible to display/hide the group information display area and the camera information display area by selecting "Group title" or "Camera title" from the submenu.

■ AVMD information display

It is possible to display/hide frame borders and traces using the submenu.

- When displaying images via ND300, ND200, NV200 or NV300, i-VMD information will not be displayed.
- To display i-VMD information while displaying images via ND400, it is necessary to update the firmware of ND400 to V3.40 or later.
- When "Frame display (only after determination)" is selected, AVMD frame will be displayed after AVMD alarm is confirmed.

■ Alarm mode reset

The alarm status will be reset.

■ Full screen

The live image display area, the group information display area and the camera information display area will be displayed on a full screen.

■ No image display on all areas

Clear the images displayed on all the areas.

Note:

- The AVMD information function will become available after the license for the WV-ASE231 is added.
- The AVMD information function is supported by some models only.
- AVMD information will be displayed only when displaying images on 1-screen.
- When displaying images (MPEG-4) via ND300 or ND200, AVMD information will not be displayed.
- i-VMD information of the camera will also be displayed.

Map window

The following are descriptions about each item displayed on the map window.



■ Map selection

Select a map.

■ Map display area

The selected map will be displayed. The camera icons and the map icons will be displayed on the map.

■ Position registration/Position registration completion

Clicking the [Position registration] button can change the icon positions.

The selected icon can move freely within the map.

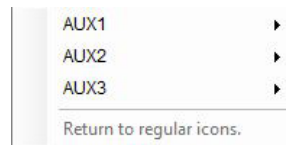
Clicking the [Position registration completion] button will register the new position.

Note:

- Only an administrator can perform this operation.
- At an alarm or error occurrence during the position registration, the map display will not be changed even when "ON" is selected for "Auto change of map".
- If the map window is closed without clicking the [Position registration completion] button, the new positions will not be applied.

Pop-up menu

When right-clicking on the camera icon displayed on the map, the pop-up menu will be displayed.



■ AUX1

It is possible to select "Open" or "Close" from the sub menu of the displayed pop-up menu for a device connected to the AUX1 connector.

Note:

- When using ASR500, AUX1 is not available.

■ AUX2

It is possible to select "Open" or "Close" from the sub menu of the displayed pop-up menu for a device connected to the AUX2 connector.

Note:

- When using ASR500, AUX2 is not available.

■ AUX3

It is possible to select "Open" or "Close" from the sub menu of the displayed pop-up menu for a device connected to the AUX3 connector.

Note:

- When using ASR500, AUX3 is not available.
-

■ Return to regular icons

The icon can be restored to the regular icon. It is enabled when the camera connection is disconnected.

About the face search monitor

Refer to the following for further information about each item and the pop-up menu displayed on the face search monitor.

- "Check the alarm notification" (☞ page 120)
- "Search the alarm notification" (☞ page 123)
- "Search by person (face)" (☞ page 124)
- "Search for designated people" (☞ page 128)
- "Display the statistical graphics of age/gender/head-count" (☞ page 144)

Monitor live images

With this software, it is possible to display images on the operation window from up to 16 cameras simultaneously (up to 64 cameras by adding license of WV-ASE202). It is not only possible to display live images from cameras connected to the same recorder, but also from cameras connected to different recorders. It is also possible to display live images directly from the cameras, not through the recorder. It is possible to display live images from encoders or cameras that are not registered in the recorder.

Important:

- Refer to the "Compatible devices" section (☞ page 6) for further information about the models and the versions of devices compatible with this software.
-

Note:

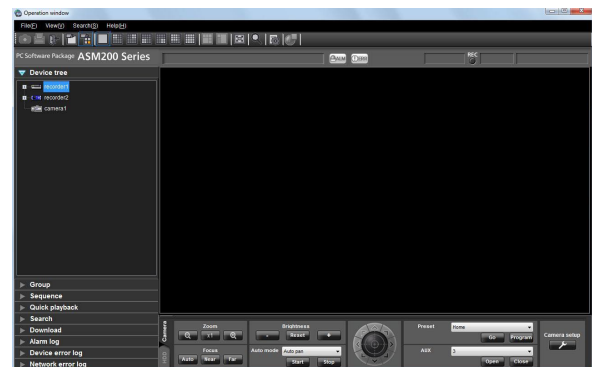
- Speed of image load may become slow when the processing load is too heavy on the devices or on the PC (such when many cameras are connected, when displaying live images from many cameras, etc.) or when the network traffic is heavy.
 - Audio and images may not always be synchronized during playback.
 - When using the live window, it is possible to display images from up to 20 cameras simultaneously (up to 68 cameras by adding license of WV-ASE202). Refer to the "Operate using the multi-monitor function" section (☞ page 77) for further information.
 - When network disconnection occurs while displaying live images, the images may sometimes not be displayed correctly soon after recovery.
 - When the settings of the setup menu of the camera are edited while displaying live images, select the camera again.
 - It is also possible to change the device tree display to the folder tree display. Refer to the WV-ASM200 Setup Instructions (PDF) for information about the folder tree display.
-

Confirm the registered devices

The devices registered in this software can be confirmed as follows.

Step 1

Click the "Device tree" bar on the function panel.



- The "Device tree" panel will be displayed. The registered devices will be displayed in the tree view. When no device is registered, no device will be displayed. Only an administrator can register devices.

Step 2

Double-click any of the recorder icon, the encoder icon and the folder icon, or click the [+] mark next to each device icon.

→ The icons of the cameras registered in the recorder, the encoder or the folder will be displayed.






































Note:

- Refer to the WV-ASM200 Setup Instructions (PDF) for how to register devices.

Icons in the device tree

The following are the descriptions of the icons displayed in the device tree.

Icon	Description
	ND300 (online)
	ND200 (online)
	HD300 (online)
	ND400 (online)
	HD600 (online)
	NV200 or NV300 (online)
	Encoder (online)
	ASR500 (online)
	GXE100 Encoder (online)
	Dome camera 1 (online)
	Dome camera 2 (online)
	Dome camera 3 (online)
	Dome camera 4 (online)

	Dome camera 5 (online)
	Dome camera 6 (online)
	Dome camera 7 (online)
	Dome camera 8 (online)
	Dome camera 9 (online)
	Dome camera 10 (online)
	Dome camera 11 (online)
	Stationary camera 1 (online)
	Stationary camera 2 (online)
	Stationary camera 3 (online)
	Stationary camera 4 (online)
	Fisheye camera 1 (online)
	Fisheye camera 2 (online)
	Fisheye camera 3 (Both camera and microphone online)
	Aero PTZ camera (online)
   	Recorder (offline)
 	Encoder (offline)
           	Offline cameras or microphones When right-clicking on the camera icon, the pop-up menu will be displayed. When "Return to regular icons." is selected, the camera icon will indicate that the camera is online.
 	Folder

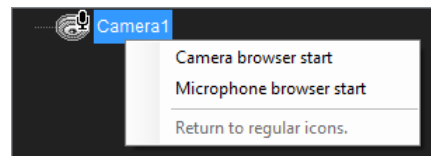
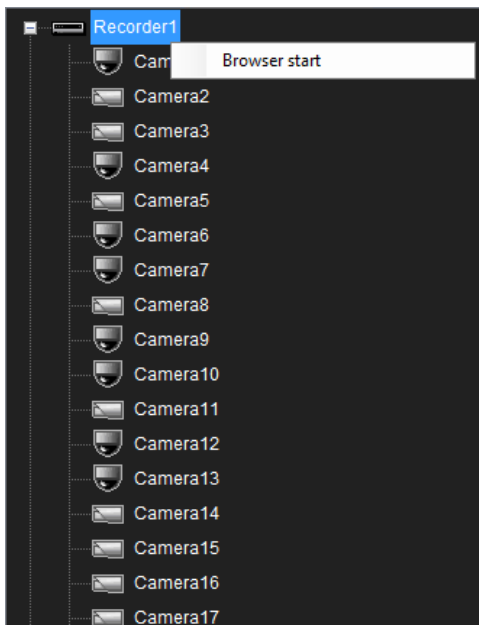
†1 Sometimes, live images may not be displayed even when the camera icon indicates that it is online. In this case, the following are possible causes.

- The Panasonic alarm protocol is not ready for reception. (The Panasonic alarm protocol notification function is not active on the recorder, encoder and/or this software.)
- The recorder is currently being configured using "HDD DISK MENU", or the SD memory recording is being performed.

†2 The icon status of a decoder will not turn to offline even after it is disconnected.

Pop-up menus over the icons in the device tree

When right-clicking on the camera icon, the pop-up menu will be displayed.

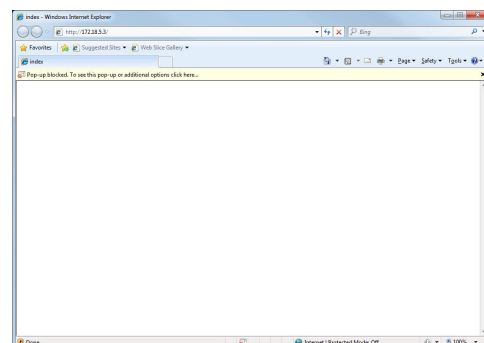


■ Browser start, Camera browser start, Microphone browser start

Start the web browser to display the top page of a desired device. When the camera icon connected to the recorder is selected, the device to be displayed differ according to the method of video acquisition. When the images are displayed through the recorder, the top page of the recorder is displayed. When the images are displayed through the camera, the top page of the camera will be displayed. When a linked camera is in use, the top page of the camera or the top page of the microphone will be displayed by selecting [Camera browser start] or [Microphone browser start] respectively.

Note:

- These menus will be displayed only when the administrator or a user whose user level is "LV1" logs into this software.
- Depending on the settings of web browser, the top page may sometimes not be displayed due to the pop-up blocker. In this case, cancel the pop-up blocker on the following window.
- When using ASR500, "Browser start" is not available.



Monitor images from the selected camera

Click the desired camera icon. Images from the selected camera will be displayed. Images from the camera can be displayed in various ways; display on a 1-screen, display in the desired area, display on a full screen, etc.

Monitor images on a 1-screen

Step 1

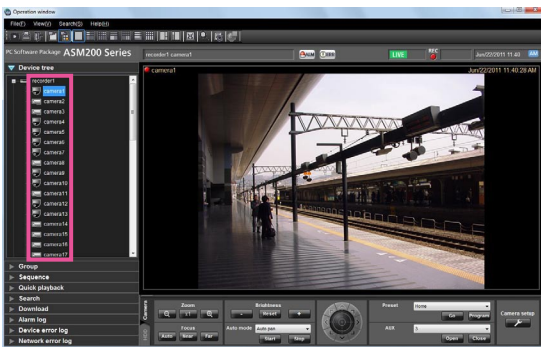
Select "Display images on 1-screen" under "Camera selection(D)" under "View(V)" on the menu bar or click the [Display images on 1-screen] icon on the tool bar.

Step 2

Click the desired camera icon when the image display area is 1-screen.

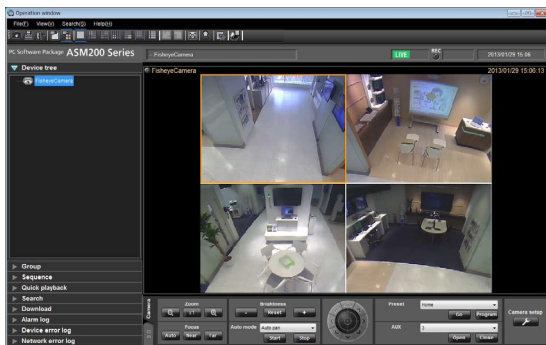
→ Images from the selected camera will be displayed on a 1-screen.

- When displaying images on a multi-screen and a selected area of the multi-screen is double-clicked, the clicked area will be displayed on 1-screen. However, the camera image cannot be double-clicked while the sound collection position of the microphone is displayed or the microphone setting panel is displayed.



Note:

- When right-clicking on the displayed image, the pop-up menu will be displayed and "Save a still picture", "Print" and "EL-zoom" are available.
- While "Quad PTZ" is selected for the image capture mode of the Fisheye camera in use, 4-screen display is available.



- It is also possible to display images from a desired camera by dragging and dropping the corresponding camera icon onto the image display area.

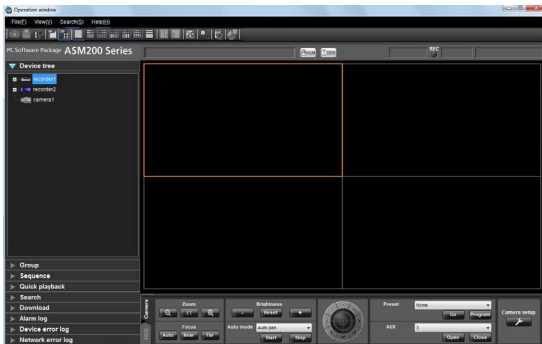
Specify the area to display images

Step 1

Select "Display images on the selected area(S)" under "Camera selection(D)" under "View(V)" on the menu bar or click the [Display images on the selected area] icon on the tool bar.

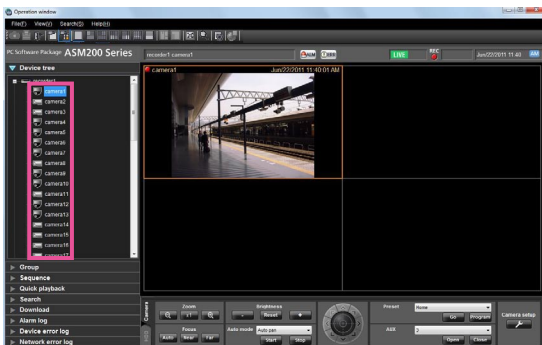
Step 2

Display images on any of 3A-/3B-/4-/6-/7-/9-/10-/13-/16-/25-/36-/49-/64-screen (refer to the "Switch the pattern of the screen" section (page 71) for further information) and click a desired area to display. (The 25-/36-/49-/64-screen will become available when the license for the WV-ASE202 is added.)
→ The frame will be displayed around the selected area to indicate the current selection.



Step 3

Click the desired camera icon.
Image from the selected camera will be displayed in the selected area.



Note:

- It is also possible to display images from a desired camera by dragging and dropping the corresponding camera icon onto the image display area.
- It is also possible to change the area to the other by dragging and dropping the image currently being displayed onto a desired area. The camera image cannot be dragged while the sound collection position of the microphone is displayed or the microphone setting panel is displayed (or under control of ASR500).
- It is also possible to switch the display area by dragging and dropping the icons of "recorder", "encoder" and "folder" onto the image display area. The whole images will be redrawn after the drag and drop operation.

Aspect ratio/Scaling mode

In the aspect ratio mode, images will be displayed in the selected area while keeping its aspect ratio. Black bands will appear outside the displayed image.

The following are the examples when the aspect ratio of displayed images is 4:3.

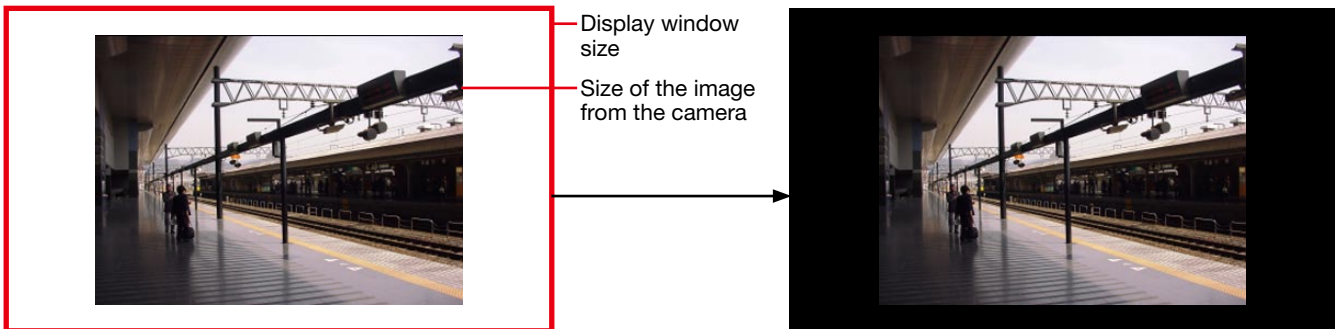


Note:

- Images from the HD300 will be enlarged/reduced even in the aspect ratio mode. In the scaling mode, the displayed images will be enlarged/reduced in the whole of the selected area.
- Images from the ASR500 will be enlarged/reduced even in the aspect ratio mode.
- As for the aspect ratio, the setting descriptions are the same as "Aspect ratio" and "Aspect ratio (type 2)" of "Image display method".

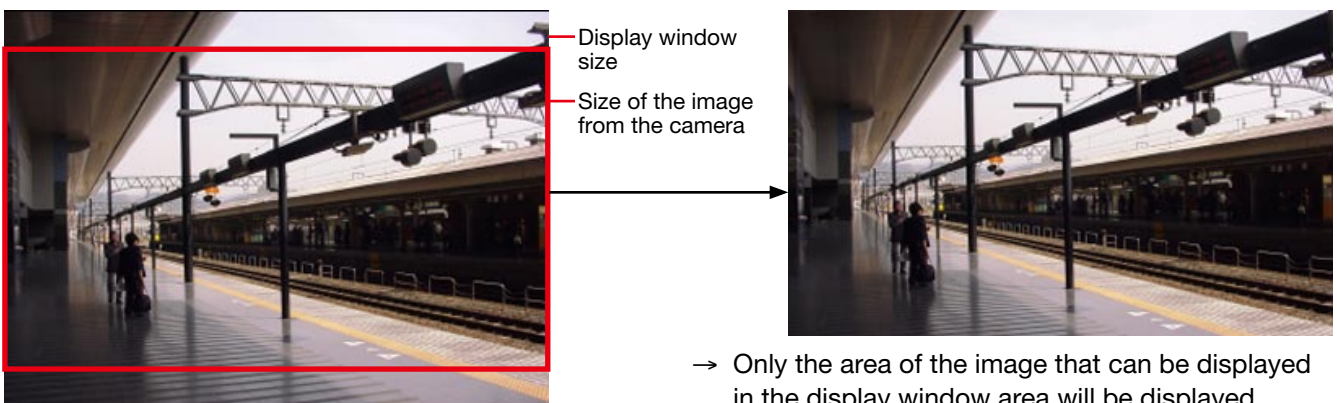
In the same size display mode, images will be displayed with the resolution specified on the camera. Adjustment will be required between the resolution of the images from the camera and the display window size. See the following example.

• When the display window size is larger than the image from the camera



→ The whole image will be displayed and blank space will be displayed in black.

• When the display window size is smaller than the image from the camera



→ Only the area of the image that can be displayed in the display window area will be displayed.

Note:

- When the display window size is smaller than the image from the camera, the area of the image that is not displayed can be moved to the center of the display area by click operation on the display area. In this case, panning/tilting operation will be performed together with this operation when using the PTZ camera.
- An image to be saved as a JPEG image or an image to be printed will be output with the display window size.
- An image to be saved as BMP image will be saved in the resolution that is used to transmit from the camera.
- This operation is available on 1-/4-/9-/16-screen. When operating on 25-/36-/49-/64-screen, the aspect ratio will be applied.
- When using in the same size display mode, the [Mic setting] button and the microphone setting panel will not be displayed and sound collection will also not be performed.

- The image selection frame border in the area will not be displayed when images are being displayed in "Quad PTZ".
 - If the image capture size is larger than 1920x1080, the display size is specified as follows depending on the screen pattern and the aspect ratio.
 - 1-screen/left area of 3A-screen/right area of 3B-screen
Displays in the original size.
 - 4-screen and the large areas of 7-/10-/13-screen
Displays in the following sizes:
In the case of 4:3, 1706x1280
In the case of 16:9, 1920x1080
In the case of 1:1, 1280x1280
 - 6-/9-/16-screen and the small areas of 3A-/3B-/7-/10-/13-screen
Displays in the following sizes:
In the case of 4:3, 1440x1080
In the case of 16:9, 1920x1080
In the case of 1:1, 1080x1080
-

Monitor images on a full screen

Step 1

Display live images.

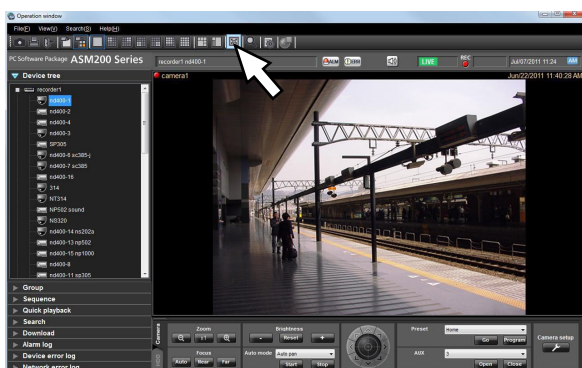
→ Refer to the "Monitor live images" section (page 55) for how to display live images.

Note:

- It is also possible to display recorded images on a full screen. Playback on a full screen is available only at normal playback speed (1x) and reverse playback is unavailable.
-

Step 2

Select "Full screen(F)" under "View(V)" on the menu bar or click the [Full screen] icon on the tool bar.



→ The image display area with the information display area will be displayed on a full screen.



Step 3

Full screen display will be canceled and will return to the normal window size by selecting "Exit from the full screen display" from the pop-up menu displayed by right-clicking on the image displayed on a full screen.

Use the function to compensate the distortion

It is possible to calibrate the display mode of live images or recorded images to "Single PTZ" or "Quad PTZ".

Note:

- The compensation function is available when the following settings are selected for the cameras in use.

Setup items	Selected values
Image capture mode	<ul style="list-style-type: none">• 9M Fisheye cameras 9M Fisheye 8M Fisheye 4M Fisheye• 3M Fisheye cameras 3M Fisheye [4:3] 1.3M Fisheye [4:3]
Image capture size	<ul style="list-style-type: none">• 9M Fisheye cameras Fisheye/2992×2992 Fisheye/2816×2816 Fisheye/2048×2048 Fisheye/1280×1280• 3M Fisheye cameras Fisheye/2048×1536 (Not available with H.264.) Fisheye/1280×960

- Refer to the operating instructions of the camera in use for how to configure the settings.
 - This function is available only when the camera in use is WV-SW458, WV-SW458M, WV-SF448, WV-SF438, WV-SFN480 or WV-SFV481.
-

Calibrate the images to display in the single PTZ mode/quad PTZ mode

Step 1

Display live images.

→ Refer to the "Monitor live images" section (page 55) for how to display live images.

Note:

- It is also possible to calibrate the display mode of recorded images to "Single PTZ" or "Quad PTZ".

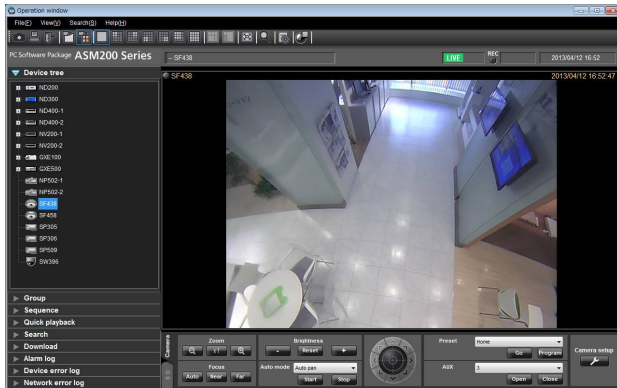
Step 2

Right-click the image on the selected area to display the pop-up menu.

Move a cursor to "Fisheye display menu", and select the desired mode to display the images.

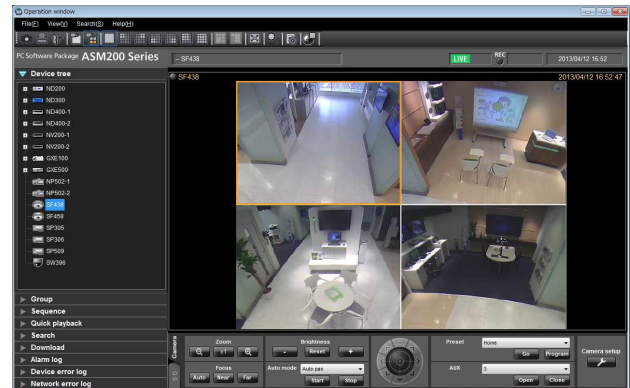
The following screenshots are the examples in which the function is used.

When "Single PTZ" is selected



Displays the images in the angular field of view registered for Preset 1.

When "Quad PTZ" is selected



Displays the images in the angular field of view registered for Preset 1 - 4.

Note:

- When "Recorder" is selected for "Live image source" of the Fisheye camera registered in the recorder, the preset positions will be as shown in the following screenshots. It is possible to change the display position on the fisheye control window.



- When "Single PTZ" or "Quad PTZ" is selected for "Fisheye display menu", "Auto pan", "Preset sequence" or "Preset position registration" is not available. In addition, "Adjust the brightness" is not available for recorded images. Refer to "WV-ASM200 Series Operating Instructions (PDF)" for other operations.
- When the drag zoom function is used, its processing load may slow the zoom operation.

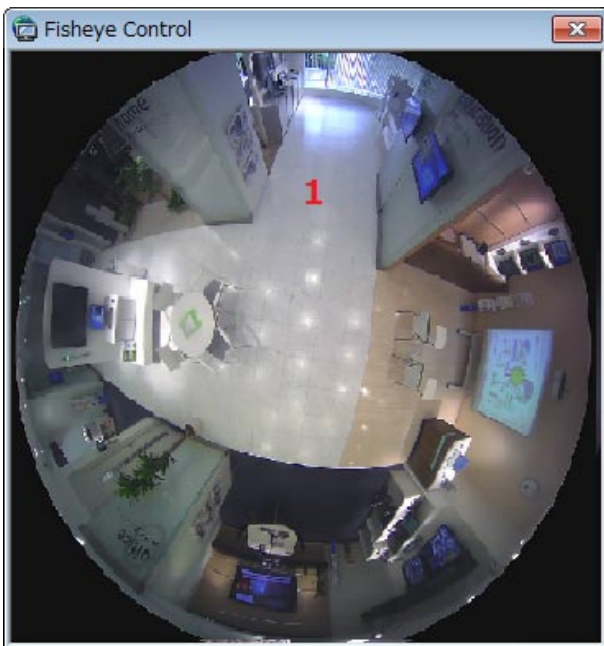
Use the fisheye control function

Step 1

Right-click the image on the selected area to display the pop-up menu, and click "Fisheye Control". Or select the [Fisheye Control] icon on the tool bar.

The following screenshots are the examples in which the function is used.

When "Single PTZ" is selected



When "Quad PTZ" is selected



On this window, it is possible to change the display position for the compensation function.

It is possible to display the desired position in the center of the image by dragging and dropping the associated number icon.

Note:

- Depending on the position, it may be impossible to display in the center of the image even by dragging and dropping the number icon.
 - The refresh interval for the fisheye control images is 1 second.
 - When using "Single PTZ" or "Quad PTZ", the [Mic setting] button, the microphone setting panel, and sound collection position will not be displayed. Audio will be played according to the microphone setting for "Fisheye".
-

Use cropping function

Cropping is a function that makes images easy-to-see by cropping a part or 5 parts on a panorama image. The live images or playback images can be displayed with "5 cropping" or "1 cropping" image.

Note:

- This function is available with 7-series cameras (Version 1.06 or later).
- The following cameras support this function:

Setup items	Selected values
Image capture mode	8M/30fps
	8M/15fps
	12M
	5M
	4M
Image capture size	4000×3000
	2560×1920
	2048×1536
	3840×2160
	2560×1440
	1920×1080

- Refer to the operating instructions of the camera in use for how to configure the settings.
-

Display with 5 cropping/1 cropping areas

Step 1

Images from the camera will be displayed in this area.

→ Refer to the "Monitor live images" section (page 55) for how to display live images.

Note:

- The playback images can also be displayed with "5 cropping" or "1 cropping" image.

Step 2

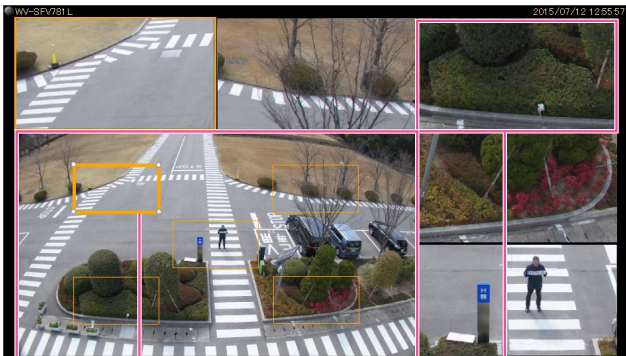
Click the [5 Cropping] icon or the [1 Cropping] icon on the tool bar.

Note:

- It is disabled during visibility enhancement is processed.
 - It is disabled in the same size display mode.
-

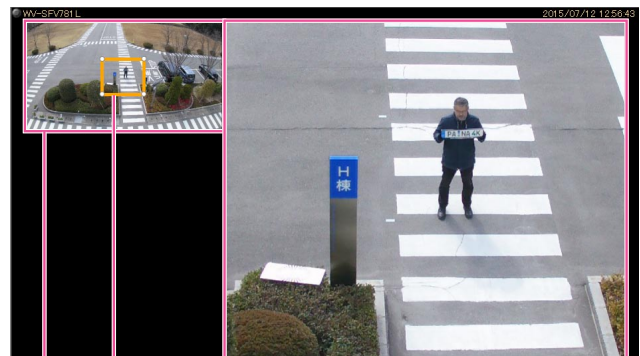
The following are the examples when using the cropping function.

When "5 Cropping" is selected



Panorama
Cropping frame
Cropping area

When "1 Cropping" is selected



Panorama
Cropping frame
Cropping area

● Operation on the panorama image

The position or size to be displayed in the cropping area can be changed by drag-and-drop of the displayed cropping frame into a desired place.

● Operation on the cropping area

When a point in the selected cropping area is clicked, the display position will move to locate the clicked point as the center point. Zooming out/in of the displayed image is available by scrolling the mouse wheel.

Note:

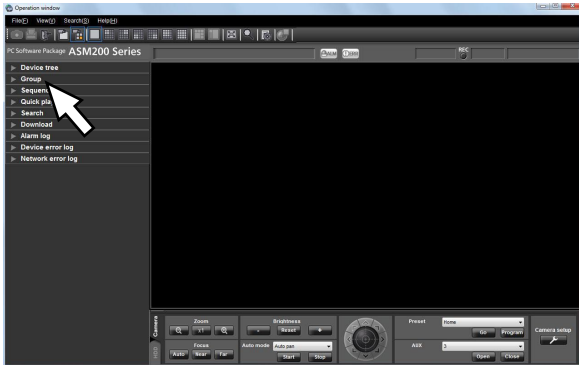
- The cropping function is available only in the operation window.
 - The position of the cropping area will be maintained until the next time when the same camera is selected and images from it are displayed. However, the default may be restored when the camera setting is changed.
 - The display format of panorama is subject to the settings of "Image display method" ("Aspect ratio", "Scaling") of the Setup software.
 - The cropping function displays images at 15 fps at maximum.
 - When the functions of saving still picture or printing is used, the images will be output in the cropping frame.
 - When an operation to zoom out/in an image is performed at an edge of the cropping area, the center point of the image being displayed in the cropping frame may deviate from the exact center point.
-

Display images from the cameras registered as a group (group display)

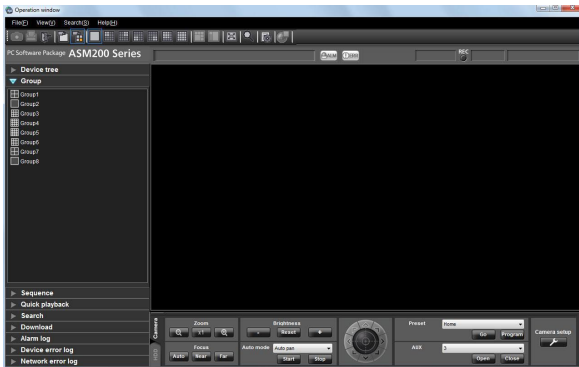
It is possible to register multiple cameras as a group. When registering multiple groups, images from the cameras can be displayed in group of the cameras.

Step 1

Click the "Group" bar on the function panel.



→ The "Group" panel will be displayed. The name of the registered group and the group icon that indicates the selected multi-screen will be displayed.



Registered group











The registered groups will be displayed in list form. Only groups available for the login user will be displayed. Only an administrator can register the cameras as groups. Refer to the WV-ASM200 Setup Instructions (PDF) for further information.





Group title

The group title will be displayed with the icon that indicates the screen pattern selected to display the respective group.

When clicking the icon, images from the selected group will be displayed in the image display area with the selected screen pattern.

The icon indicates the screen pattern as follows.

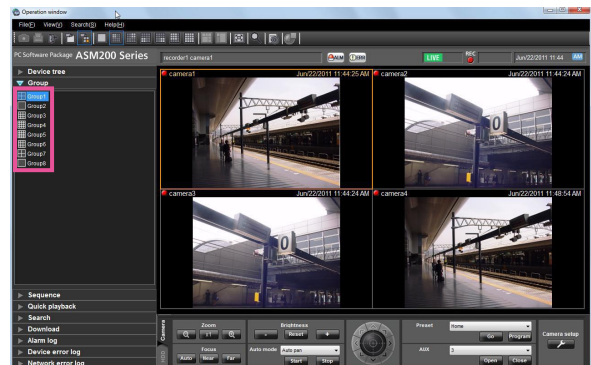
-  1-screen icon
-  3A-screen icon
-  3B-screen icon
-  4-screen icon
-  6-screen icon
-  7-screen icon
-  9-screen icon
-  10-screen icon
-  13-screen icon
-  16-screen icon

-  25-screen icon (Available after the license for the WV-ASE202 is added)
-  36-screen icon (Available after the license for the WV-ASE202 is added)
-  49-screen icon (Available after the license for the WV-ASE202 is added)
-  64-screen icon (Available after the license for the WV-ASE202 is added)

Step 2

Click the desired group icon.

→ Live images from the selected group will be displayed in the image display area.



Display images from the cameras registered as a group sequentially (sequence display)

Images from the registered groups can be displayed on a full screen in an automatic sequential manner. It is possible to set the dwell time (sequence interval) for the sequence display.

Note:

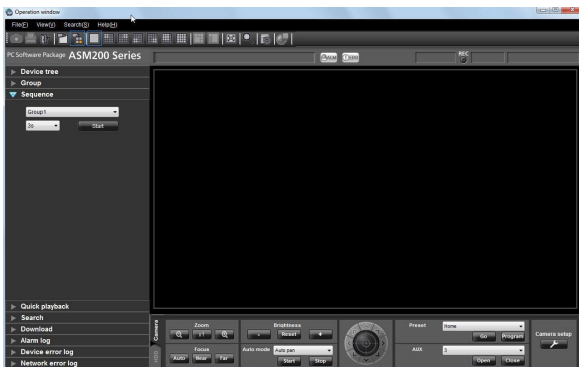
- Actual dwell time may become longer than the set dwell time when the processing load is too heavy on the devices or on the PC (such as when many cameras are connected, when displaying live images from many cameras, etc.) or when the network traffic is heavy.
- Images may sometimes not be displayed during the sequence display depending on the network environment.
- It is recommended to use less than 10 recorders when using the sequence display.
- Display with "5 Cropping" or "1 Cropping" is unavailable during the sequence display.

Step 1

Click the "Sequence" bar on the function panel.



→ The "Sequence" panel will be displayed.



■ Sequence

Select the registered sequence from the drop-down list. Only an administrator can register the sequence using the setup software. Refer to the WV-ASM200 Setup Instructions (PDF) for further information.

■ Sequence dwell time

Select the dwell time of the selected sequence from the following.

3s/5s/10s/15s/20s/25s/30s/35s/40s/45s/50s/55s/
1min

Default: 3s

Note:

- "Sequence dwell time" is the duration from the moment when completing displaying of all images from the cameras registered as a group till the moment when starting displaying images of the next group.

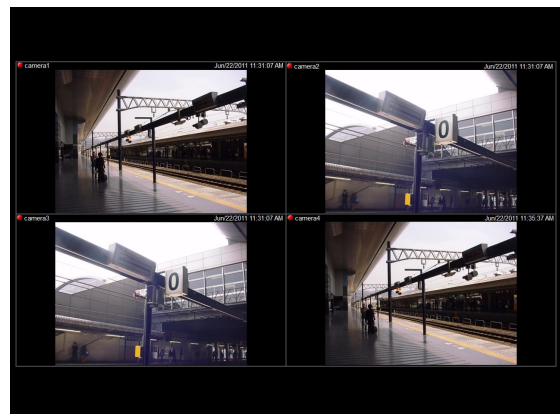
■ [Start] button

When this button is clicked, the sequence display will start with the selected dwell time.

Step 2

Click the [Start] button after selecting the registered sequence and the sequence dwell time.

→ The window will be switched to a full screen and the sequence display will start.



Step 3

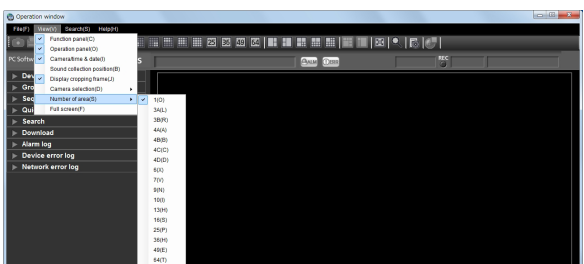
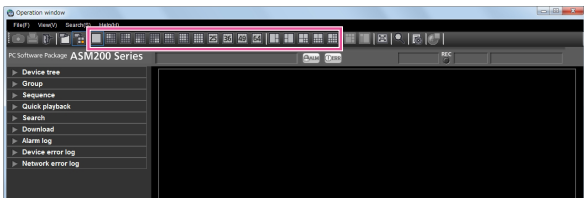
To stop the sequence display, select "Exit from the full screen display" from the pop-up menu displayed by right-clicking. When the sequence display is stopped, the full screen will return to the normal window size and live image display will start. Live images displayed after stopping the sequence display will be of the group's that have been displayed when the sequence display is stopped.

Switch the pattern of the screen

The following are the descriptions of how to switch the pattern of the screen (1/3A/3B/4/6/7/9/10/13/16/25/36/49/64) in the image display area.

Step 1

Select "Number of area(S)" under "View(V)" on the menu bar or click the desired icon ([1] - [64]) on the tool bar.



→ The images will be displayed on the selected screen pattern.

Note:

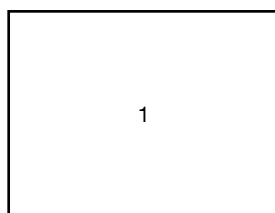
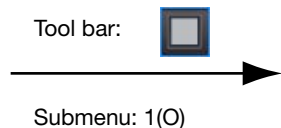
- When displaying images on a multi-screen and a selected area of the multi-screen is double-clicked, the clicked area will be displayed on 1-screen. However, the camera image cannot be double-clicked while the sound collection position of the microphone is displayed or the microphone setting panel is displayed.

Switch the screen pattern from 16-screen

When the screen pattern is switched from 16-screen to 1-screen, 3A-screen, 4-screen, 6-screen, 7-screen, 9-screen, 10-screen or 13-screen, images to be displayed will be as follows.

Group display on 16-screen

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

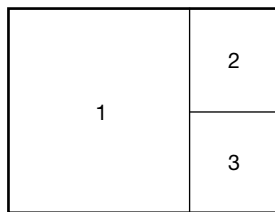
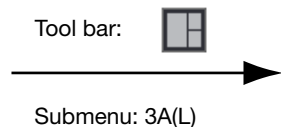


* The 1-screen display of images displayed in the selected area will start.

Group display on 1-screen

Group display on 16-screen

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16



Group display on 3A-screen

Group display on 16-screen

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Tool bar:



Submenu: 3B(R)

Group display on 3B-screen

1	2
3	

Group display on 16-screen

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Tool bar:



Submenu: 4A(A)

Group display on 4-screen

1	2
5	6

Group display on 16-screen

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Tool bar:



Submenu: 4B(B)

Group display on 4-screen

3	4
7	8

Group display on 16-screen

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Tool bar:



Submenu: 4C(C)

Group display on 4-screen

9	10
13	14

Group display on 16-screen

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Tool bar:



Submenu: 4D(D)

Group display on 4-screen

11	12
15	16

Group display on 16-screen

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Tool bar:




Submenu: 6(X)

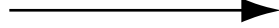
Group display on 6-screen

1	2	3
5	6	7

Group display on 16-screen

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Tool bar: 




Submenu: 7(V)

Group display on 7-screen

1		2	
3		4	5
		6	7

Group display on 16-screen

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Tool bar: 




Submenu: 9(N)

Group display on 9-screen

1	2	3
5	6	7
9	10	11

Group display on 16-screen

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Tool bar: 




Submenu: 10(I)

Group display on 10-screen

1		2	
3	4	5	6
7	8	9	10

Group display on 16-screen

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Tool bar: 



Submenu: 13(Z)

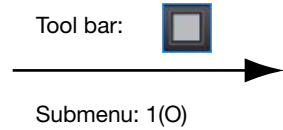
Group display on 13-screen

1		2	3
		4	5
6	7	8	9
10	11	12	13

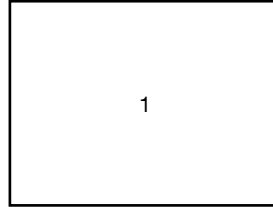
When the screen pattern is switched from 64-screen to 1-screen, 3A-screen, 3B-screen, 4-screen, 6-screen, 7-screen, 9-screen, 10-screen, 13-screen, 16-screen, 25-screen, 36-screen or 49-screen, images to be displayed will be as follows.

Group display on 64-screen

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64



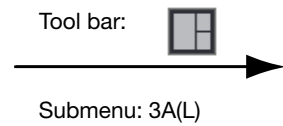
Group display on 1-screen



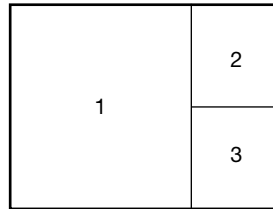
* The 1-screen display of images displayed in the selected area will start.

Group display on 64-screen

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

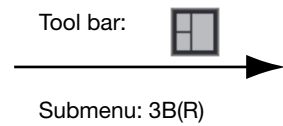


Group display on 3A-screen

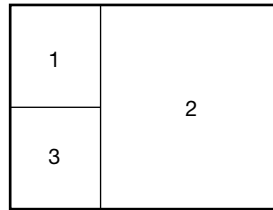


Group display on 64-screen

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

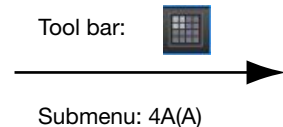


Group display on 3B-screen

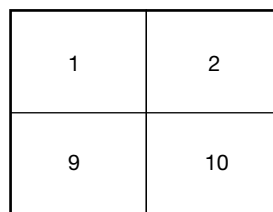


Group display on 64-screen

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

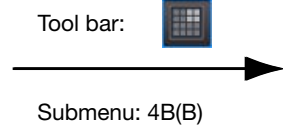


Group display on 4-screen

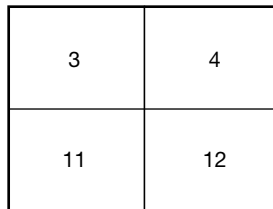


Group display on 64-screen

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64



Group display on 4-screen



Group display on 64-screen

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64



Group display on 4-screen



Group display on 64-screen

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

Tool bar:



Submenu: 4D(D)

Group display on 4-screen

19	20
27	28

Group display on 64-screen

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

Tool bar:



Submenu: 6(X)

Group display on 6-screen

1	2	3
9	10	11

Group display on 64-screen

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

Tool bar:



Submenu: 7(V)

Group display on 7-screen

1	2	
3	4	9
10	11	

Group display on 64-screen

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

Tool bar:



Submenu: 9(N)

Group display on 9-screen

1	2	3
9	10	11
17	18	19

Group display on 64-screen

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

Tool bar:



Submenu: 10(I)

Group display on 10-screen

1	2		
3	4	9	10
11	12	17	18

Group display on 64-screen

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

Tool bar:



Submenu: 13(Z)

Group display on 13-screen

1	2	3	
4	9		
10	11	12	17
18	19	20	25

Group display on 64-screen

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

Tool bar:



Submenu: 16(S)

Group display on 16-screen

1	2	3	4
9	10	11	12
17	18	19	20
25	26	27	28

Group display on 64-screen

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

Tool bar:



Submenu: 25(P)

Group display on 25-screen

1	2	3	4	5
9	10	11	12	13
17	18	19	20	21
25	26	27	28	29
33	34	35	36	37

Group display on 64-screen

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

Tool bar:



Submenu: 36(H)

Group display on 36-screen

1	2	3	4	5	6
9	10	11	12	13	14
17	18	19	20	21	22
25	26	27	28	29	30
33	34	35	36	37	38
41	42	43	44	45	46

Group display on 64-screen

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

Tool bar:



Submenu: 49(E)

Group display on 49-screen

1	2	3	4	5	6	7
9	10	11	12	13	14	15
17	18	19	20	21	22	23
25	26	27	28	29	30	31
33	34	35	36	37	38	39
41	42	43	44	45	46	47
49	50	51	52	53	54	55

Operate using the multi-monitor function

The multi-monitor function using up to 3 PC monitors is available, and it is possible to display the operation window, the live window and the map window simultaneously.

After the license for the WV-ASE202 is added, the multi-monitor function using up to 6 PC monitors will become available, and it will become possible to display the operation window, the map window and the 4 map windows simultaneously.

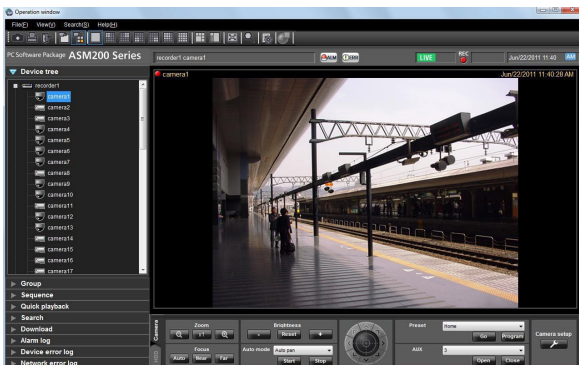
Important:

- It is necessary to register the license for the Extension Software WV-ASE201.
-

Note:

- The maximum number of areas (multi-screen pattern) of the operation window and the live window can be determined on the setup software. Refer to the WV-ASM200 Setup Instructions (PDF) for further information.
 - Up to 16 areas (16-screen) can be displayed for the sequence display.
 - When the port setting of the camera is stationary, live images will be displayed either on the operation window or the live window. Refer to the operating instructions of the camera for how to configure the settings for MPEG-4 transmission.
-

Operate the operation window



On the operation window, all operations relating to the live image display, playback and the sequence display are available.

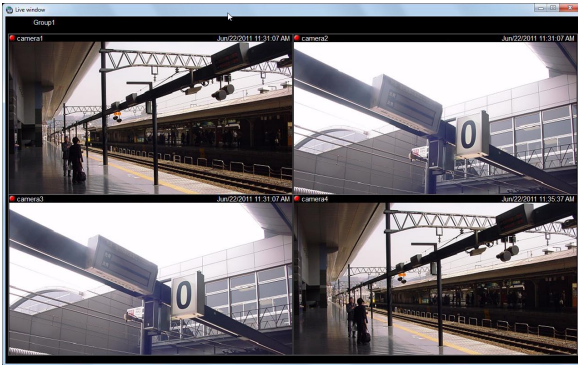
Note:

- A black screen may sometimes be displayed when keeping on clicking around the edge of the screen to enlarge MPEG-4 or H. 264 images using the EL-zoom function.
-

Operate the live window

On the live window, operations relating to the live image display of group and the sequence display are available.

Select "Live window(L)..." under "View(V)" on the menu bar to display the live window.



Note:

- Right-clicking on the live window provides the pop-up menu. Refer to "Live window" (page 50) for further information.
- When adding the license for the WV-ASE202 to display more than one live window, it is necessary to select "Live window(L)..." under "View(V)" on the menu bar repeatedly.
- When displaying the images of more than one live window (it is necessary to add the license for the WV-ASE202), the display order will be Live window (1) → Live window (2) → Live window (3) → Live window (4). If the live window display is canceled on the way, the images of live window with the smallest number after cancellation will be displayed next time.
- When displaying the images of more than one live window (it is necessary to add the license for the WV-ASE202) or when the maximum number of areas for the live window is set to 25-screen or more, it may take some time until the live windows are displayed.
- When displaying the images of more than one live window (it is necessary to add the license for the WV-ASE202) by using two video cards, run on Windows Vista or Windows 7 and turn off the Aero feature. When running on an operation system of Windows 8 or later, this function is not guaranteed since the Aero feature cannot be turned off.

Operate the map window

Step 1

Select "Map window(M)..." under "View(V)" on the menu bar to display the map window.

→ The map window will be displayed.



Step 2

Map selection









Select the desired map from the drop-down list.




Note:

- When the camera icon on the map is clicked, live images from the selected camera will be displayed in the selected area on the operation window.
- When a map icon displayed on the map is clicked, the respective map will be displayed on the map window.
- When right-clicking on the camera icon displayed on the map, the pop-up menu will be displayed. It is possible to select "Open" or "Close" from the sub menu of the displayed pop-up menu for a device connected to the AUX connector.

Icons on the map

The following are the descriptions of the icons displayed on the map.

Icon	Description
	Dome camera 1 (online)
	Dome camera 2 (online)
	Dome camera 3 (online)
	Dome camera 4 (online)
	Dome camera 5 (online)
	Dome camera 6 (online)
	Dome camera 7 (online)
	Dome camera 8 (online)
	Dome camera 9 (online)
	Dome camera 10 (online)
	Dome camera 11 (online)
	Stationary camera 1 (online)
	Stationary camera 2 (online)
	Stationary camera 3 (online)
	Stationary camera 4 (online)
	Fisheye camera 1 (online)
	Fisheye camera 2 (online)
	Fisheye camera 3 (Both camera and microphone online)
	Aero PTZ camera (online)

	<p>Offline cameras or microphones</p> <p>When right-clicking on the camera icon, the pop-up menu will be displayed.</p> <p>When "Return to regular icons." is selected, the camera icon will indicate that the camera is online.</p>
	<p>A camera or a microphone in the alarm state</p> <p>The icon will blink for 10 seconds after receiving an alarm.</p> <p>When the icon is clicked, the icon will indicate that the camera is online.</p>
	<p>Map</p>

Operate the cameras

It is possible to operate the camera while displaying live images.

Some models may not be operable. Refer to the "Compatible devices" section (☞ page 6) for the devices compatible with this software.

This software can operate the following.

- Panning/ tilting^{†1}: Adjusts the horizontal/vertical position of the displayed image.
- Zoom^{†3}: Zooms in/out the displayed image.
- Focus^{†2}: Adjusts the focal point of the displayed image.
- Brightness^{†2}: Adjusts the lens iris.
- Preset function^{†1+4}: Moves the camera to the preset position registered in advance. Registration of the preset positions is also available.
- Auto mode^{†1+2}: Starts the selected auto function.
- AUX^{†2}: Selects "Open" or "Close" for the status of a device connected to the AUX connector.

†1 Available for PTZ cameras and Fisheye cameras

†2 When using ASR500, this function is unavailable regardless of the camera model.

†3 When using ASR500, [x1] button is not available.

†4 When using ASR500, [Go] button and [Program] button for the preset position "Home" are not available.

Note:

- Some functions may be unavailable depending on the model of the camera. Contact your dealer for further information.
- When using a camera registered for camera categories of NV200 with this software, some operations may be restricted depending on the model of the camera. When using NV200, register the camera on "Easy start".
- When using a camera registered for camera categories of NV200 and NV300 with this software, some operations may be restricted depending on the model of the camera. When using NV200 or NV300, register the camera on "Easy start".

Step 1

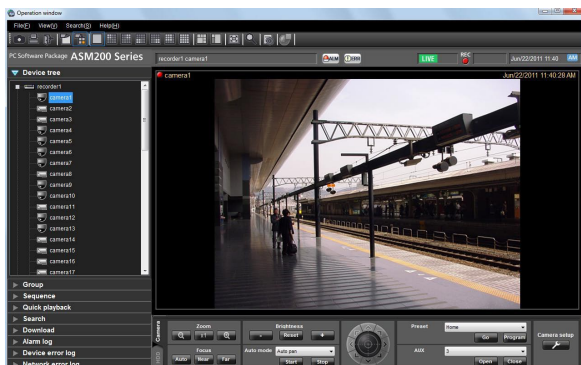
Display live images.

Refer to the "Monitor live images" section for how to display live images (☞ page 55). When displaying images on a multi-screen, click the desired area to select the camera to be operated. The selected area will be displayed with the frame in orange.

Step 2

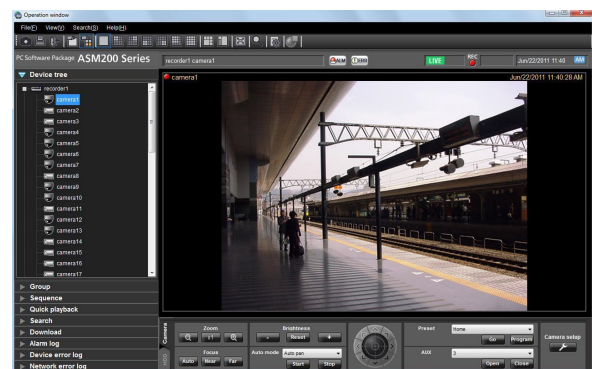
Click the [Camera] tab.

The camera operation panel will be displayed.



Step 3

Operate the camera using the buttons on the camera operation panel.



→ Refer to the "Camera operation panel" section (☞ page 34) for further information about the buttons on the camera operation panel.

Note:

- It is possible to pan/tilt the camera by clicking a point on the image display area.
- Zooming is available using the wheel on the wheel mouse.
- When specifying the area to display images by dragging the mouse, the camera will move to the position centered around the specified area. In this case, the zoom ratio will be automatically adjusted.

Operate the microphones

It is possible to configure the settings for sound collection position or compensation for the microphone while displaying live images from a linked camera or playback images of the recorder.

It may be impossible to operate the microphone depending on the model of the connected microphone. Refer to the "Compatible devices" section (☞ page 6) for microphones compatible with this software.

This software can operate the following.

- Sound collection position: Sets up where to pick up the sound.
- Noise reduction: Reduces noise contained in the audio from microphones.
- Voice clearness: Selects the audio compensation level for the microphone in order to make better sound.

Note:

- The sound collection position can be set per devices displayed in the device tree.
- The setting of the sound collection position is available per groups. However, the setting will be switched to each device, if a device is selected in the device tree, a camera is selected, the number of screen setting is changed, or full screen display is performed.
- In the following cases, the [Mic setting] button will not be displayed. Sound collection will also not be performed. The sound collection position will not be displayed even if the display of the sound collection position is enabled.
 - When the fisheye camera and the microphone are not linked
 - When the microphone is disabled
 - When the image capture mode of the fisheye camera is not set to "Fisheye" nor "Panorama"
 - When "OFF" is set for "Audio" of "Basic setup 1" under "System" of the setup software
 - When displaying images in more than 25-screen
 - When a microphone is set on a screen other than the upper left
 - When operated by a user who is not authenticated to configure the microphone setting
 - When the image display method is the same size display
 - When "ON" is selected for "Quad streams" on the setting of the fisheye camera
- In the following cases, the sound collection position will not be displayed even if the display of the sound collection position is enabled.
 - When the EL-zoom ratio is other than x1
 - When the sequential display is enabled

Step 1

Display images from a linked camera.

- Refer to the "Monitor live images" section for how to display live images (☞ page 55).
- Refer to the "Playback" section (☞ page 89) for how to display images on the recorder.

Step 2

Press the [Mic setting] button.

- The microphone setting panel will be displayed.



Step 3

Operate the microphone using the buttons on the microphone setting panel. Refer to the "Camera operation panel" section (☞ page 34) for further information about the buttons on the camera operation panel.

Operation of SD memory card

Download recorded images

While displaying live images, download H.264 video files (mp4 files) from the SD memory card in the registered camera onto the PC.

Note:

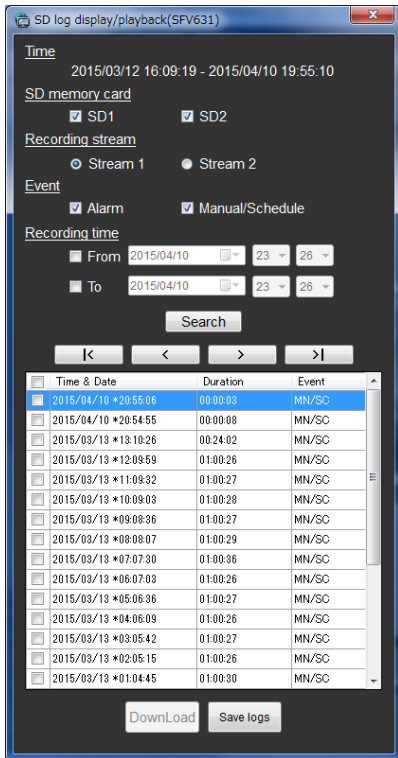
- When two or more alarms occurred in the same file, they will be displayed on different log lists, but the same file will be downloaded.
- Video data will be saved as files and each file size is approx. 20 MB or 2 MB. When data which exceeds the size of file (20 MB or 2 MB), two or more files will be downloaded for an item of the list.
- Regarding log display and download for video, the available functions differ according to the camera model or versions. Descriptions are categorised into some groups. Refer to the table below to check the group No. and read the following descriptions accordingly.

Model (camera)	Version	Group number
6-series camera, new 3-series camera, WV-SPN531, WV-SPN531A, WV-SPW531AL, WV-SPW532L	1.80 to 1.82, 1.84	Group 1
7-series camera	1.05 or later	
New 5-series camera (except WV-SPN531, WV-SPN531A, WV-SPW531AL and WV-SPW532L)	1.85 or later	
6-series camera, new 3-series camera, WV-SPN531, WV-SPN531A, WV-SPW531AL, WV-SPW532L	1.85 or later	Group 2
New 5-series camera (except WV-SPN531, WV-SPN531A, WV-SPW531AL and WV-SPW532L)	1.86 or later	
WV-SFN110, WV-SFV110, WV-SFN130, WV-SFV130	1.00 or later	
WV-SF138, WV-SW158, WV-SW458, WV-SW458M, WV-SF448, WV-SF438, WV-SP509, WV-SP508, WV-SW559, WV-SW558, WV-SF549, WV-SF548, WV-SF539, WV-SW598, WV-SC588, WV-SW397/WV-SW397A, WV-SC387	1.62 or later	
6-series camera, new 3-series camera	Earlier than 1.80	Group 3
9M Fisheye network camera	All	
WV-SF138, WV-SW158, WV-SW458, WV-SW458M, WV-SF448, WV-SF438, WV-SP509, WV-SP508, WV-SW559, WV-SW558, WV-SF549, WV-SF548, WV-SF539, WV-SW598, WV-SC588	Earlier than 1.62	
WV-SP306, WV-SP305, WV-SP302, WV-SF336, WV-SF335, WV-SF332, WV-SF346, WV-SF342, WV-SC385, WV-SW395/WV-SW395A, WV-SW355, WV-SW352, WV-SW155, WV-SW152, WV-SW316L, WV-SW316, WV-SW314, WV-SW396/WV-SW396A, WV-SC386, WV-SC384, WV-SW175, WV-SW172, WV-ST165, WV-ST162	All	

- When "20MB" is selected for "Image saving interval" with the cameras of Group 3, the recorded data may not be downloaded successfully. In that case, select "2MB" for "Image saving interval".
- If a brake is included in the recording of the camera of Group 3, "NG" may be displayed during download. However, downloading will not be affected and continued as long as data exists.
- When the overwriting of SD memory card is started with the cameras of Group 3, "NG" may be displayed for some list during download. As long as data exists, download will be continued.
- If the 6-series camera of version 1.83 is used, the H.264 video files stored in the SD memory card that is inserted in the slot 2 cannot be downloaded. Use the 6-series camera of version 1.85 or later. Also, in this case, the version of this software needs to be 3.40 or later.

Step 1

Display the "SD log display/playback" window from the SD operation panel.



The details are as follows.

■ Time

Displays the recording time saved in the SD memory card.

Note:

- It is not available with the cameras of Group 3.

■ SD memory card

Selects the SD memory card for which log display to be enabled.

SD1: Displays logs saved in the SD memory card inserted in Slot 1.

SD2: Displays logs saved in the SD memory card inserted in Slot 2.

Note:

- It is not available with the cameras of Group 1 and 3.
- It is not available with a camera that is not equipped with two slots.

■ Recording stream

Selects the recording stream for which log display to be enabled.

Stream 1: Displays logs saved in "Recording stream 1".

Stream 2: Displays logs saved in "Recording stream 2".

Note:

- It is not available with the cameras of Group 3.
- It is not available with a camera that does not support "Recording stream 2".

■ Event

Selects a type of logs to be displayed in the log list.

Alarm: Displays the log of alarm occurrence.

Manual/Schedule: Displays the log of manual saving and schedule saving.

■ Recording time

Set a period to specify logs to be displayed in the log list.

From: Set the start point for the log display.

To: Set the end point for the log display.

Note:

- When the checkbox "From" is unchecked, the logs will be displayed from the top. When the checkbox "To" is unchecked, the logs will be displayed by the end.

■ [Search] button

When this button is clicked, log search will start with the filters set by "Event" and "Recording time".

Search result will be displayed in the log list.

■ [|<] button

Click this button to display the log listed at the top.

■ [<] button

Click this button to display the previous page of the log list.

■ [>] button

Click this button to display the next page of the log list.

■ [>|] button

Click this button to display the log listed at the bottom.

■ Time & Date

Indicates the time & date on which the logs were filed.

■ Duration

Displays the period of time in which data has been saved in the SD memory card.

Note:

- It is not available with the cameras of Group 1 and 3.
-

■ Event

The following indicates the events for the alarm occurrence:

When logs are obtained using HTTP function

MN/SC: Manual/Schedule

TRM: Terminal alarm

TRM1: Terminal alarm 1

TRM2: Terminal alarm 2

TRM3: Terminal alarm 3

VMD: VMD alarm

COM: Command alarm

AUD: Audio detection alarm

SCD: AVMD alarm (Scene change)

INT: iVMD alarm (Intruder)

LOI: iVMD alarm (Loitering)

DIR: iVMD alarm (Direction)

OBJ: iVMD alarm (Removal and left behind)

CLD: iVMD alarm (Cross line)

FTP: FTP error recording

NWLST: Network disconnection

When logs are obtained using FTP function

Terminal: Alarm by alarm input to Terminal 1

Terminal2: Alarm by alarm input to Terminal 2

Terminal3: Alarm by alarm input to Terminal 3

VMD: Alarm by VMD alarm

Command: Alarm by command alarm

Note:

- The supported events differ according to the camera in use. Refer to the operating instructions of the camera in use for further information.
-

■ [Download] button

The folder selection window will be displayed.

■ [Save logs] button

Saves the log list onto the PC.

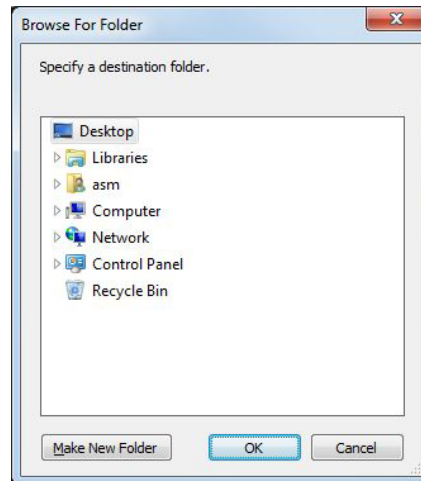
Step 2

Select the list to download from the log list. Multiple selection of the list is available.

Step 3

Click the [Download] button.

→ The window for a folder designation will be displayed.



The details are as follows.

■ Destination folder

Specify a folder as the destination of downloaded files.

■ [Make New Folder] button

Create a new folder in the folder currently selected.

■ [OK] button

Close the window for a folder designation do start download.

■ [Cancel] button

Close the window for a folder designation do cancel download.

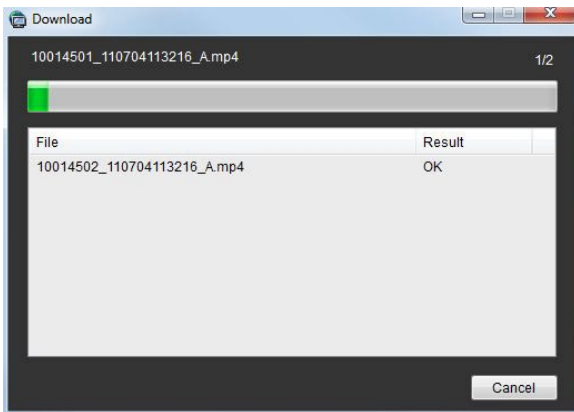
Note:

- The overwrite warning window will be displayed when a file of the same name already exists in the folder. If you do not wish to overwrite the existing file, cancel download and select another folder.
 - It is impossible to click the [Download] button when no list is selected.
 - When a removable HDD formatted on the 32-bit OS is connected to a PC whose OS is the 64-bit edition, it may fail to designate the removable HDD as a saving destination.
-

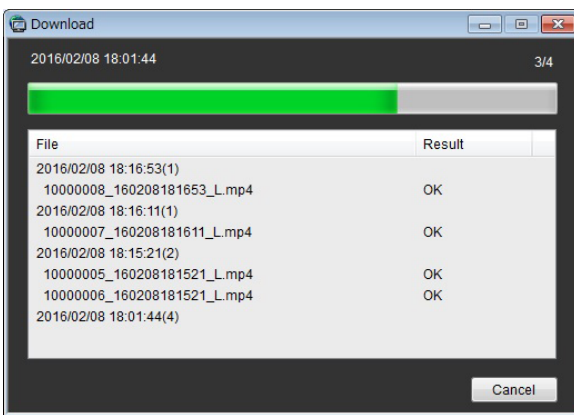
Step 4

Click the [OK] button after specifying a folder.
→ Download will start and the "Download" window will be displayed. To cancel download, click the [Cancel] button or the [x] button at the top right of the window.
Downloaded files will be stored in the specified folder.

<In case of group 1 and 3>



<In case of group 2>



The details are as follows.

■ Name of the file currently being downloaded

Name of the file currently being downloaded will be displayed.
In case of group 2, the time and date of the selected log list will be displayed as the file name.

■ Number of files

"Number of files downloaded"/"Number of files to be downloaded" will be displayed.

■ Progress bar

The status of the download will be displayed.

■ List of files

Information of the downloaded files will be displayed in list form.

File: Downloaded files will be displayed.

In case group 2, it will be displayed as "time and date of log list (n)". "n" indicates the actual file number. It will be displayed in form of "actual file name 1" "actual file name 2" "actual file name n".

Result: The status of the download file will be displayed.

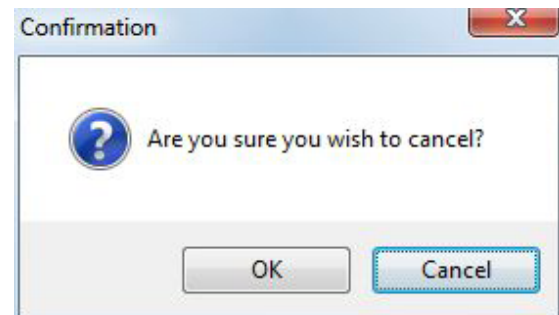
OK: Download of the file is successfully completed.

NG: Download of the file failed.

■ [OK] button/[Cancel] button

The [OK] button will be displayed when the download is completed. The [Cancel] button will be displayed in the process of download. When the [OK] button is clicked, the "Download" window will close. When the [Cancel] button is clicked in the process of download, the download will be canceled.

If the download is canceled, the confirmation window to cancel download will be displayed.



When the [OK] button is clicked, download will be canceled. When the [Cancel] button is clicked, download will continue.

Step 5

When the download is completed, click the [OK] button.

→ The download window will close.

Note:

- When trying to exit this software or log out of the software during download, the download will be automatically cancelled.

About the downloaded files

It is possible to play video data saved on the PC using such an application as QuickTime® Player or Windows Media® Player*. However, we are not liable for performance relating to these applications.

* Playback on Windows Vista is not supported. Operate on Windows 7 or later.

Playback of images recorded on the SD memory card

It is possible to play H.264 video file saved on the SD memory card on the camera using the operation window.

Note:

- Files saved in JPEG format cannot be played.
- Only a single user can perform playback. When playback is being performed by other user, playback is unavailable.
- Playback will not end at the end point of the file. Playback of the next file will automatically start.
- When many images are saved on the SD memory card, it may take time to display images on the operation window.
- Only files saved on the camera that is registered as an independent camera can be played.
- When using this product in a country utilizing Summer Time (Daylight Saving Time), select "Auto" for the "Summer time (daylight saving)" setting of the camera in use. In this case, make sure that the "Start time & date" and "End time & date" settings are correctly set. When "Auto" is not selected for "Summer time (daylight saving)" or the "Start time & date" and "End time & date" settings are not correctly set, playback time may become incorrect or a black screen may be displayed.
- The playback is not available if the recorded time with the pre-event recording crosses the summer time switching zone.

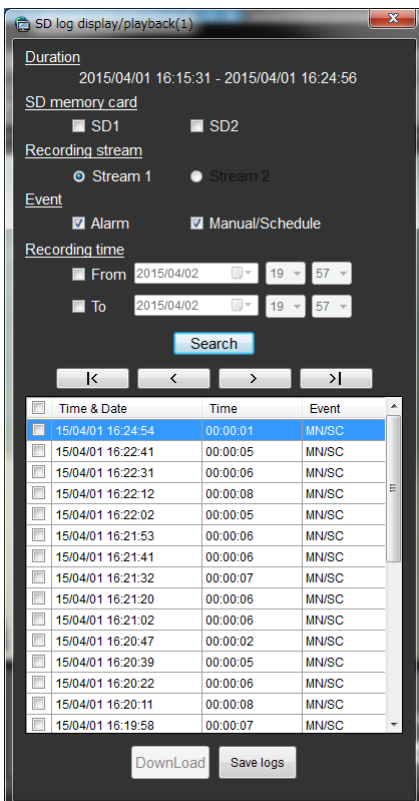
Step 1

Display live images.

→ Refer to the "Monitor live images" section for how to display live images (☞ page 55).

Step 2

Display the "SD log display/playback" window from the SD operation panel.



→ Refer to the "Download recorded images" section (☞ page 83) for further information about the panel.

Step 3

Click an item to be played in the log list.

→ Images displayed on the operation window will be switched to playback of recorded images. The [Status] icon in the information display area will turn to [SD playback] from [Live].



Note:

- When the checkbox is checked, playback will not start.
- Playback will start from the time displayed in the list.

Step 4

To stop playback, click the [STOP] button.

→ Live images will be displayed in the image display area where playback images are being displayed. The [Status] icon displayed in the information display area will turn to [Live] from [SD playback].



Playback

It is possible to play recorded images stored on the recorder using the operation window of this software.

Note:

- Speed of image load may become slow when the processing load is too heavy on the recorder or on the PC (such as when many cameras are connected, when displaying many recorded images, etc.) or when the network traffic is heavy.
- When playing recorded images on a multi-screen, sometimes the recording time synchronization of the displayed recorded images may not be performed.
- Recorded audio can be played depending on recorder model.
- Audio will be output only when playing images forward at 1x speed.
- Audio may be interrupted depending on the network environment.
- The video output may sometimes be ahead of the audio output.
- When there is no image recorded by the selected camera, a black screen will be displayed.
- When displaying and playing images from a camera that is not registered in the recorder, a black screen will be displayed.
- Even after the license for the WV-ASE202 is added and while live images are being displayed on a 25-screen or more, the maximum number of areas (multi-screen pattern) will become 16-screen after recorded images are displayed.
- When playing recorded images using ASR500, due to image buffering, the image refresh interval may become 1 second or playback may pause regardless of the frame rate specified for recording.
- When audio of the network microphone is not played, check if the "Mic input" or "Interactive(Full-duplex)" is selected for the "Audio transmission/reception" of the linked camera.
- When the camera selection is changed during playback while "ON" is selected for "Resume playback at camera switching", the playback of images from the newly selected camera will start from a point at the same playback time of the playback of images from the previously selected camera when the camera is switched since the playback time is taken over even though the camera is switched. When "OFF" is selected, live images from the newly selected camera will be displayed. Refer to the WV-ASM200 Setup Instructions (PDF) for how to configure the setting.

Step 1

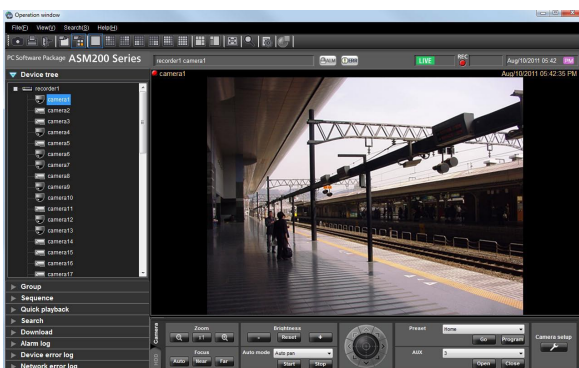
Display live images.

- Refer to the "Monitor live images" section (page 55) for how to display live images.

Step 2

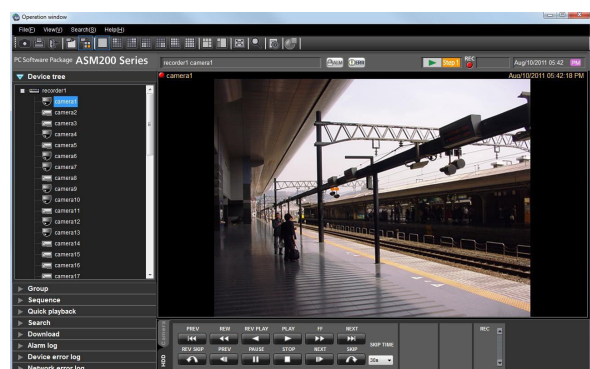
Click the [HDD] tab.

- The playback operation panel will be displayed.

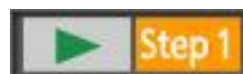


Step 3

Click the [PLAY] button.



- Playback image will be displayed in the image display area where live images are being displayed. The live indication displayed in the information display area will turn to the playback indication.



Note:

- Playback will start from the latest recorded image.
- When using ASR500, playback will be performed while buffering recorded images. In the state of buffering, the following status will be displayed. The image refresh interval may become 1 second or playback may pause while this status is being displayed.



Step 4

To stop playback, click the [STOP] button.

- Live images will be displayed in the image display area where playback images are being displayed. The playback indication displayed in the information display area will turn to the live indication.



Note:

- Operate the playback images using the buttons on the playback operation panel. Refer to the "Playback operation panel" section (page 38) for further information about the buttons on the playback operation panel.
-

Restrictions during playback continuation

The following restrictions will be applied to the "Resume playback at camera switching" function. Please use this function after understanding the content. (Refer to the WV-ASM200 Setup Instructions (PDF) for how to configure the setting.)

- Before changing to playback, live images will be displayed temporarily. At this time, a black screen may be displayed due to the disconnection of the camera with the recorder or the exceeding number of users. Though this momentary live image display may not occur when displaying images on a multi-screen, the [Status] icon on the information display area may change to [Live] for a moment.
- If recording of images from the newly selected camera is not performed in the same period when recording of images from the previously selected camera, images recorded at a totally different time may be played or a paused image may be displayed at the end of playback.
- When the newly selected camera is not connected with the recorder, a black screen will appear and the [Status] icon in the information display area will turn to [Live].
- The "Resume playback at camera switching" function remains valid even when the camera is changed by the following operations. When a camera not connected with a recorder is included among the selected camera or group, a black screen will be displayed.
 - Change the camera by clicking a device tree icon
 - Change the camera by clicking an icon on the map
 - Change the camera by clicking a group icon
 - Change the camera using a system controller (WV-CU950)

Play images using the "Quick playback" panel

Search and playback of recorded images can be easily performed when using the "Quick playback" panel. There are three ways to play recorded images as follows.

- Play recorded images from the search result list displayed after searching by designating the recording time
- Play recorded images from the search result list displayed after searching by designating the time & date of SD memory data
- Play the latest recorded image

Note:

- When displaying images on a multi-screen, playback images will be displayed in all areas.
- It is impossible to play SD memory data on a multi-screen.
- When the SD memory data contains not many frames, playback may sometimes not be performed in a normal manner. (A black screen may be displayed, or speed of image load may become slow, etc.) In this case, display the image with frame playback/ reverse frame playback.

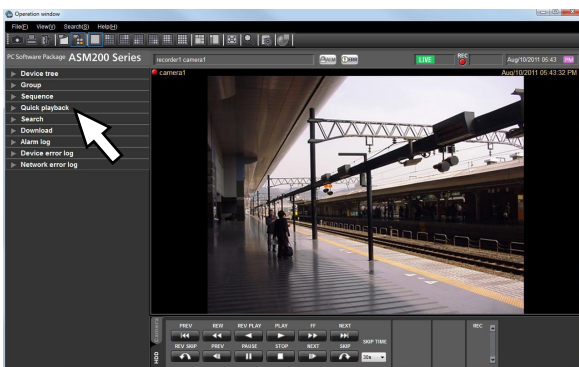
Step 1

Display live images from the recorder to be searched.

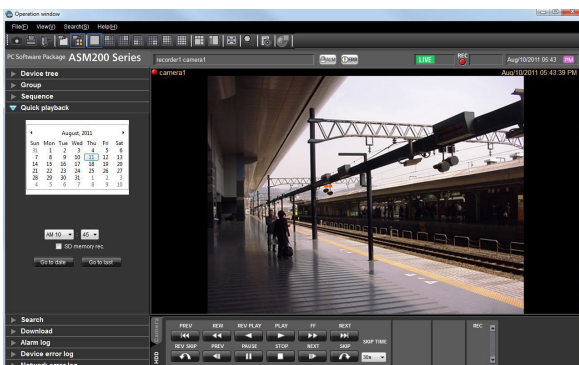
→ Refer to the "Monitor live images" section (page 55) for how to display live images.

Step 2

Click the "Quick playback" bar on the function panel.



→ The "Quick playback" panel will be displayed.



The following are descriptions about each item displayed on the "Quick playback" panel.

■ Calendar/time

Select time & date from "Jan/01/2005" - "Dec/31/2034".

Select a number for hour from "AM12" - "PM11".

Select a number for minute (1 minute step).

Note:

- When the software in use is European specification, select the time & date from the following.
Date: Between "01/01/2005" and "31/12/2034"
Hour: Between "0" and "23"
Minute: Between "00" and "59" (1 minute step)

■ SD memory rec.

Check this checkbox to search for recorded images from the SD memory data.

Note:

- When displaying images on a multi-screen, it is impossible to check the checkbox.

■ [Go to date] button

Click this button to start playback of images recorded at the selected time & date.

■ [Go to last] button

Click this button to start playback of the latest recorded images.

Step 3

Select the desired time & date.

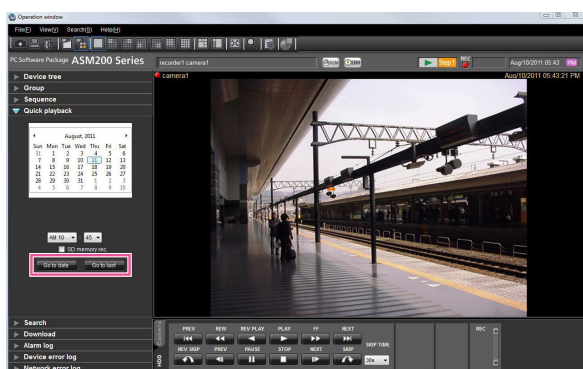
Note:

- It is unnecessary to designate the time & date when playing the latest recorded image. The latest recorded image to be played is determined according to the setting of the recorder. Refer to the operating instructions of the recorder in use for further information.

Step 4

Click the [Go to date] button or the [Go to last] button.

→ Images recorded at the selected time & date or the latest recorded image will be played in the image displayed area.



Note:

- When playing MPEG-4 or H.264 images, playback may start from a point several seconds after the designated time & date. Sometimes, playback may start from the beginning of the next record.
- When playback cannot be performed correctly even when designating the time & date of the SD memory data to be searched, it may be possible that there is no image recorded by the SD memory recording.

Play using the timeline playback operation panel

Note:

- When playing images from cameras connected to multiple recorders, synchronization of the timeline seek bar may sometimes not be correct.
- The timeline to be displayed is only the range obtained by the timeline service. Even for the recorded data, if it exceeds the recording data acquiring range, the timeline will not be displayed. Also, the timeline may not be displayed in the range where data acquisition, such as latest time, cannot be completed. At this time, only the timeline seek bar will be displayed during playback.
- When playing images in recorders whose settings for the daylight saving time are not the same, the time to be displayed for the timeline seek bar may not be the same.
- For the recorder in which "Hour meter warning" is occurred, the timeline may not be displayed due to data acquisition failure in the timeline service.

Step 1

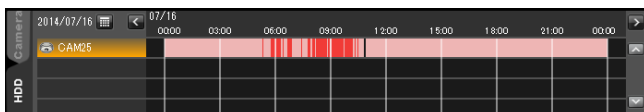
Display live images from the recorder for which the timeline is to be displayed.

→ Refer to the "Monitor live images" section for how to display live images (page 55).

Step 2

Click the [HDD] tab.

→ The timeline playback operation panel will be displayed.



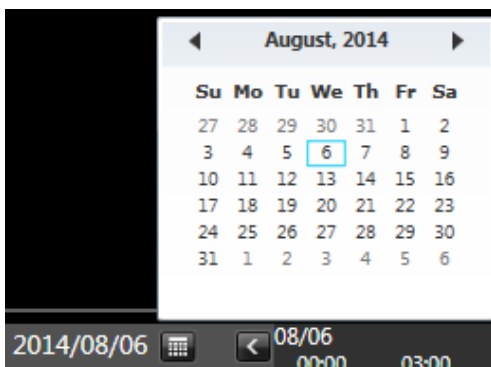
Refer to the "Timeline playback operation panel" section (page 40) for further information about images.

Note:

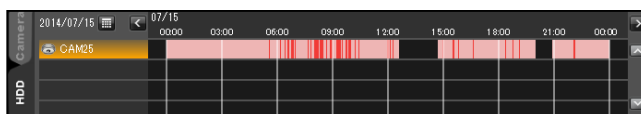
- The timeline playback operation panel will be displayed when "ON" is selected for "Timeline display" on the setup software. Refer to the WV-ASM200 Setup Instructions (PDF) for further information.

Step 3

Select desired date to start playback.



→ The timeline of the selected date will be displayed.

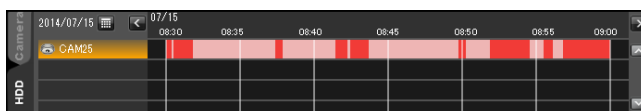


Note:

- Timeline will not be displayed if it is out of the period specified on "Number of acquired days" on the setup software. Refer to the WV-ASM200 Setup Instructions (PDF) for further information.

Step 4

Adjust time to a desired point while performing the enlargement/reduction display using the time axis scale change slider.



Step 5

Double-click on a desired time to start playback on the timeline.

→ Playback of the recorded images of the selected time will start.

Note:

- When playing MPEG-4 or H.264 images, playback may start from a point several seconds after the designated time & date. Sometimes, playback may start from the beginning of the next record.

Start/stop recording manually

Note:

- To perform manual recording, login by the user with the level of manual recording and playing authorization is required.
- Manual recording is not available for NV200 and NV300.
- Manual recording is not available when using ASR500.

Step 1

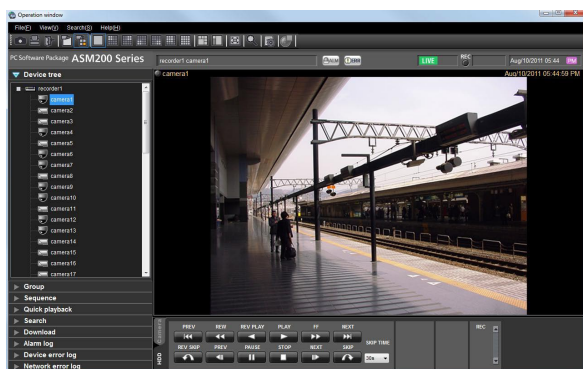
Display live images from the recorder to be used for recording.

→ Refer to the "Monitor live images" section (page 55) for how to display live images.

Step 2

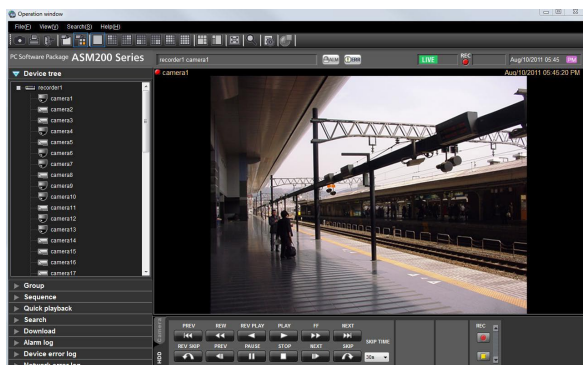
Click the [HDD] tab.

→ The playback operation panel will be displayed.



Step 3

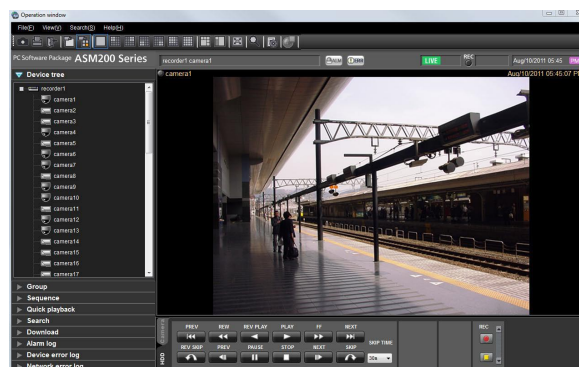
Click the [▲]/[▼] buttons in the "REC" box. The [REC START] button and the [REC STOP] button will be displayed.



Step 4

Click the [REC START] button.

→ Recording will start. The REC indicator of the camera channel used for recording will light red.



Step 5

To stop recording, click the [REC STOP] button.

→ The REC indicator will go off.

Note:

- When another recording such as by an alarm occurrence is being performed, the REC indicator will not go off and only the manual recording will stop. Refer to the operating instructions of the recorder in use for further information about the recording.

Search

Search recording event

Search for a recording event as follows.

It is possible to search for the following recording events by designating the search target; recorders, groups and maps.

- Manual
- Terminal alarm
- SD memory rec.
- i-VMD
- Terminal
- Motion
- Schedule
- Command alarm
- EVENT LINKING (ASR500)
- Removal and left behind
- Loitering
- Emergency
- VMD
- Direction
- Scene change
- Site alarm
- Video loss

Note:

- Only "SD memory" is unavailable to search together with other recording event types. To search for the SD memory data, search for the SD memory data alone.
- Up to 1000 search results will be displayed. When more than 1000 search results are found, the latest 1000 search results will be displayed in the search result list. When searching in multiple recorders, number of search results per a recorder will be (1000/number of recorders).
- i-VMD search is available only when HD600 is selected for the search target.
- When searching via ASR500 to find images recorded at the recording frame rate of "1fps", it may take time when compared with search in the conventional recorders.

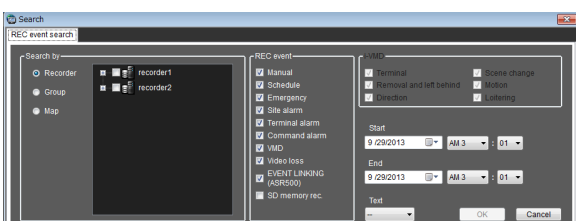
Determine the search conditions

Search for images by designating time & date, camera channel and recording event type (REC event search).

Step 1

Select "Search(S)..." under "Search(S)" on the menu bar or click the [Search] icon on the tool bar.

The "Search" window will be displayed.

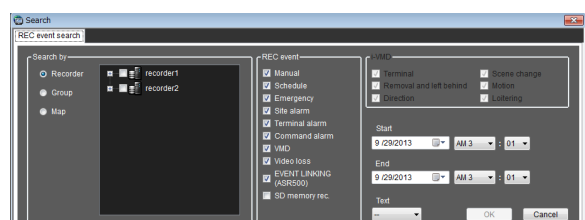


Step 2

Determine the search conditions.

<When recorders are to be searched>

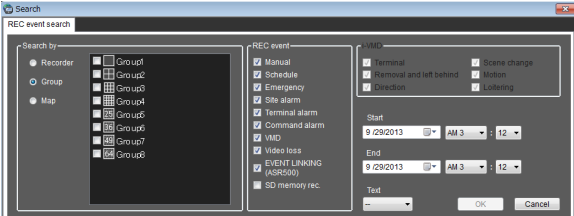
1. Select "Recorder" for "Search by".
→ The registered recorders will be displayed in the tree view.



2. Select the recorders and the cameras to be searched.
3. Select the recording events to be searched.
4. Designate the time range to be searched by setting the start time and the end time.
5. Determine to search for recorded images with text information or without it.

<When groups are to be searched>

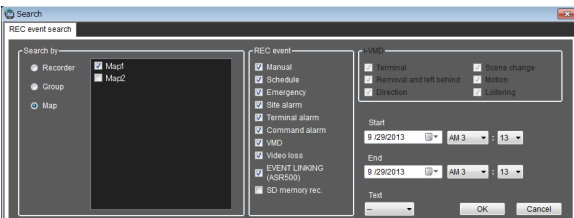
1. Select "Group" for "Search by".
→ The registered groups will be displayed in list form.



2. Select the groups to be searched.
3. Select the recording events to be searched.
4. Designate the time range to be searched by setting the start time and the end time.
5. Determine to search for recorded images with text information or without it.

<When maps are to be searched>

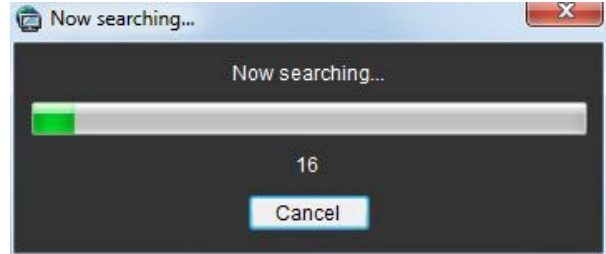
1. Select "Map" for "Search by".
→ The registered maps will be displayed in list form.



2. Select the maps to be searched.
3. Select the recording events to be searched.
4. Designate the time range to be searched by setting the start time and the end time.
5. Determine to search for recorded images with text information or without it.

Step 3

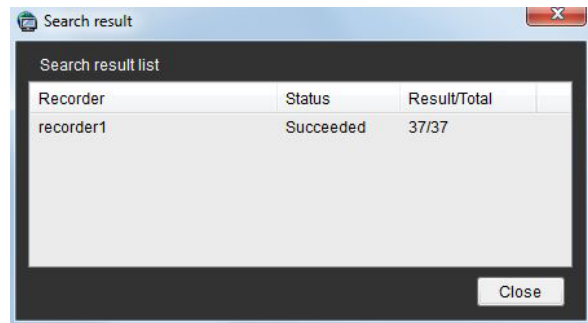
- Click the [OK] button.
→ Search will start and the window with the progress bar will be displayed.



Note:

- When playback is being performed on the operation window, playback will stop and live images will be displayed.
- Search result will keep on being added to the search result list while the window with the progress bar is being displayed. When the [Cancel] button is clicked while the window with the progress bar is being displayed, search results added to the search result list until the [Cancel] button is clicked will not be deleted.

- When the search is complete, the "Search result" window will be displayed.



Step 4

- Click the [Close] button.
→ The confirmation window will close.

Note:

- The search results will be displayed with the following information; time & date, recorder title, camera title, recording event type, with or without text.
- When a result is clicked, the "Search" window will close and the selected image will be displayed on a 1-screen. When playback of the selected result starts, the descriptions of the selected result will be displayed in the search panel of the operation window. Refer to the "Play recorded images using the "Search" panel" section (page 100) for further information about the "Search" panel.
- Once a playback is performed from the search results, the search result will not be deleted until a new search is performed or until the user logged out or exit the software.

Search for times and dates of motion-containing images

The times and dates of images containing a motion are searched for from recorded images.

Note:

- This function is available only with ND400, HD600, NV200 or NV300.
- If ND400, HD600, NV200 or NV300 is registered, the VMD search tab will be displayed.
- Up to 200 search results can be displayed.

Determine the search conditions

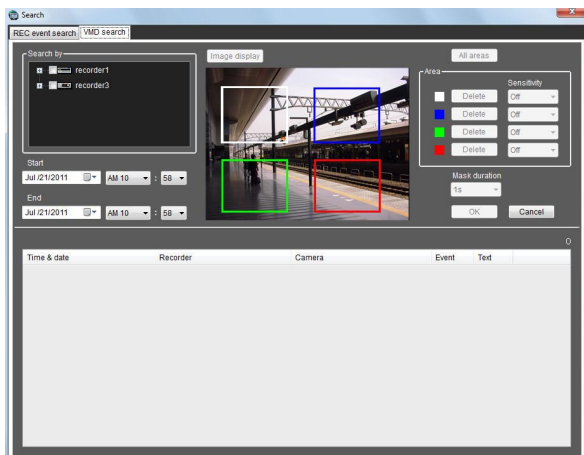
The time & date, camera channel, and motion detection area are specified to perform searching. (VMD search)

Step 1

Select "Search(S)..." under "Search(S)" on the menu bar or click the [Search] icon on the tool bar.

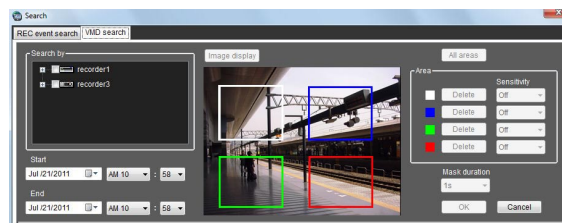
Step 2

Click the [VMD search] tab on the search window.
→ The "VMD search" window will be displayed.

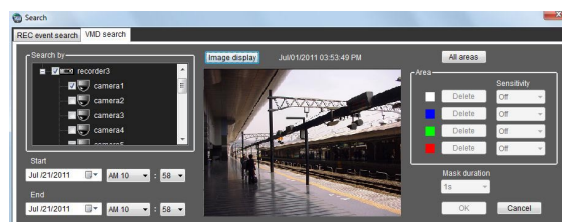


Step 3

Determine the search conditions.



1. Select a recorder and a camera to be searched for from the search target list. Only one recorder and one camera are selectable.
2. Designate the time range to be searched by setting the start time and the end time.
3. Click the [Image display] button.
→ The image of the camera to be searched for is displayed.



Note:

- The image on the operation window will be cleared.
-

4. Specify areas by dragging on the image area.
Up to 4 areas can be specified.
-

Note:

- When the recorder to be searched is the HD600 and the image of the camera is specified for the detection area from the top to bottom, search will be unavailable. (The area whose search will be available is the same as that configured on the HD600.)
-

Step 4

Click the [OK] button.

- Search will start and the window with the progress bar will be displayed. When the search is complete, the "Search result" window will be displayed.

Refer to "Play recorded images from the search result list" (☞ page 99) for playback from the search result list.

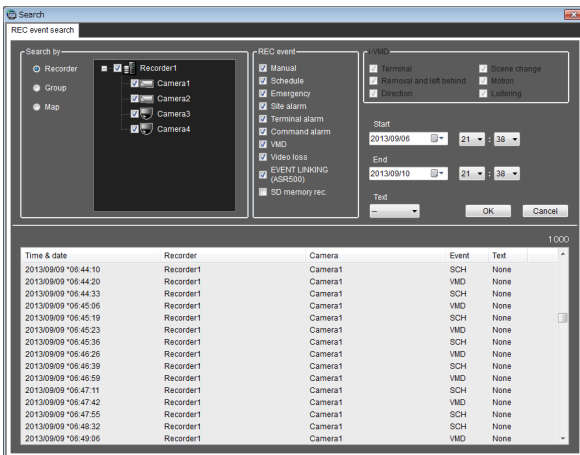
Play from the search results

Play recorded images from the search result list

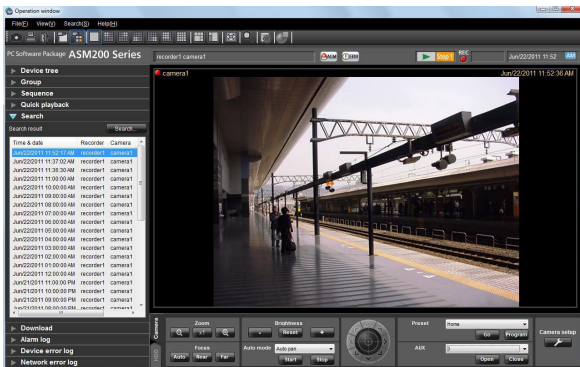
It is possible to play images displayed in the search result list.

Step 1

Click the desired result displayed in the search result list.



→ The "Search" window will close and the images of the selected result will be displayed on a 1-screen in the image display area.



Note:

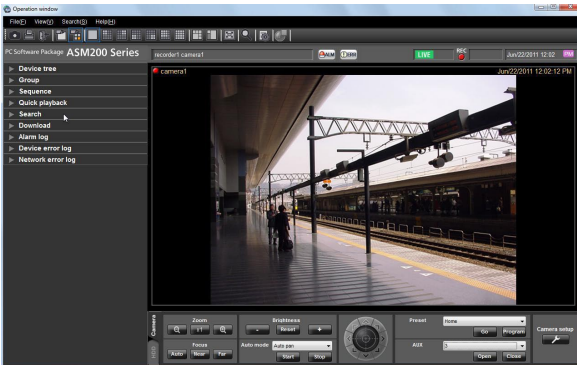
- Playback of the search result is also available by clicking a desired result displayed in the "Search" panel. Refer to the "Play recorded images using the "Search" panel" section (page 100) for further information about the "Search" panel.

Play recorded images using the "Search" panel

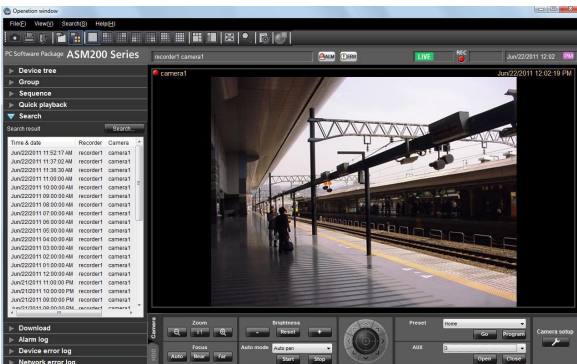
The description of the search results displayed in the search result list will be displayed in the "Search" panel in list form. Play recorded images of the desired result displayed in the "Search" panel as follows.

Step 1

Click the "Search" bar on the function panel.



→ The "Search" panel will be displayed.



The following are descriptions about each item displayed on the "Search" panel.

■ [Search...] button

Click this button to display the "Search" window.

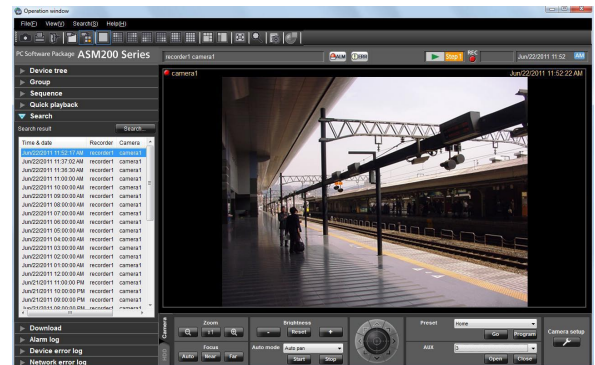
■ Search result list

The search results will be displayed with the following information; time & date, recorder title, camera title, recording event type, with or without text.

Step 2

Click the desired result displayed in the search result list.

→ Recorded images of the selected result will be displayed on a 1-screen in the image display area.



Note:

- When clicking a result displayed in the search result list, recorded images of the respective result will be displayed on a 1-screen. When playback is started, all images displayed in the image display areas will be cleared.
- When right-clicking on the search result list, the pop-up menu will be displayed. Playback of recorded images of the specific group is available by selecting the desired group from the group list displayed on the sub menu of the right-click pop-up menu. (When "SD memory" has been selected for the search, the group playback is unavailable.)
- When playing back images from the search list with ASR500, the recorded image may not be displayed right after the recording is started because the data has not been stored.

Enhance images

Precautions

Important:

- To use the visibility enhancement function, it is necessary to purchase the extension software WV-ASE205.
 - To use the visibility enhancement function, your use requirements shall be met with the recommended operating environment for the extension software WV-ASE205.
-

Recommended operating environment

Item	Details
CPU	Core i7 4770 or faster Core i7 4790 or faster (for image capture size of 3840x2160 or more)
GPU (Graphics card)	GeForce GTX660 or higher*1 *2 GeForce GTX770 or higher (for image capture size of 2048x1536 or more)*1 *2 (The version GeForce 332.21 or later is recommended for the driver software.)

*1: When using the visibility enhancement function, prepare and use a power supply unit compatible with the graphics card in use.

*2: When using the visibility enhancement function, do not use two or more graphics cards.

Note:

- The visibility enhancement function is not supported by ASR500 and HD300. However, live images can be enhanced only when the "camera" is selected for the "live image source" on the "Camera setup" of ASR500.
- When using the visibility enhancement function, displaying images on multi-screen of the operation window is not available.
- When using the visibility enhancement function, the sequence display of the operation window is not available.
- When the operation window is switched to image display on multi-screen while using the visibility enhancement function, the visibility enhancement function will be invalidated.
- When the operation window is switched to the sequence display while using the visibility enhancement function, the visibility enhancement function will be invalidated.
- When any of the following operations are performed while using the visibility enhancement function, the visibility enhancement function will be invalidated.
 - Reverse playback
 - Fast playback
 - Fast reverse playback
 - Reverse frame playback
 - Pause
- When any of the following operations are performed while using the visibility enhancement function, snowfall or rainfall may temporarily be displayed.
 - Skipping to the next recorded image
 - Skipping to the next previous recorded image
 - Skipping to the point of the set amount of time forward
 - Skipping to the point of the set amount of time forward backward
- When the connected device or the PC is under heavy load, the image refresh rate or the switching speed of the visibility enhancement function may become slower depending on the network environment.
- The recommended frame rate is 5 fps to 30 fps. When capturing fast-moving objects or noisy objects, set the frame rate to 10 fps or more.
- The bit rate shall be set to a higher value according to the resolution.
- When displaying images whose contrast is very low, images may sometimes not be enhanced.
- The higher the resolution is set, the sharper details of images will be.
- Depending on the image quality or the frame rate of input video, expected effects may not be produced.

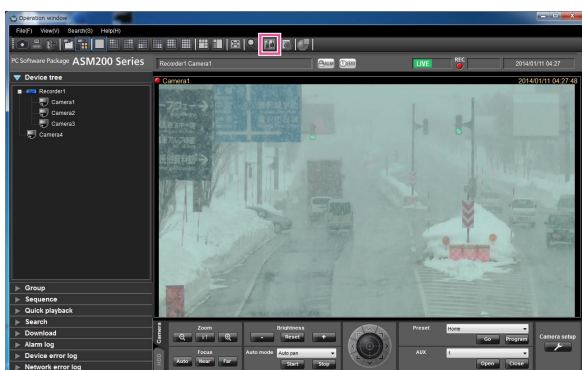
- Set values of the settings for the image quality and the frame rate of input video as high as possible.
- When input video drastically changed by performing the PTZ operation, etc., expected effects may not be produced.
- Including Live window, simultaneous operation of functions of ASM200 may sometimes cause delay in displaying images.
- Under low illumination environment after-image or noise may sometimes emphasized.
- When images are displayed with "5 Cropping" or "1 Cropping", the "Visibility Enhancement" function is unavailable.
- To use the "Visibility Enhancement" function, set the monitor resolution to lower than FULL HD.
- When using a camera with the image capture size of more than 4000 x 3000 while setting the correction mode to "Snowfall and Rainfall", set the frame rate of the camera to "5 fps".
- When using a camera with the image capture size of more than 3840 x 2160, set the "PC diagnosis (4K camera)" of the Setup software to "4K". Refer to the WV-ASM200 Setup Instructions (PDF) for further information.

Remove snowfall and rainfall

Snowfall or rainfall will be removed from images.

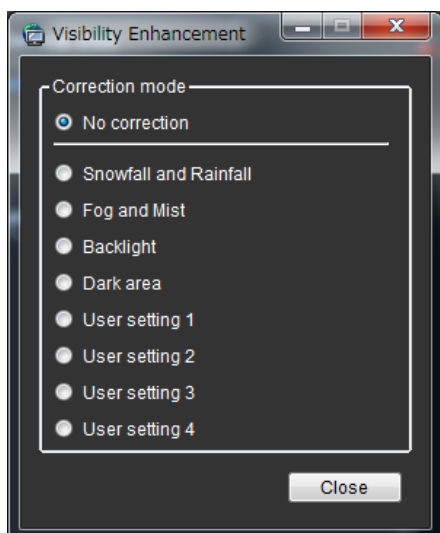
Step 1

Click the [Visibility Enhancement] icon on the operation window.



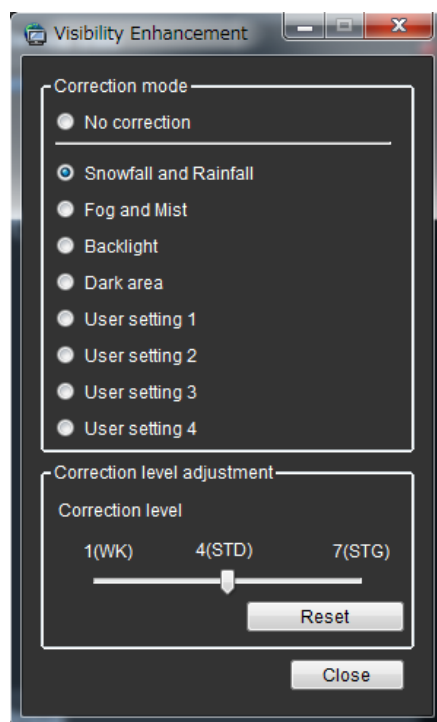
Step 2

Select [Snowfall and Rainfall] in the "Correction mode" section on the "Visibility Enhancement" window.



Step 3

Adjust the correction level using the slider in the "Correction level adjustment" section on the "Visibility Enhancement" window.



Step 4

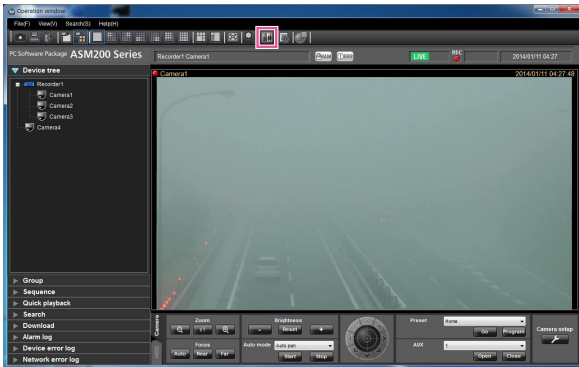
The settings will be saved by clicking the [Close] button on the "Visibility Enhancement" window.

Remove fog or mist

Fog or mist will be removed from images.

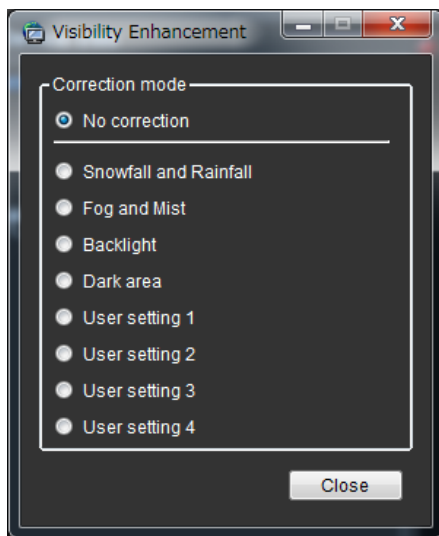
Step 1

Click the [Visibility Enhancement] icon on the operation window.



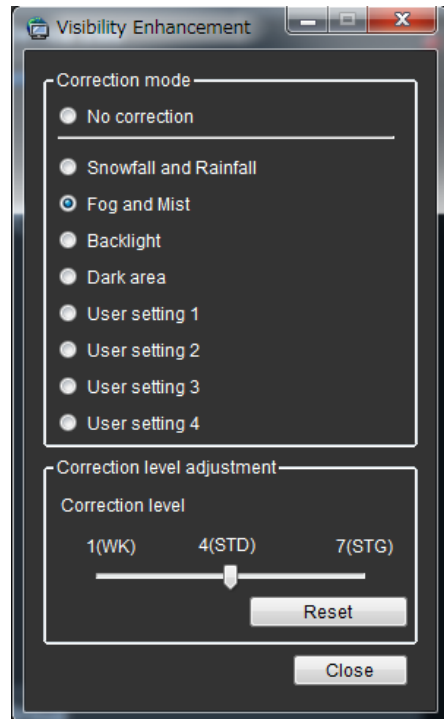
Step 2

Select [Fog and Mist] in the "Correction mode" section on the "Visibility Enhancement" window.



Step 3

Adjust the correction level using the slider in the "Correction level adjustment" section on the "Visibility Enhancement" window.



Step 4

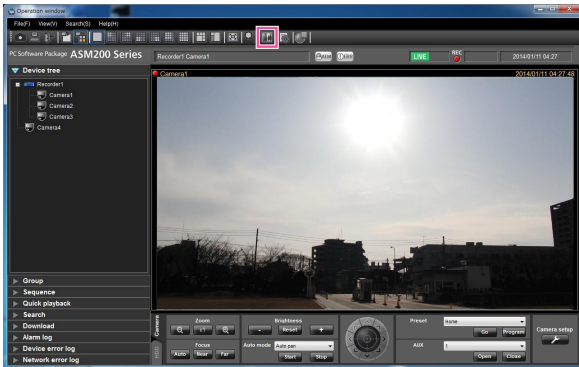
The settings will be saved by clicking the [Close] button on the "Visibility Enhancement" window.

Improve backlight images

It is possible to improve backlight images.

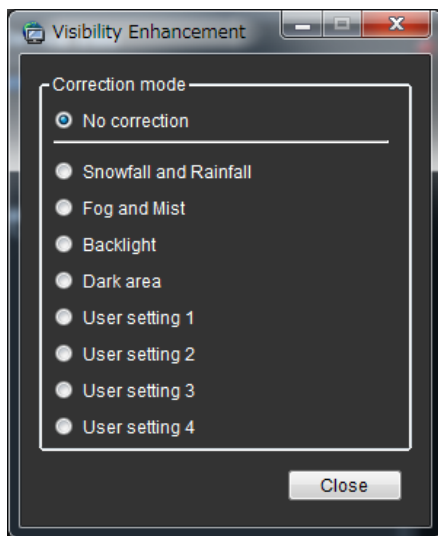
Step 1

Click the [Visibility Enhancement] icon on the operation window.



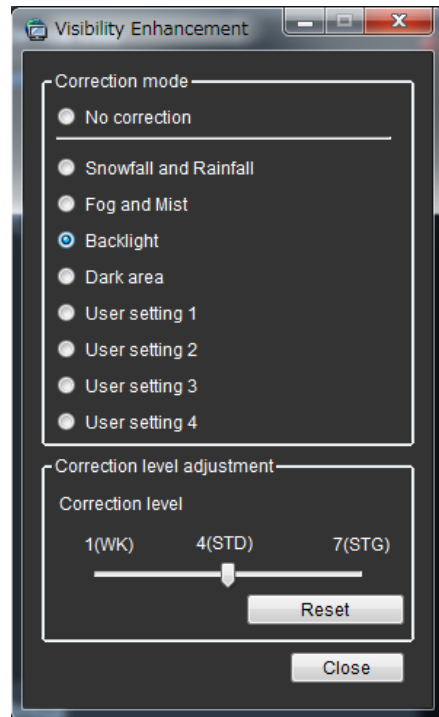
Step 2

Select [Backlight] in the "Correction mode" section on the "Visibility Enhancement" window.



Step 3

Adjust the correction level using the slider in the "Correction level adjustment" section on the "Visibility Enhancement" window.



Step 4

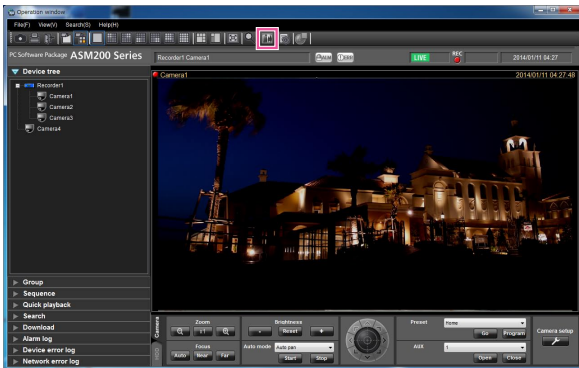
The settings will be saved by clicking the [Close] button on the "Visibility Enhancement" window.

Make a dark area brighter

It is possible to make a dark area brighter.

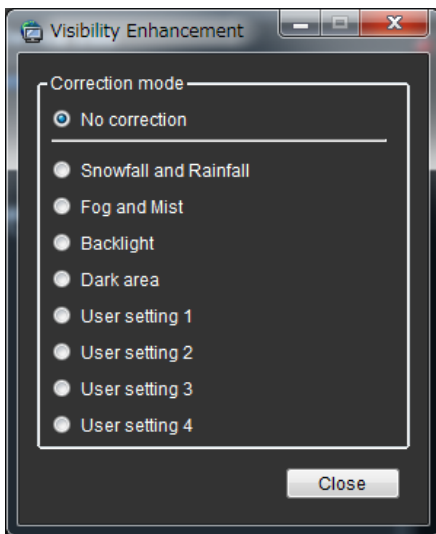
Step 1

Click the [Visibility Enhancement] icon on the operation window.



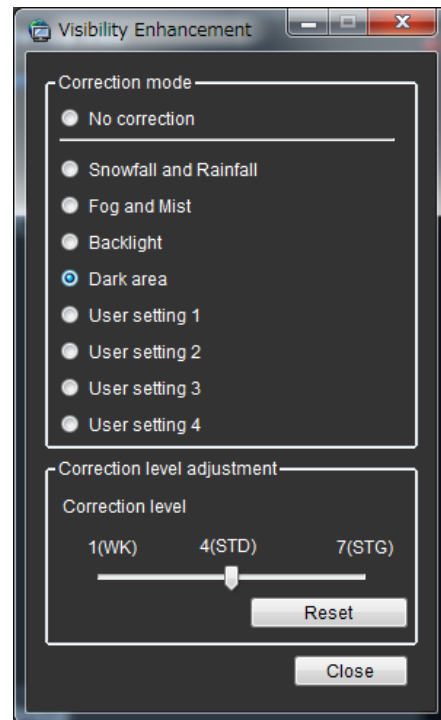
Step 2

Select [Dark area] in the "Correction mode" section on the "Visibility Enhancement" window.



Step 3

Adjust the correction level using the slider in the "Correction level adjustment" section on the "Visibility Enhancement" window.



Step 4

The settings will be saved by clicking the [Close] button on the "Visibility Enhancement" window.

Enhance images using user settings

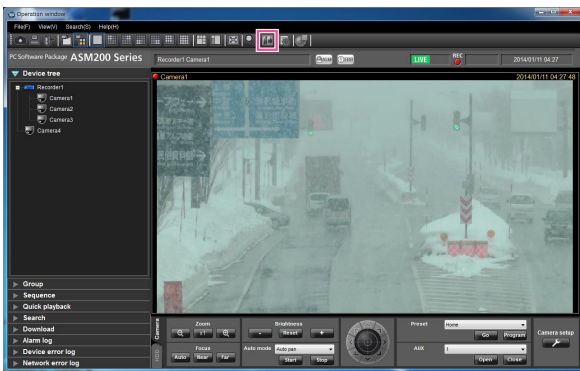
Images can be enhanced by configuring user settings.

Note:

- Level 4 for "Snowfall and Rainfall" is set as the default for each user setting.
- The default names of the user settings are [User setting 1] – [User setting 4].

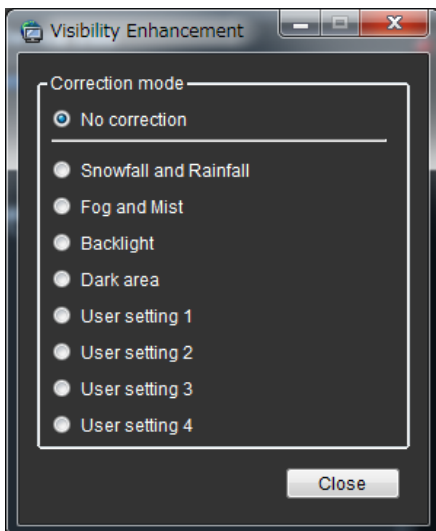
Step 1

Click the [Visibility Enhancement] icon on the operation window.



Step 2

Select any of [User setting1] - [User setting4] in the "Correction mode" section on the "Visibility Enhancement" window.



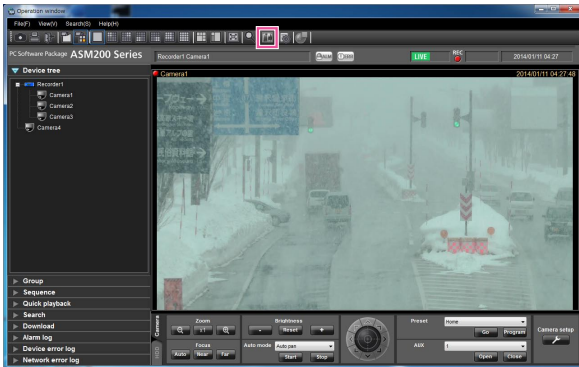
Customize the user settings

Adjust the parameters

All the parameters for the visibility enhancement function can be adjusted

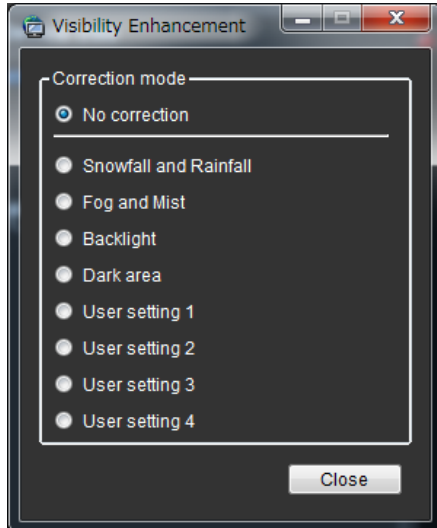
Step 1

Click the [Visibility Enhancement] icon on the operation window.



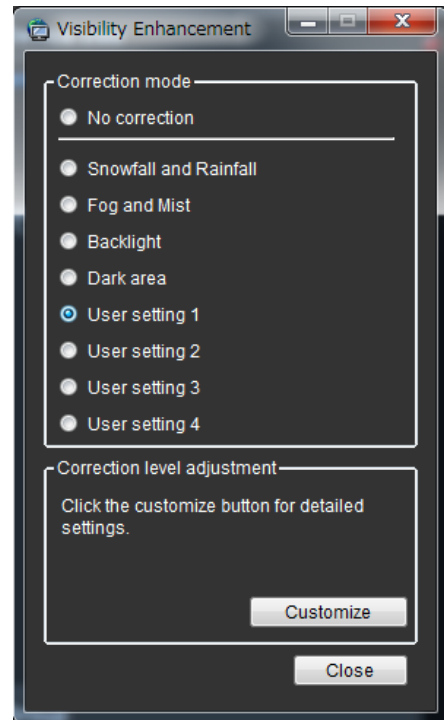
Step 2

Select any of [User setting1] - [User setting4] in the "Correction mode" section on the "Visibility Enhancement" window.



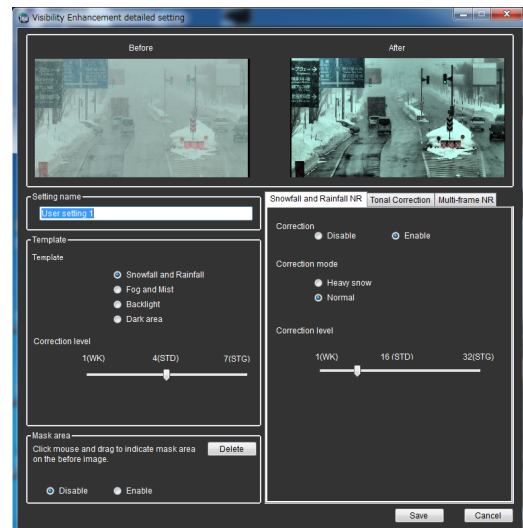
Step 3

Click the [Customize] button in the "Correction level adjustment" section on the "Visibility Enhancement" window.



Step 4

Select a setting to be used as the basis of adjustment on the "Template" section on the "Visibility Enhancement detailed setting" window.

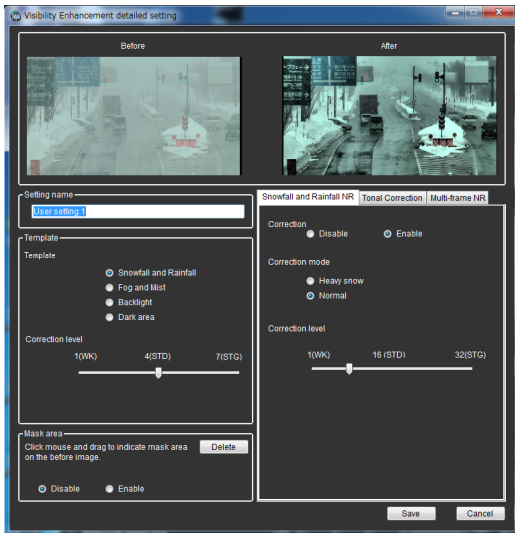


Step 5

Adjust the parameters on each tab page of "Snowfall and Rainfall NR", "Tonal Correction" and "Multi-frame NR" on the "Visibility Enhancement detailed setting" window. Descriptions about each parameter are provided on the "Parameter list table" (page 108).

Step 6

The settings will be saved by clicking the [Save] button on the "Visibility Enhancement detailed setting" window.



Parameter list table

Snowfall and Rainfall NR	Correction	"Snowfall and Rainfall NR" can be turned on and off by selecting "Enable" or "Disable". It is not possible to only enable "Snowfall and Rainfall NR" and "Multi-frame NR".
	Correction mode	Available setting value: Normal, Heavy snow The following correction modes can be selected for "Snowfall and Rainfall NR". Normal: Correction level can be adjusted by setting "Correction level" below. Heavy snow: The maximum correction level will be applied.
	Correction level	Available setting value: 1 - 32 Correction level for "Snowfall and Rainfall NR" can be adjusted. Size of snowflake that can be removed will become larger by setting a larger value. More after-images of moving objects will be reduced by setting a smaller value.
Tonal Correction	Correction	"Tonal Correction" can be turned on and off by selecting "Enable" or "Disable".
	Correction mode	Available setting value: Contrast, Dark area, Bright area, Backlight The following correction modes can be selected for "Tonal Correction". Contrast: Improve visibility of low-contrast images Dark area: Improve visibility especially of dark area Bright area: Improve visibility especially of bright area Backlight: Improve visibility of image in which extremely bright and dark areas exist

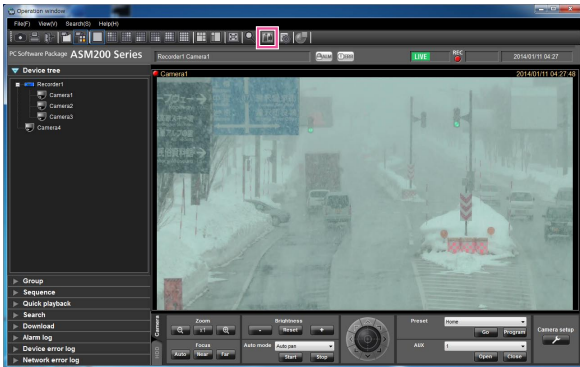
Tonal Correction	Correction level	Available setting value: 0 - 255 Correction level for "Tonal Correction" can be adjusted.
	Brightness	Available setting value: 0 - 255 Brightness can be adjusted.
	Chroma level	Available setting value: 0 - 255 Colors can be enhanced.
	Correction radius	Available setting value: 0 - 255 When a larger value is set, well-balanced correction will be applied to the whole image. When a smaller value is set, contrast in a partial range will be enhanced. When a smaller value is set, processing load will become heavier and it may cause video delay.
Multi-frame NR	Correction	"Multi-frame NR" can be turned on and off by selecting "Enable" or "Disable". It is not possible to only enable "Snowfall and Rainfall NR" and "Multi-frame NR".
	Correction level	Available setting value: 0 - 36 Correction level for "Tonal Correction" can be adjusted.
	Motion type	Available setting value: Fixed, Pan, Pan/ Tilt, Pan/ Tilt/ Zoom, Free Select a motion type of frame to align frame position. When many frame motion type are used, processing load will become heavier and it may cause video delay. Fixed: Select this when frame does not move, such as a fixed camera. Pan: Select this when frame moves horizontally only. Pan/ Tilt: Select this when frame moves horizontally and vertically. Pan/ Tilt/ Zoom: Select this when frame moves horizontally and vertically, and also zooms in and out, such as a PTZ camera. Free: Select this when frame moves horizontally and vertically, zooms in and out, and also rotates, such as a wearable camera.
	Accuracy	Available setting value: 1-16 Accuracy of position alignment between frames can be adjusted.
	Range	Available setting value: 1-16 Range of position alignment between frames can be adjusted.
	Detection mode	Available setting value: Normal, Fast Moving object detection will be performed. When "Fast" is selected, only pixel-level detection will be performed.
	Detection level	Available setting value: 0-15 Moving object detection level can be adjusted.

Edit the name

Name of the selected user setting can be edited. Enter up to 16 characters for the name.

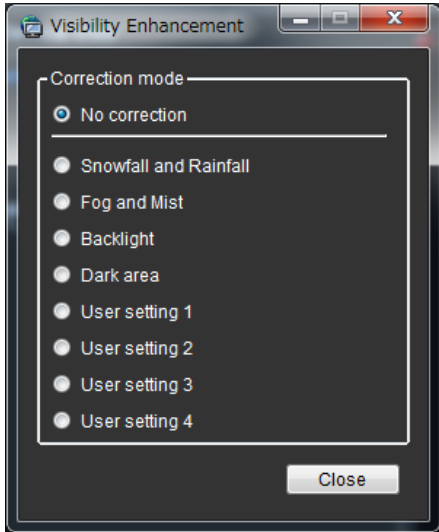
Step 1

Click the [Visibility Enhancement] icon on the operation window.



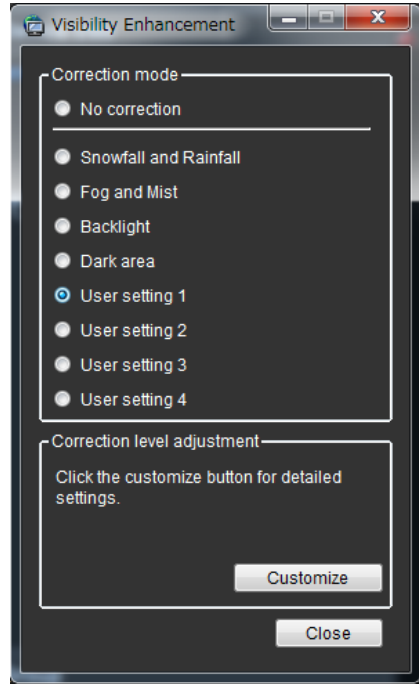
Step 2

Select any of [User setting1] - [User setting4] in the "Correction mode" section on the "Visibility Enhancement" window.



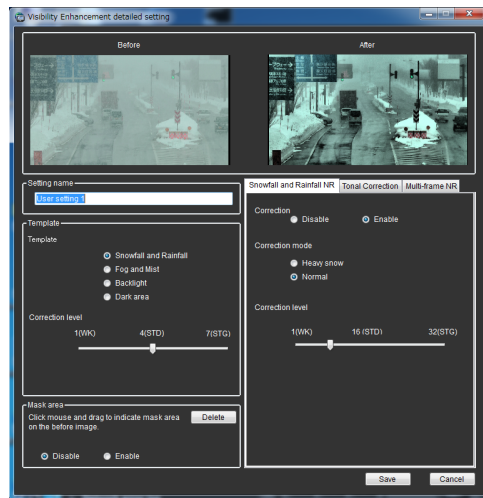
Step 3

Click the [Customize] button in the "Correction level adjustment" section on the "Visibility Enhancement" window.



Step 4

Enter a name for the setting in the "Name" section of "Visibility Enhancement detailed setting" window.



Step 5

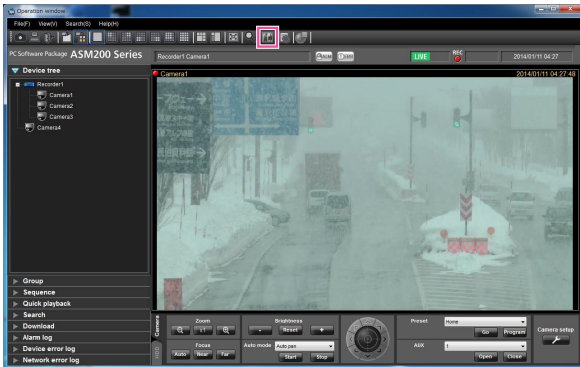
The settings will be saved by clicking the [Save] button on the "Visibility Enhancement detailed setting" window.

Set a mask area

Areas to which the visibility enhancement function is not to be applied can be set.

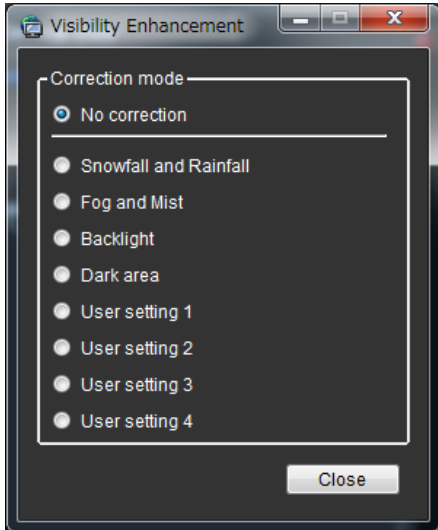
Step 1

Click the [Visibility Enhancement] icon on the operation window.



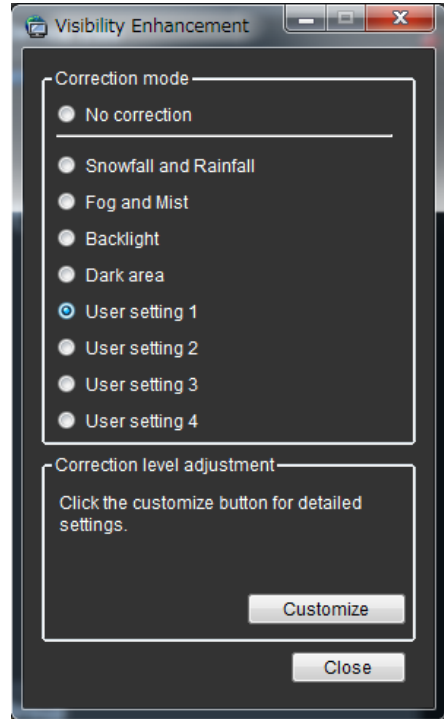
Step 2

Select any of [User setting1] - [User setting4] in the "Correction mode" section on the "Visibility Enhancement" window.



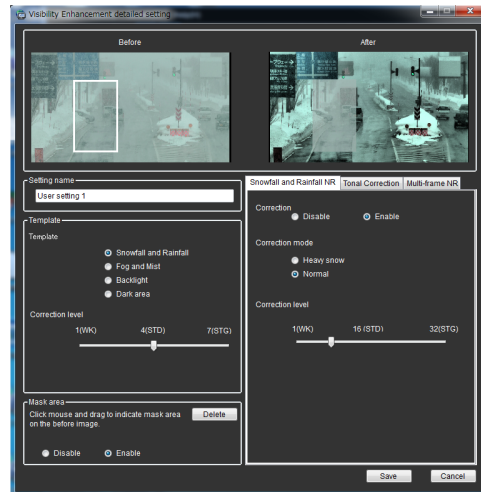
Step 3

Click the [Customize] button in the "Correction level adjustment" section on the "Visibility Enhancement" window.



Step 4

Check the "Enable" checkbox in the "Mask area" section on the "Visibility Enhancement detailed setting" window.



Step 5

Select a mask area by dragging the mouse in the "Image before correction" section on the "Visibility Enhancement detailed setting" window.

Step 6

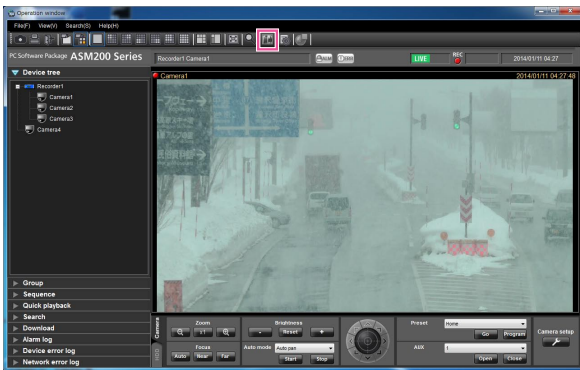
The settings will be saved by clicking the [Save] button on the "Visibility Enhancement detailed setting" window.

Delete a mask area

Delete a mask area.

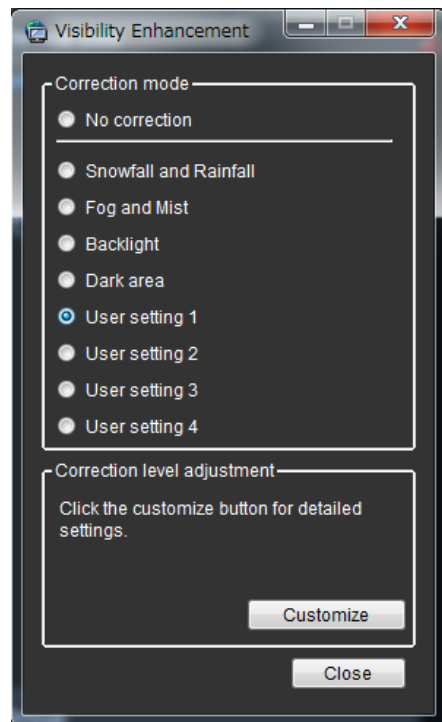
Step 1

Click the [Visibility Enhancement] icon on the operation window.



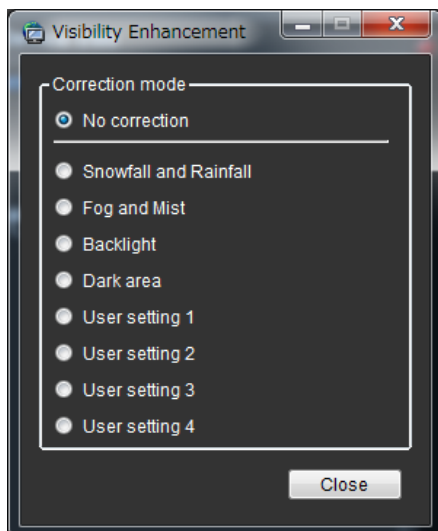
Step 3

Click the [Customize] button in the "Correction level adjustment" section on the "Visibility Enhancement" window.



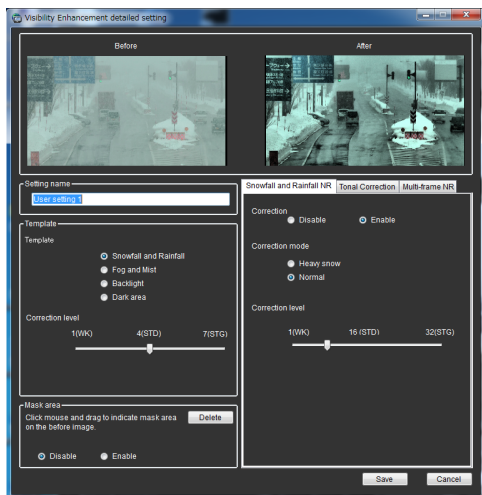
Step 2

Select any of [User setting1] - [User setting4] in the "Correction mode" section on the "Visibility Enhancement" window.



Step 4

Click the [Delete] button in the "Mask area" section on the "Visibility Enhancement detailed setting" window.



Step 5

The settings will be saved by clicking the [Save] button on the "Visibility Enhancement detailed setting" window.

In the following cases

Need to remove snowfall and rainfall more

- Enable "Snowfall and Rainfall NR".
- Select "Heavy snow" for "Correction mode" of "Snowfall and Rainfall NR".
- When "Normal" is selected for "Correction mode" of "Snowfall and Rainfall NR", adjust the correction level higher.

Note:

- Appearance of afterimage of a moving object or disappearance of moving object itself may sometimes occur as a result of removing snowfall and rainfall.
-

Need to remove fog and mist more

- Enable "Tonal Correction".
- Select "Contrast" for "Correction mode" of "Tonal Correction".
- Set a smaller value for "Correction radius" of "Tonal Correction".

Note:

- Outline in images may sometimes be excessively emphasized as a result of removing fog and mist.
-

Need to make a dark area more brighter

- Enable "Tonal Correction".
- Select "Dark area" for "Correction mode" of "Tonal Correction".
- Set a larger value for "Brightness" of "Tonal Correction".

Need to improve backlight images more better

- Enable "Tonal Correction".
- Select "Backlight" for "Correction mode" of "Tonal Correction".

Images are too noisy

- Enable "Multi-frame NR".
- Set a larger value for "Correction level" of "Multi-frame NR".

Note:

- Appearance of trajectories of moving objects or disappearance of moving object may sometimes occur as a result of setting a larger value for "Correction mode" of "Multi-frame NR".
-

Appearance of trajectories of moving objects or disappearance of moving object occurred

- Disable "Multi-frame NR".
- Set a smaller value for "Correction level" of "Multi-frame NR".
- Select "Normal" for "Detection mode" of "Multi-frame NR".
- Disable "Snowfall and Rainfall NR".
- Select "Normal" for "Correction mode" of "Snowfall and Rainfall NR".
- Set a smaller value for "Correction level" of "Snowfall and Rainfall NR".

Need to hide the text "This image is enhanced." displayed on images during "Visibility Enhancement"

- Set "Visibility Enhancement Text Display" to "OFF" on the setup software. Refer to the WV-ASM200 Setup Instructions (PDF) for further information.

Search face

Search by time and date

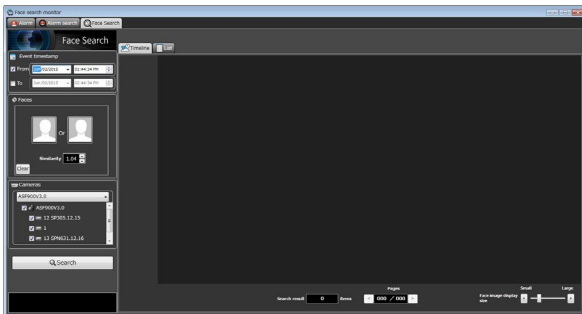
Perform the face search by designating time and date.

Important:

- To use the face search function, it is necessary to purchase WV-ASF900 and the extension software WV-ASE231.

Step 1

Click the [Face Search] tab on the face search monitor.



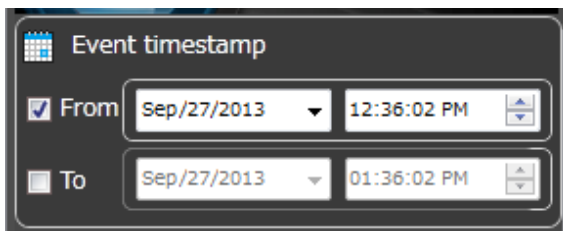
Step 3

Click the [Search] button.

→ The search result list will be displayed.

Step 2

Select the start time and the end time of "Event timestamp".



■ From

Select the start time of period to be searched from "2005/1/1" - "2034/12/31". Select a number for hour from "0" - "23". Select a number for minute (1 minute step).

■ To

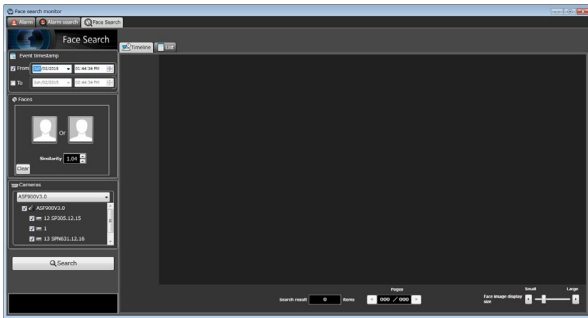
Select the end time of period to be searched from "2005/1/1" - "2034/12/31". Select a number for hour from "0" - "23". Select a number for minute (1 minute step).

Search by face

Perform the face search by designating face features.

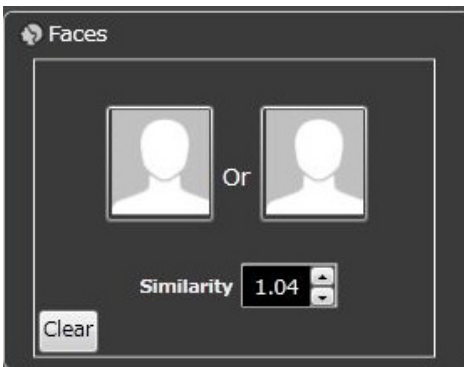
Step 1

Click the [Face Search] tab on the face search monitor.



Step 2

Designate a face image.



Person icon

The face image setting can be configured as follows.

- Display the "List of registered faces" window by left-clicking the person icon, and then select a face image.
- Drag and drop the face image of the search result onto the person icon.
- Right-click on the person icon, and then select from the following menu.
[Select face image from the registered list]
[Select face image from the snapshot]
- Right-click on a face image of paused playback image of ASM200 operation software, and select [Select face image] from the menu. Right-click on a face image in the displayed face image list, and then select [Set to Face Search 1] or [Set to Face Search 2] from the displayed menu.
(* This operation is available only when the "Face Search" page is being displayed.)

Similarity

The search can be filtered by specifying the similarity. Only the images above the specified similarity level will be displayed as search result.

Note:

- This setting is available with WV-ASF900 Ver.3.0 or later.

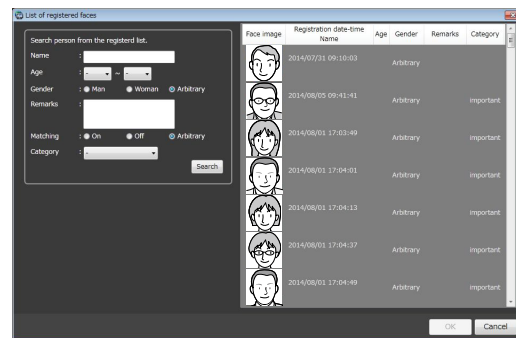
[Clear] button

Clear both images of filter 1 and 2.

It will also restore the default setting of "Similarity".

Designate the person (face image) to be searched

- Select from the registered images
Right-click on the person icon of "Faces" on the "Face Search" page and select [Select face image from the registered list] from the menu.
→ The "List of registered faces" window will be displayed.



Search result

To register a face image from the search result thumbnail in filter 1, right-click on the face thumbnail and select [Set to Face Search 1] from the menu. To register in filter 2, right-click on the face thumbnail and select [Set to Face Search 2] from the menu.

[OK] button

Close the "List of registered faces" window and apply the search condition.

[Cancel] button

Close the "List of registered faces" window and cancel the search condition.

- Select face image from the snapshot
Right-click on the person icon of "Faces" on the "Face Search" page and select [Select face image from the snapshot] from the menu.
→ The "Select face image from the snapshot" window will be displayed.

■ [Ref.] button

Select an image file to be read on the "Select face image from the snapshot" window.

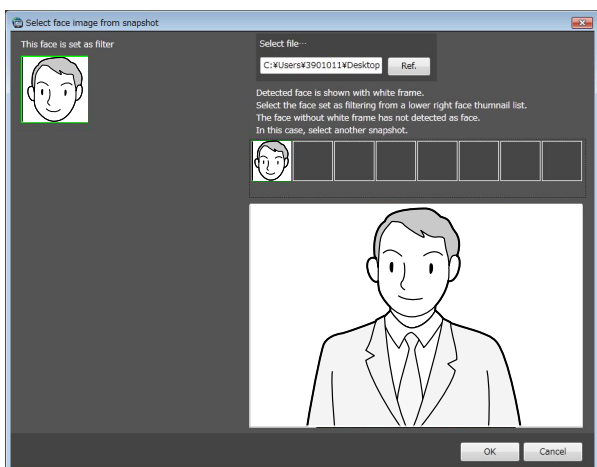
Note:

- The available file formats are JPEG, PNG and BMP.

■ Snapshot display area

When an image file is read out, the face detection process will be carried out and white border frame will be displayed around each face.

The detected faces will be displayed above the image.



■ Image display area for setting the search condition

The selected face image will be displayed.

■ [OK] button

Close the registration window and apply the search condition.

■ [Cancel] button

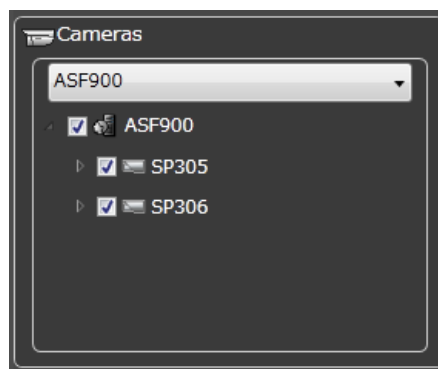
Close the registration window and cancel the search condition.

- Select a face from recorded video
Pause the playback at the point when the target person is displayed. Then right-click on the face image and select [Set to Face Search 1] or [Set to Face Search 2].
→ The "Face thumbnail list" will be displayed in the playback window.

Note:

- The searching image can be changed from the "Face thumbnail list".

Designate the camera to be searched



Check the checkbox of the camera to be searched.

Note:

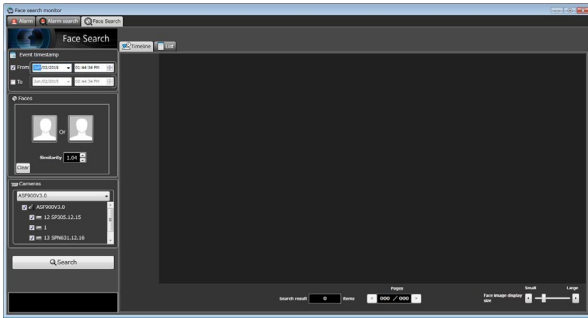
- The cameras obtained by "Face search server registration" of the setup software will be displayed in the tree.
- When the checkbox of parent node (server) is checked, the checkboxes of all the child nodes will be checked automatically.
- When the checkbox of "Parent node (server)" is unchecked, the checkboxes of all the child nodes will be unchecked automatically.

Step 3

Click the [Search] button.

→ The search result list will be displayed.

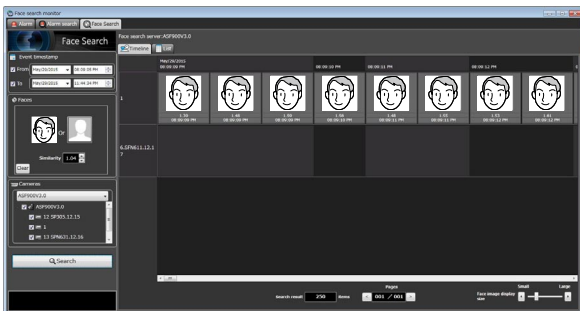
Play recorded image in search result



Click the [Search] button.
 → The search result list will be displayed.
 There are two types of displaying the search result; "Timeline" and "List".

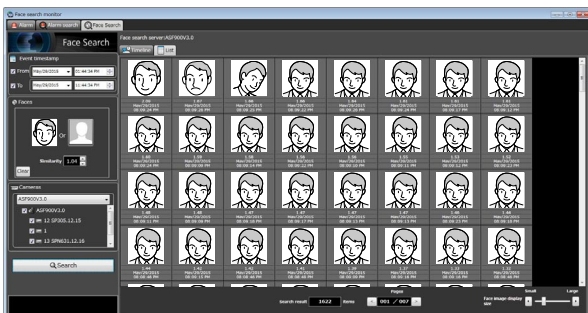
<When displaying in "Timeline">

Click the [Timeline] tab.
 The search result will be displayed with mapped thumbnail images on the plane with two axes of "Time" and "Place".



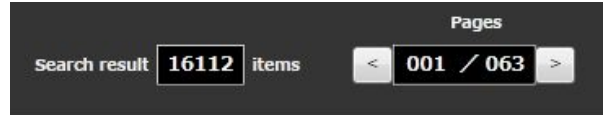
<When displaying in "List">

Click the [List] tab.
 The search result will be displayed with thumbnail images in list form.
 When "Face image" is set for the search condition, the search result will be listed in order of the highest score of similarity.
 When "Face image" is not set for the search condition, the search result will be listed in order of the detection time.



■ Number of the search result, page information

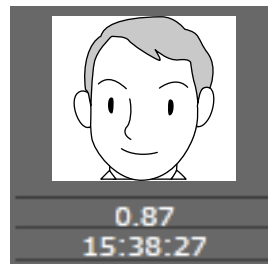
Total number of search result and the page number of the currently displayed page will be displayed as shown below.
 The buttons to turn pages will be displayed as shown below.



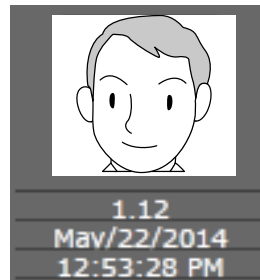
■ Attribute information

In the search result, the face image and the additional information of "Similarity" and "Time" (when image is captured) will be displayed. Also, the "time and date" of the captured image will be displayed in the "List".

<When displaying in "Timeline">



<When displaying in "List">




■ Image Size

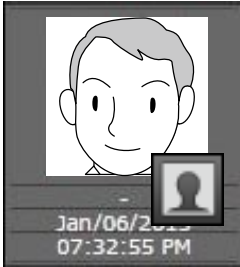
The size of the image to be displayed can be changed by operating the bar.
 The image size can be selected from 5 different sizes. 1 (Small): 72×72, 2: 90×90, 3: 120×120, 4: 140×140, 5 (Large): 180×180




This function is available in the [Timeline] and [List] tabs of the "Face search" page, and the [Timeline] tab of the "Alarm search" page (see page 123).

■ Original size display

The face image can be displayed in its original size. If the cursor is moved over a thumbnail, the  icon will appear.



The face image will be displayed in its original size in another window if the  icon is clicked.

Note:

- The original size image can also be displayed by right-clicking on the thumbnail to show the pop-up menu. Select [Display the original size of this face image].
 - More than two images cannot be displayed.
 - Click the [x] button to close the window.
-

Operation from thumbnail image of search result

The following are available by operation using thumbnail image of search result

- People search
Right-click on the thumbnail image and select [People search] from the menu.
→ The people search for the selected face image will be automatically started.
- Apply to search condition of the people search
Right-click on a thumbnail image and select [Set to People Search 1] or [Set to People Search 2] from the right-click menu.
→ The selected image will be displayed in the section of "Faces" of the "People Search" window.
- Apply to filter of the face search
Right-click on a thumbnail image and select [Set to Face Search 1] or [Set to Face Search 2] from the right-click menu.
→ The selected image will be displayed in the section of "Faces" of the search display window.
- Register as person (face) of whom alarm is to be notified
Right-click on the thumbnail image and select [Newly register this face image] from the right-click menu.
→ The "Select and register face image from snapshot" window will be displayed. ("Register from a face thumbnail image" (☞ page 133))

- Additional registration of a person (face) to the existing registrations of alarm notification
Right-click on the thumbnail image and select [Additionally register this face image] from the right-click menu.
→ The list window of registered face images will be displayed. ("Register 2 or more face images of a same person" (☞ page 140))
- Playback of recorded images
Right-click on the thumbnail image and select [Play the video] from the right-click menu.
→ Image recorded at the alarm occurrence time will be played.
Recorded images will be played on the operation window of the operation software.

Note:

- When the operation window is used with a multi-screen, it will be switched to 1-screen.
 - It is also possible to play recorded images by double-clicking a thumbnail image.
 - The [People search], [Set to People Search 1], and [Set to People Search 2] menus will be displayed only if the people search server exists.
-

Check the alarm notification

Display the "Alarm notification" window

When received a face search alarm notification, contents of the alarm will be displayed in list form.

Step 1

Click the [Alarm] tab on the face search monitor.



The details are as follows.

■ Display the face image to be registered

In the face image registration, the representative face image for which "Constant display" is set will be displayed per category.

(It is available when "ON" is selected for "List of high profile persons" of the setup software.)

If alarm is constantly displayed, it is enclosed with a red frame. It can be undisplayed by clicking the frame.

■ Category

Category name that is set when registering face image

■ Event timestamp

Time and date when the face search alarm is occurred

■ Cameras

Name of the camera that notified of the face search alarm

■ Matching face

Indicates the thumbnail image verified by the face search server

■ Registered face

Indicates the matched face image by the face search in the registered face thumbnail images

■ Name

Indicates the face of the appeared person

■ Remarks

Additional information relating to the registered person (face), etc.

■ Similarity

Score of facial similarity between the registered face image and the detected face image

Note:

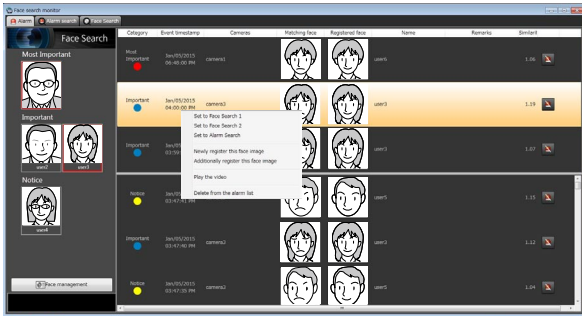
- When displaying a window (such as the search window or the generate report window) other than the "Alarm" page on the face search monitor, the displayed window will not automatically be switched to the "Alarm" page even if received an alarm notification.
 - The "Alarm" page will automatically be displayed by receiving a face search alarm when the face search monitor is not displayed.
 - The list is displayed in two rows. The upper row of the list displays three alarms from the latest. The lower row of the list can be scrolled.
 - When displaying the "Alarm" page for the first time, or when re-opening the face search monitor, latest 100 alarms will be displayed on the screen.
 - When other user deletes the alarms (see page 122), corresponding alarms will be deleted from the list.
-

Play images recorded by the alarm recording

Play images recorded at the alarm occurrence time from the recorder.

Step 1

Right-click on a line of the person whose video appearance is to be checked in the notification list on the "Alarm" page, and then select [Play the video] from the right-click menu.



→ Recorded images will be played on the operation window.


Note:

- When the operation window is used with a multi-screen, it will be switched to 1-screen.
 - It is also possible to play recorded images by double-clicking a list item.
-

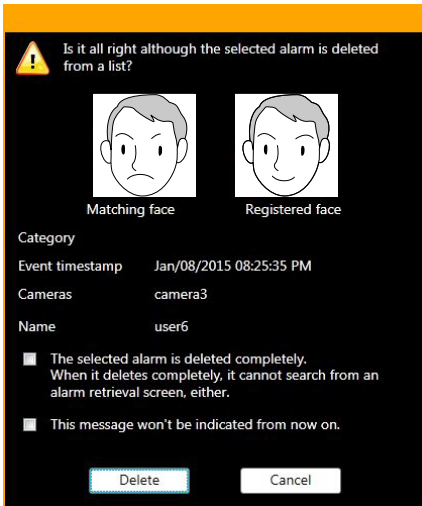
Delete occurred alarms from the list

Unnecessary alarms can be deleted from the alarm list.

Step 1

Click the  button on the line of the deleting image in the list of the [Alarm] tab.

→ The deletion confirmation window will be displayed.




Step 2

Click the [Delete] button.

→ The selected alarm will be deleted and restores the "Alarm" page.

Note:

- Normally, the deletion only deletes data from the list. WV-ASF900 still keeps the data. If data is deleted with "The selected alarm is deleted completely." check-marked, it will delete data not only from the list but also from the storage of WV-ASF900. After the data is deleted, it will not be searched from the [Alarm search] window.
- To set the confirmation window not to be displayed and delete data directly, check mark "This message won't be indicated from now on.". To show the delete confirmation window, set "ON" for "Face alarm deletion confirmation window" of the setup software. Refer to the WV-ASM200 Setup Instructions (PDF) for further information.
- The  button will not be displayed if the user is not authorized for deletion of alarms.
- When connected with WV-ASF900 Ver.2.0/2.1, the [Delete] button will not be displayed.
- When failed to connect with WV-ASF900 upon the startup of the face search monitor, the [Delete] button will not be displayed even after the connection with WV-ASF900 is established. To display the [Delete] button, restart the face search monitor.

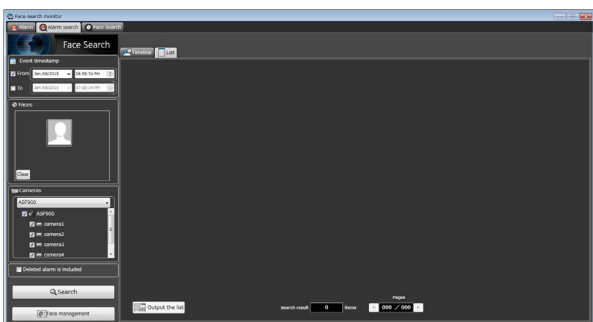
Search the alarm notification

Search by time and date

Perform the alarm notification search by designating time and date.

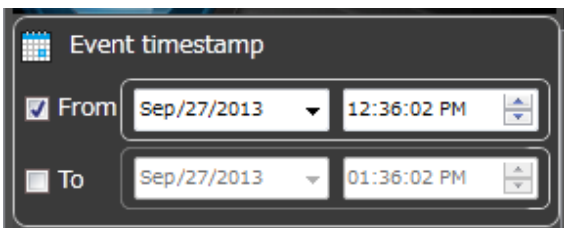
Step 1

Click the [Alarm search] tab on the face search monitor.



Step 2

Select the start time and the end time of "Event timestamp".




■ From

Select the start time of period to be searched from "2005/1/1" - "2034/12/31". Select a number for hour from "0" - "23". Select a number for minute (1 minute step).

■ To

Select the end time of period to be searched from "2005/1/1" - "2034/12/31". Select a number for hour from "0" - "23". Select a number for minute (1 minute step).

Note:

- If searching an alarm image with "Deleted alarm is included" check-marked, the deleted alarm images will be included as search target. However, completely deleted images will not be displayed. For the deleted alarm images,  will be displayed.



- When connected with WV-ASF900 Ver.2.0/2.1, "Deleted alarm is included" will not be displayed.

Step 3

Click the [Search] button.

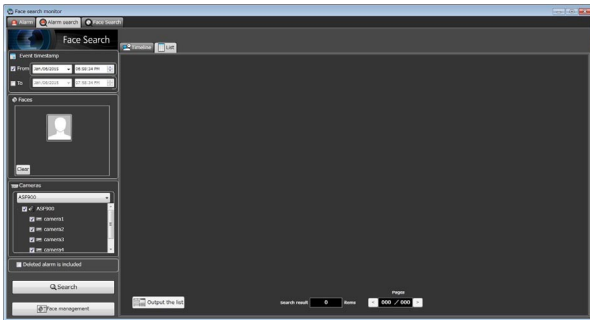
→ The "Search result" window will be displayed.

Search by person (face)

Perform the face search by designating face features.

Step 1

Click the [Alarm search] tab on the face search monitor.



Step 2

Designate a face image.



■ Person icon

The face image setting can be configured as follows.

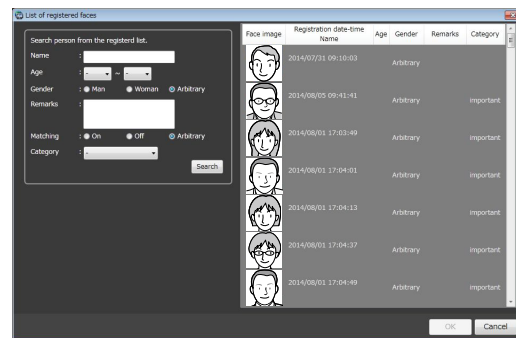
- Display the "List of registered faces" window by left-clicking the person icon, and then select a face image.
- Right-click on the person icon, and then select from the following menu.
[Select face image from the registered list]
- Drag and drop the face image of the search result onto the person icon.

■ [Clear] button

Clear the search condition.

Designate the person (face image) to be searched

- Select from the registered images
Right-click the person icon of "Faces" on the "Alarm search" page and select [Select face image from the registered list] from the menu.
→ The "List of registered faces" window will be displayed.



■ List item

Select a person to be searched from the "List of registered faces" displayed on the right side.

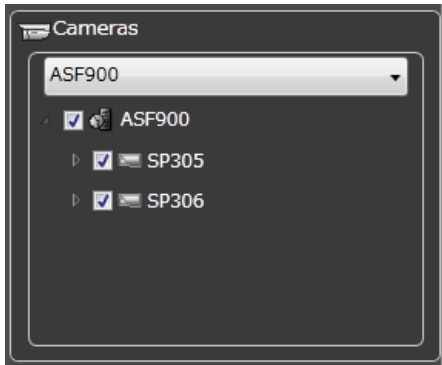
■ [OK] button

Close the "List of registered faces" window and apply the search condition.

■ [Cancel] button

Close the "List of registered faces" window and cancel the search condition.

Designate the camera to be searched



Check the checkbox of the camera to be searched.

Note:

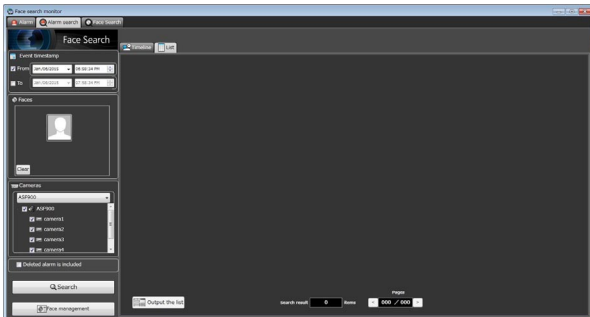
- The cameras obtained by "Face search server registration" of the setup software will be displayed in the tree.
- When the checkbox of parent node (server) is checked, the checkboxes of all the child nodes will be checked automatically.
- When the checkbox of "Parent node (server)" is unchecked, the checkboxes of all the child nodes will be unchecked automatically.

Step 3

Click the [Search] button.

→ The "Search result" window will be displayed.

Play recorded image in search result



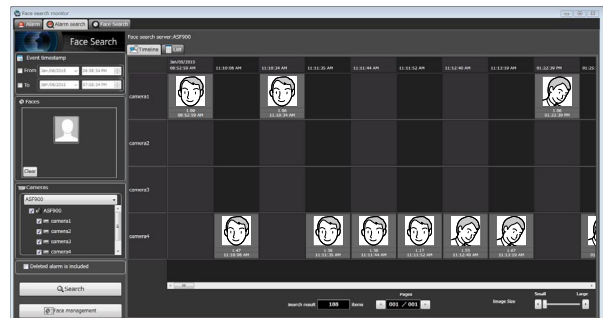
Click the [Search] button.

→ The "Search result" window will be displayed.
There are two types of displaying the search result;
"Timeline" and "List".

<When displaying in "Timeline">

Click the [Timeline] tab.

The search result will be displayed with mapped thumbnail images on the plane with two axes of "Time" and "Place".



<When displaying in "List">

Click the [List] tab.

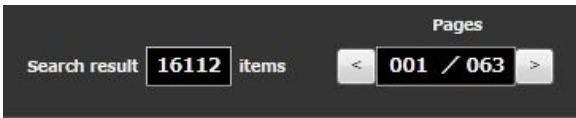
Search result will be displayed in list form.



■ Number of the search result, page information

Total number of search result and the page number of the currently displayed page will be displayed as shown below.

The buttons to turn pages will be displayed as shown below.



Operation from thumbnail image of search result

The following are available by operation using thumbnail image of search result

- People search
Right-click on the thumbnail image and select [People search] from the menu.
→ The people search for the selected face image will be automatically started.
- Apply to search condition of the people search
Right-click on a thumbnail image and select [Set to People Search 1] or [Set to People Search 2] from the right-click menu.
→ The selected image will be displayed in the section of "Faces" of the "People Search" window.
- Apply to filter of the face search
Right-click on a thumbnail image and select [Set to Face Search 1] or [Set to Face Search 2] from the right-click menu.
→ The selected image will be displayed in the section of "Faces" of the search display window.

- Apply to filter of the alarm search
Right-click on the thumbnail image and select [Set to Alarm Search] from the right-click menu.
→ The selected image will be displayed in the section of "Faces" of the alarm search display window.
- Register as person (face) of whom alarm is to be notified
Right-click on the thumbnail image and select [Newly register this face image] from the right-click menu.
→ The "Select and register face image from snapshot" window will be displayed. ("Register from a face thumbnail image" (☞ page 133))
- Additional registration of a person (face) to the existing registrations of alarm notification
Right-click on the thumbnail image and select [Additionally register this face image] from the right-click menu.
→ The list window of registered face images will be displayed. ("Register 2 or more face images of a same person" (☞ page 140))
- Playback of recorded images
Right-click on the thumbnail image and select [Play the video] from the right-click menu.
→ Image recorded at the alarm occurrence time will be played.
Recorded images will be played on the operation window of the operation software.

Note:

- When the operation window is used with a multi-screen, it will be switched to 1-screen.
 - It is also possible to play recorded images by double-clicking a thumbnail image.
 - The [People search], [Set to People Search 1], and [Set to People Search 2] menus will be displayed only if the people search server exists.
-

Output alarm search result in HTML

The alarm search result can be output in a HTML file.

Step 1

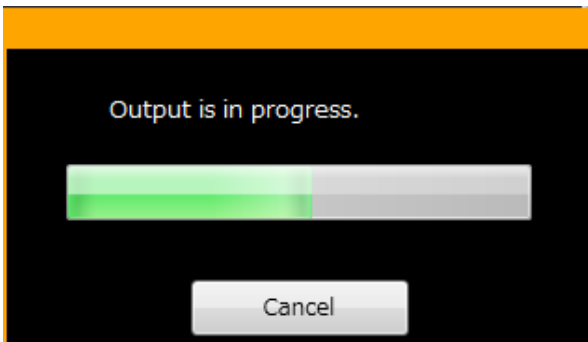
Click the [List] tab of the "Alarm search" page, and then click the  button.

→ The window for specifying the destination folder of the saving file will be displayed.

Step 2

Specify the destination folder of the saving file, name the file, and then click the [OK] button.

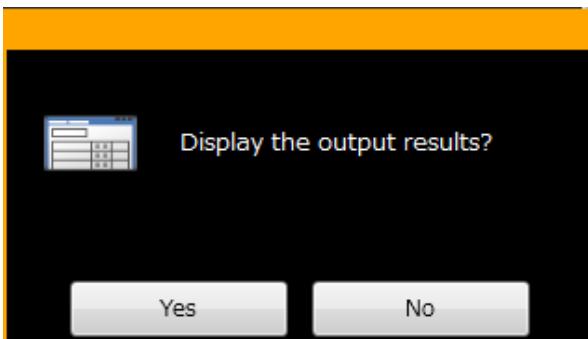
→ The window to show the output progress will be displayed.



A dated folder will be automatically created in the specified folder, and a file will be saved there with the specified name.

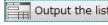
Step 3

When the file saving process is complete, confirmation window for displaying the result will be displayed.



Click [Yes] button to open the output HTML file in the browser.

Note:

- The  button will not be displayed if the user is not authorized for output of a list of searched face alarms.
-

Search for designated people

Search by face

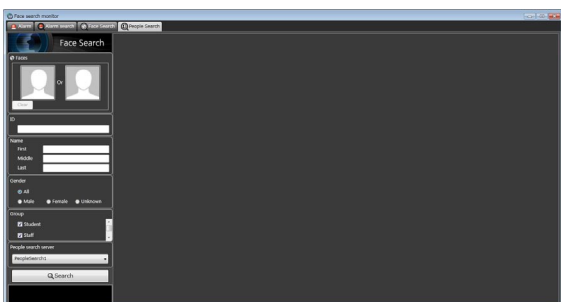
Perform the face search by designating the face.

Important:

- To use the people search function, it is necessary to purchase WV-ASF900 and the extension software WV-ASE231. Also, the people search server needs to be connected.

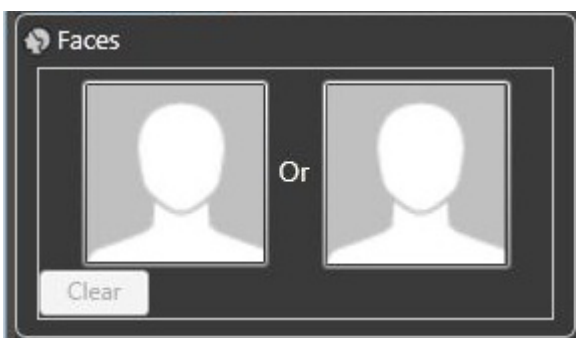
Step 1

Click the [People Search] tab on the face search monitor.



Step 2

Designate a face image.



■ Person icon

The face image setting can be configured as follows.

- Display the "Select face image from snapshot" window by left-clicking the person icon, and then select a face image. For details, refer to "How to set up a face image from snapshot". (☞ page 128)
- Right-click on the person icon, and then select from the following menu.
[Select face image from the snapshot]
[Select from list of registered faces]
- Select a face image from the displayed "List of registered faces".
- Right-click on a face image of paused playback image of ASM200 operation software, and then select [Set to People Search 1] or [Set to People Search 2] from the displayed right-click menu. (The "Face thumbnail list" will be displayed in the playback window.)
- Right-click on the result display of the "Alarm" page, "Alarm search" page, or "Face Search" page, and then select [Set to People Search 1] or [Set to People Search 2] from the menu.

■ [Clear] button

Clear both the images of filter 1 and filter 2.

How to set up a face image from snapshot

Left-click on a person icon on the "Faces" of the "People Search" page.

→ The "Select face image from snapshot" window will be displayed.

■ [Ref.] button

Select an image file to be read on the "Select face image from snapshot" window.

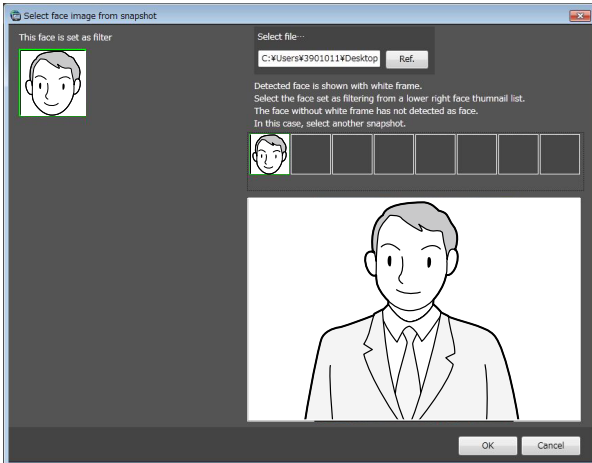
Note:

- The available file formats are JPEG, PNG and BMP.

■ Snapshot display area

When an image file is read out, the face detection process will be carried out and white border frame will be displayed around each face.

The detected faces will be displayed above the image.



■ Image display area for setting the search condition

The selected face image will be displayed.

■ [OK] button

Close the registration window and apply the search condition.

■ [Cancel] button

Click this button to quit the registration window. The search condition will not be updated.

Step 3

Click the [Search] button.

→ The search result will be displayed.

Note:

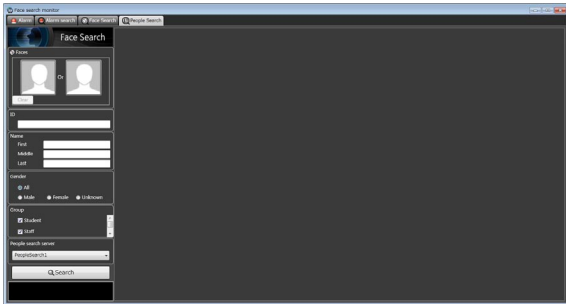
- The search result will be listed in order of the highest score of similarity.
 - Up to 100 search results will be displayed.
 - The search can be filtered by "Name", "Gender", "Group", or "ID".
 - The filter items "Name", "Gender", "Group", or "ID" may not be displayed depending on the settings of the people search server.
 - Right-click on the target person and select [Set to Face Search 1] or [Set to Face Search 2] from the right-click menu.
 - The selected image will be displayed in the section of "Faces" of the search display window.
-

Search by ID

Perform the face search by designating ID.

Step 1

Click the [People Search] tab on the face search monitor.



Step 2

Enter the ID.



Step 3

Click the [Search] button.

→ The search result will be displayed.

Note:

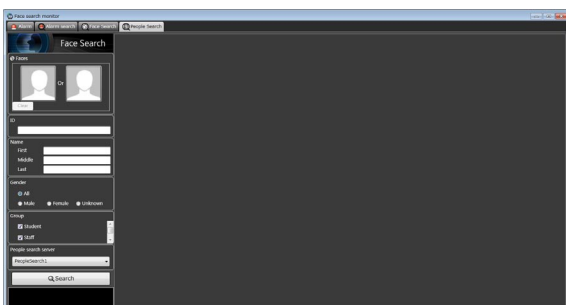
- The front part matching is available for search by ID (full number does not need to be entered).
- The "ID" may not be displayed depending on the settings of the people search server.

Search by name

Perform the people search by designating the name.

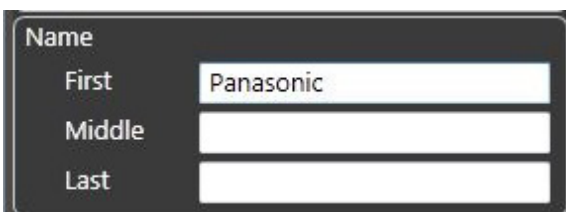
Step 1

Click the [People Search] tab on the face search monitor.



Step 2

Enter the name.



Step 3

Click the [Search] button.

→ The search result will be displayed.

Note:

- The front part matching is available for search by name (full name does not need to be entered).
- There may be multiple fields to enter for the last name and for the first name. Fill the required fields.
- The "Name" may not be displayed depending on the settings of the people search server.

Quick search from recorded video

Quick search by designating a face during playback of the recorded images can be performed.

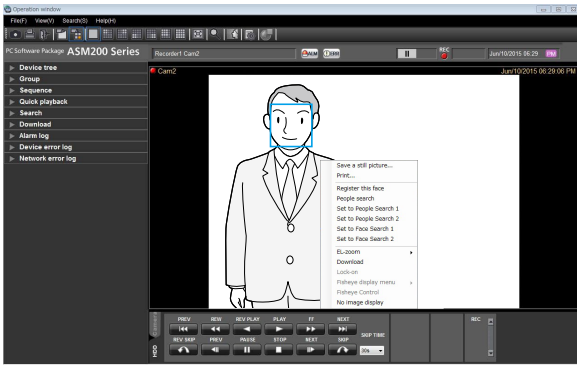
Step 1

Play recorded images while displaying the operation window with 1-screen.

Step 2

Pause the playback when the person to be searched appeared.

→ When detection of the face image succeeded, square frames will be displayed around all the detected faces.



Step 3

Right-click on the face image for people search, and select [People search] from the menu.

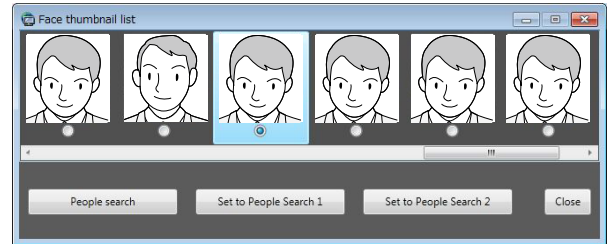
→ The people search for the selected face image will be automatically started. After searching, detected faces will be listed.

Note:

- The top listed server on the face search monitor in the "People Search" page will be selected as the search target.

Step 4

The "Face thumbnail list" will be displayed in the playback window as well as the automatic search result.



The detected face images will be checked and verified, and the face image with the highest score will automatically be checked.

To execute people search by designating a face image, click the [People search] button. Also, when the [Set to People Search 1] button or [Set to People Search 2] button is clicked after selecting a face image, the selected image will be displayed in "Faces" of "People Search" window.

Note:

- Also, quick people search can be executed if right-clicked on the result display of the "Alarm" page, "Alarm search" page, or "Face Search" page and [People search] is selected from the menu.

Check the details of people search

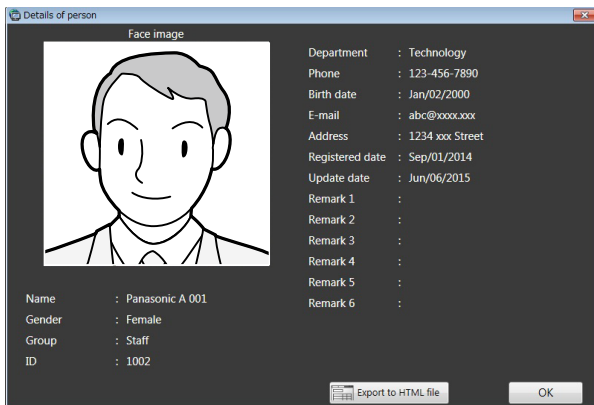
Check the details of people search window

Display the details of people search.

Step 1

Select and double-click a person you wish to check the details for from the list displayed in the "People Search" page.

→ The "Details of person" window will be displayed.



Output details of people search in HTML file

The people search result can be output in a HTML file.

Step 1

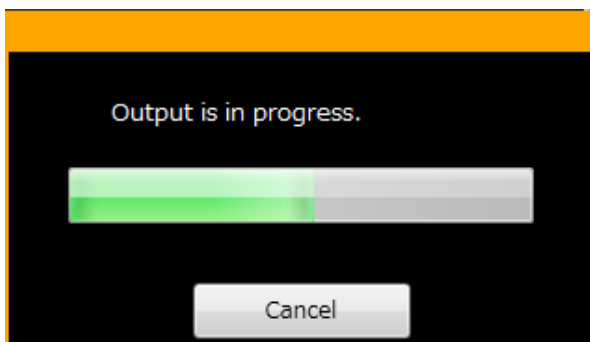
Click the [Export to HTML file] button in the "Details of person" window.

→ The window for specifying the destination folder of the saving file will be displayed.

Step 2

Specify the destination folder of the saving file, name the file, and then click the [Save] button.

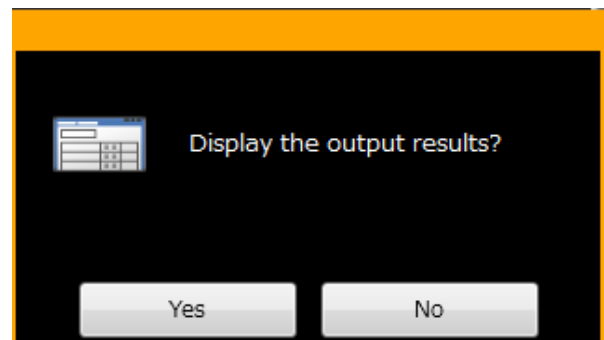
→ The window to show the output progress will be displayed.



A dated folder will be automatically created in the specified folder, and a file will be saved there with the specified name.

Step 3

When the file saving process is complete, confirmation window for displaying the result will be displayed.



Click [Yes] button to open the output HTML file in the browser.

Note:

- The [Export to HTML file] button will not be displayed if the data of the person is not accumulated enough for output.
- Also, HTML output can be executed by right-clicking the target person on the "People search" window and selecting [Export to HTML file] from the pop-up menu.

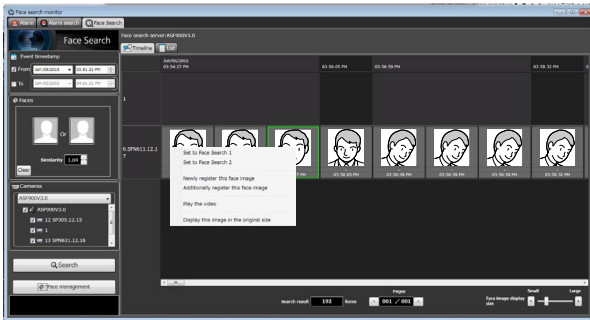
Register a face for the alarm notification

Register from a face thumbnail image

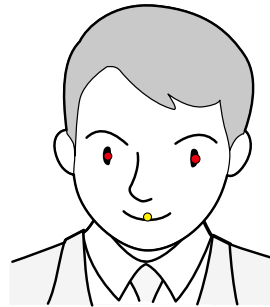
It is possible to register from the search result of "Search face" or "Search person (face)" of "Search the alarm notification".

Step 1

On the "Search result" window of "Search person (face)", right-click on a face thumbnail image and select [Newly register this face image] from the right-click menu.



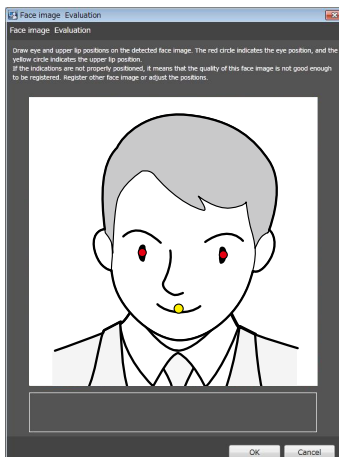
Example (Applicable/Not applicable) of the detected eye position



Example1 (Applicable): The position of both eyes and the center position of the upper lip are displayed correctly.

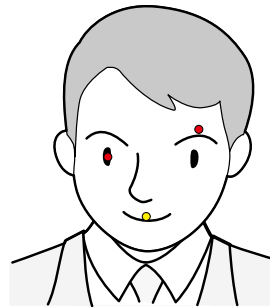
Step 2

The "Face image Evaluation" window will be displayed. Check and confirm the face image to be registered by following the displayed instructions, and then click the [OK] button.

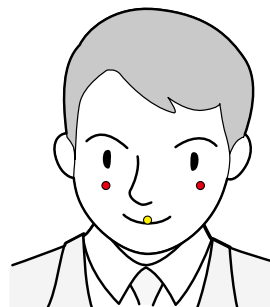


When any of the following check points are recognized, consider to register other image. Otherwise, it may cause performance deterioration of the face detection function.

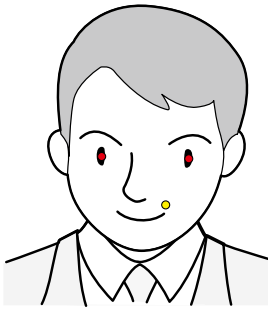
- Check point 1: The message of "Please consider to register other face image" is displayed.
- Check point 2: In the face image, the detected eye positions (red dots) are not positioned on the eyes, or the center position of the upper lip (yellow dot) is largely misaligned from the center of the upper lip.



Example2 (Not applicable): The position of one of eyes is incorrect.



Example3 (Not applicable): The position of both eyes is incorrect.



Example4 (Not applicable): The position of the upper lip is incorrect.

Note:

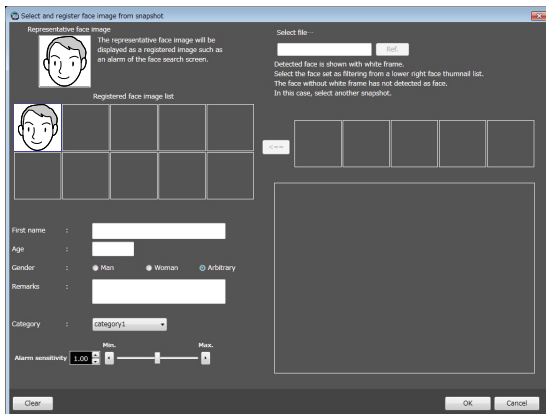
- The alarm sensitivity is the sensitivity to be used to match with the registered faces. This setting can be applied to each person. Normally, use with the default setting.
 - The lower the alarm sensitivity level is, the higher the rate of matching with the registered faces will become. However, the matching accuracy may drop. The higher the alarm sensitivity level is, the lower the rate of false matching with the registered faces will become. However, the matching rate with the registered faces may drop.
-

Note:

- It is applicable if each position of both eyes (red dots) and the center position of the upper lip (yellow dot) is displayed approximately at an expected position. There is no problem if the red dot is partially misaligned from the eye or the yellow dot is partially misaligned from the upper lip or the face image.
-

Step 3

The "Select and register face image from file" window will be displayed.



After entering the following information, click the [OK] button.

- **Name**
- **Age**
- **Gender**
- **Category (Select from the pull-down menu.)**

To cancel registration, click the [Cancel] button.

Register from recorded images

It is possible to register from playback images on the recorder.

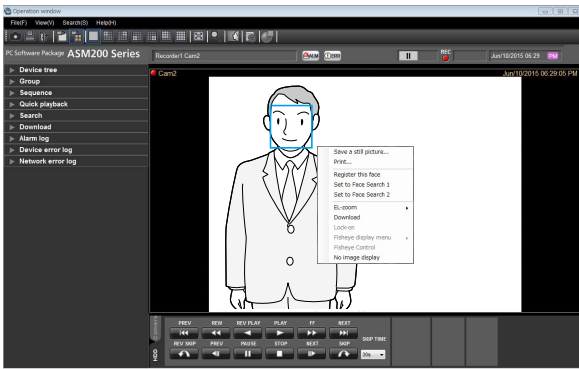
Step 1

Play recorded images while displaying the operation window with 1-screen.

Step 2

Pause the playback when the person to be registered appeared.

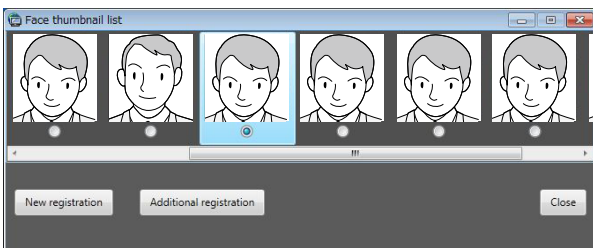
→ When detection of the face image succeeded, square frames will be displayed around all the detected faces.



Step 3

Right-click on the face image to be registered and select [Register this face] from the right-click menu.

→ The face search from recorded images will start and the result will be displayed with the detected faces in list form.



The detected face images will be checked and verified, and the face image with the highest score will automatically be checked.

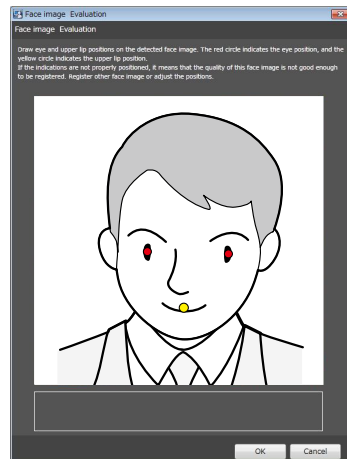
Step 4

Select the face image to be registered, and then click the [New registration] button.

Step 5

The "Face image Evaluation" window will be displayed.

Check and confirm the face image to be registered by following the displayed instructions, and then click the [OK] button.

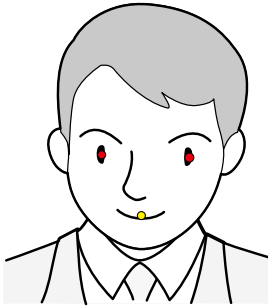


When any of the following check points are recognized, consider to register other image. Otherwise, it may cause performance deterioration of the face detection function.

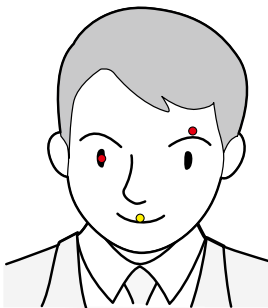
Check point 1: The message of "Please consider to register other face image" is displayed.

Check point 2: In the face image, the detected eye positions (red dots) are not positioned on the eyes, or the center position of the upper lip (yellow dot) is largely misaligned from the center of the upper lip.

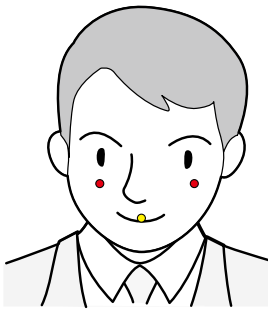
Example (Applicable/Not applicable) of the detected eye position



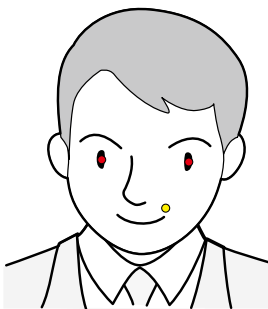
Example1 (Applicable): The position of both eyes and the center position of the upper lip are displayed correctly.



Example2 (Not applicable): The position of one of eyes is incorrect.



Example3 (Not applicable): The position of both eyes is incorrect.



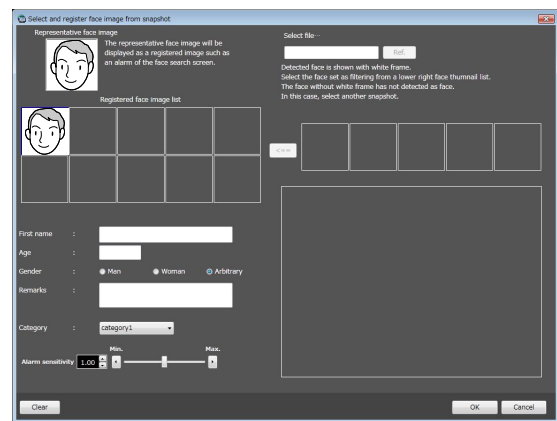
Example4 (Not applicable): The position of the upper lip is incorrect.

Note:

- It is applicable if each position of both eyes (red dots) and the center position of the upper lip (yellow dot) is displayed approximately at an expected position. There is no problem if the red dot is partially misaligned from the eye or the yellow dot is partially misaligned from the upper lip or the face image.

Step 6

The "Select and register face image from file" window will be displayed.



After entering the following information, click the [OK] button.

- Name
- Age
- Gender
- Category (Select from the pull-down menu.)

To cancel registration, click the [Cancel] button.

Note:

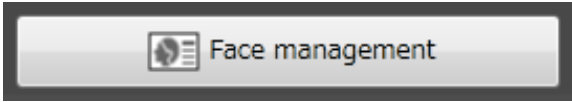
- The alarm sensitivity is the sensitivity to be used to match with the registered faces. This setting can be applied to each person. Normally, use with the default setting.
- The lower the alarm sensitivity level is, the higher the rate of matching with the registered faces will become. However, the matching accuracy may drop. The higher the alarm sensitivity level is, the lower the rate of false matching with the registered faces will become. However, the matching rate with the registered faces may drop.

Register from snapshot

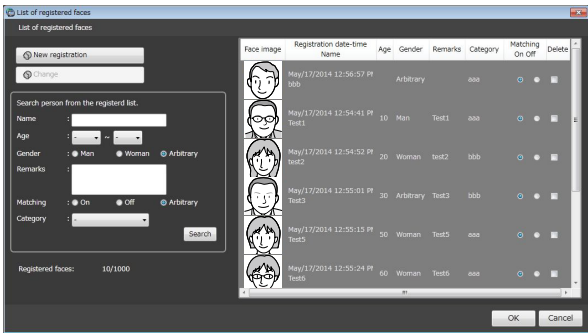
It is possible to register from a still image (snapshot) whose format is JPEG, PNG or BMP.

Step 1

Click the [Face management] button on the face search monitor.

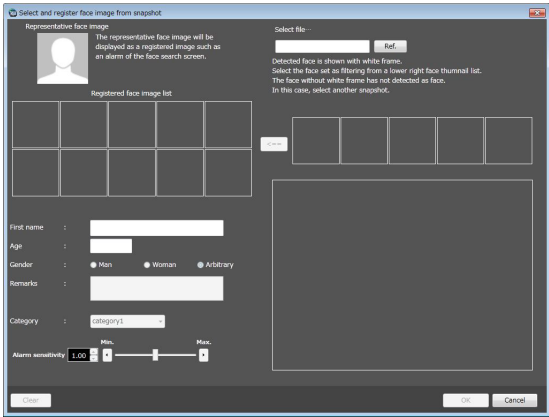


→ The "List of registered faces" window will be displayed.



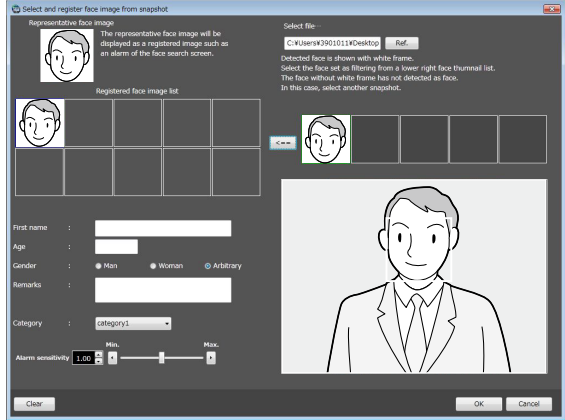
Step 2

Click the [New registration] button.
 → The "Select and register face image from snapshot" window will be displayed.



Step 3

Click the [Ref.] button.
 Select an image file to be read on the file selection window.
 → The face detection from the image will start and square frames will be displayed around all the faces when face images are detected.

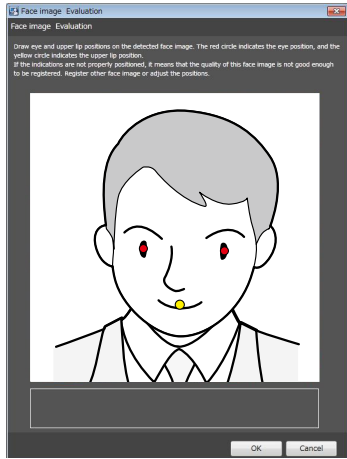


Step 4

Click a face image to be registered additionally from the face image list.
 → The selected face image will be displayed with a green frame.

Step 5

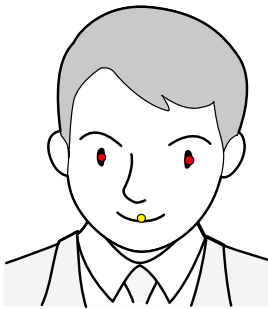
Click the [Add] button.
 → The "Face image Evaluation" window will be displayed.
 Check and confirm the face image to be registered by following the displayed instructions, and then click the [OK] button.



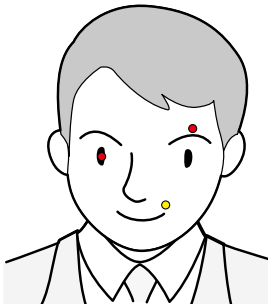
When any of the following check points are recognized, consider to register other image. Otherwise, it may cause performance deterioration of the face detection function.

Check point 1: The message of "Please consider to register other face image" is displayed.
 Check point 2: In the face image, the detected eye positions (red dots) are not positioned on the eyes, or the center position of the upper lip (yellow dot) is largely misaligned from the center of the upper lip.

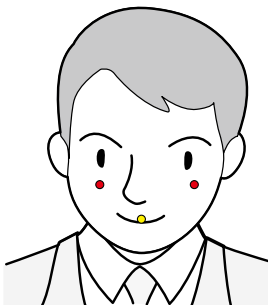
Example (Applicable/Not applicable) of the detected eye position



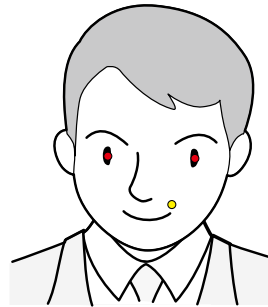
Example1 (Applicable): The position of both eyes and the center position of the upper lip are displayed correctly.



Example2 (Not applicable): One of the position of eyes and the center position of the upper lip are not displayed correctly.



Example3 (Not applicable): The position of both eyes is incorrect.

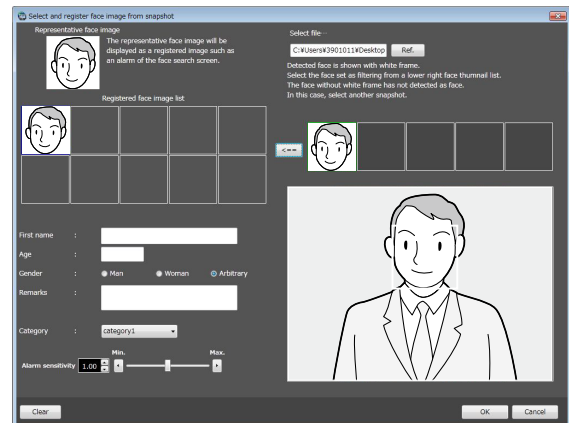


Example4 (Not applicable): The position of the upper lip is incorrect.

Note:

- It is applicable if each position of both eyes (red dots) and the center position of the upper lip (yellow dot) is displayed approximately at an expected position. There is no problem if the red dot is partially misaligned from the eye or the yellow dot is partially misaligned from the upper lip or the face image.

Step 6



After entering the following information, click the [OK] button.

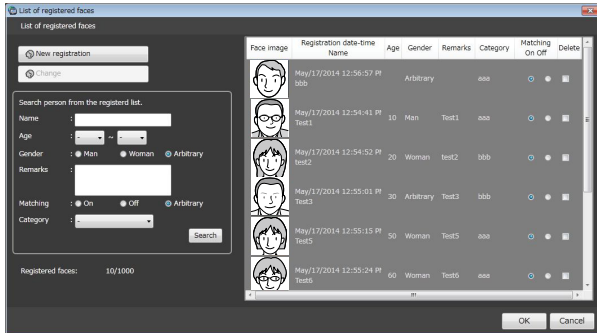
- Name
- Age
- Gender
- Category (Select from the pull-down menu.)

To select other face image on the same image being paused, go back to step 4 and step 5, and then click other face image.

To cancel registration, click the [Cancel] button.

Step 7

The registered person (face) will be displayed in "List of registered faces".



Click the [OK] button.

Note:

- The alarm sensitivity is the sensitivity to be used to match with the registered faces. This setting can be applied to each person. Normally, use with the default setting.
 - The lower the alarm sensitivity level is, the higher the rate of matching with the registered faces will become. However, the matching accuracy may drop. The higher the alarm sensitivity level is, the lower the rate of false matching with the registered faces will become. However, the matching rate with the registered faces may drop.
-

Register 2 or more face images of a same person

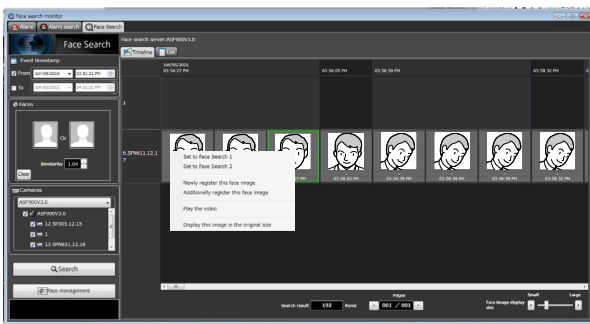
It is possible to register up to 10 face images for a same person who is already registered.

Additionally register from a face thumbnail image

It is possible to register additionally from the search result of "Search face" or "Search by person (face)" of "Search the alarm notification".

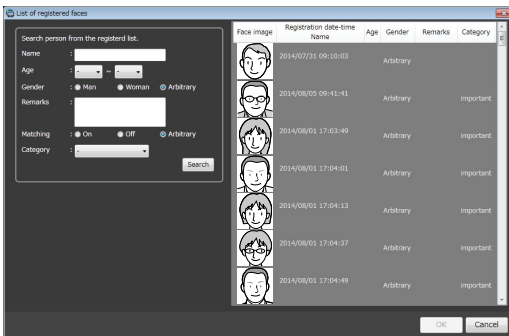
Step 1

On the search result window of "Search by person (face)", right-click on a face thumbnail image and select [Additionally register this face image] from the right-click menu.



Step 2

From the registered persons, select a person whose face image is to be additionally registered and click the [OK] button.



Note:

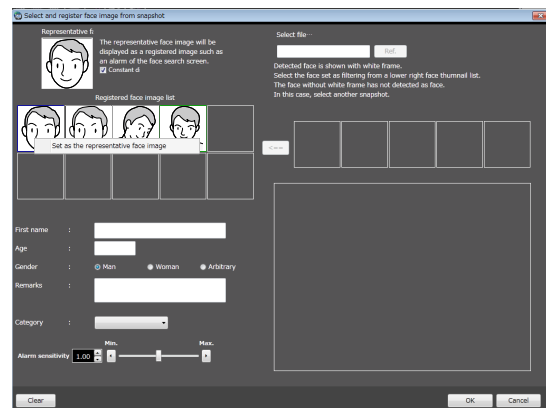
- When 10 face images are already registered for the selected person, the pop-up message with an error message (saying that it is impossible to add any more) will be displayed.

Step 3

The "Face image Evaluation" window will be displayed. Refer to the "Register from a face thumbnail image" section (page 133) for further information about the face image evaluation window.

Step 4

Confirm that the additionally registered face image is being displayed, and then click the [OK] button. To set the additionally registered face image as the representative face image, right-click on the additionally registered face image and select "Set as the representative face image" from the right-click menu, and then click the [OK] button.



Additionally register from recorded images

It is possible to register additionally from playback images on the recorder.

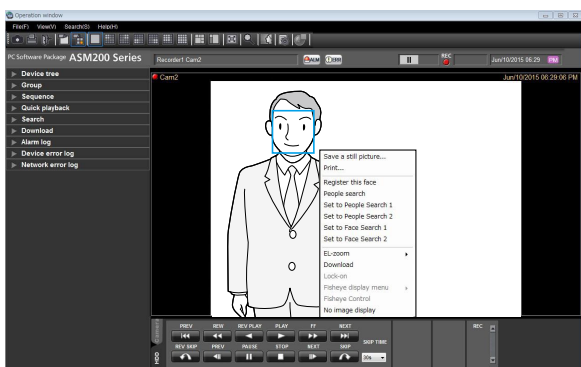
Step 1

Play recorded images while displaying the operation window with 1-screen.

Step 2

Pause the playback when the person to be registered appeared.

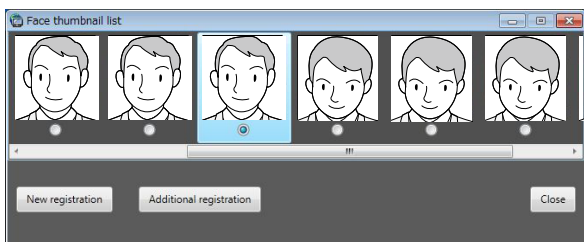
→ When detection of the face image succeeded, square frames will be displayed around all the detected faces.



Step 3

Right-click on the face image to be registered and select [Register this face] from the right-click menu.

→ The face search from recorded images will start and the result will be displayed with the detected faces in list form.



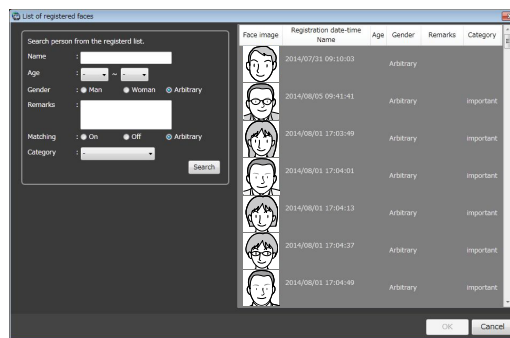
The detected face images will be checked and verified, and the face image with the highest score will automatically be checked.

Step 4

Select the face image to be registered additionally, and then click the [Additional registration] button.

Step 5

From the registered persons, select a person whose face image is to be additionally registered and click the [OK] button.



Note:

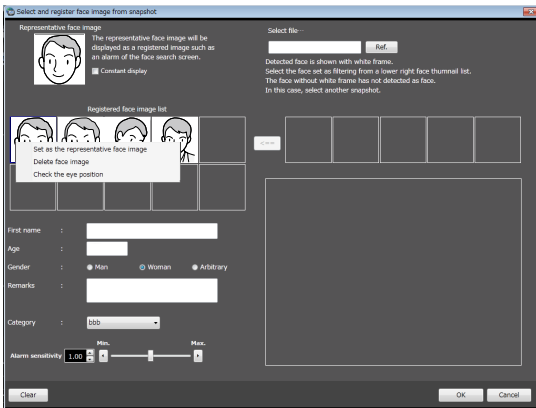
- When 10 face images are already registered for the selected person, the pop-up message with an error message (saying that it is impossible to add any more) will be displayed.

Step 6

The "Face image Evaluation" window will be displayed. Refer to the "Register from a face thumbnail image" section (page 133) for further information about the face image evaluation window.

Step 7

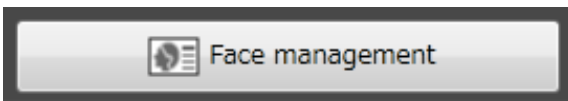
Confirm that the additionally registered face image is being displayed, and then click the [OK] button. To set the additionally registered face image as the representative face image, right-click on the additionally registered face image and select "Set as the representative face image" from the right-click menu, and then click the [OK] button.



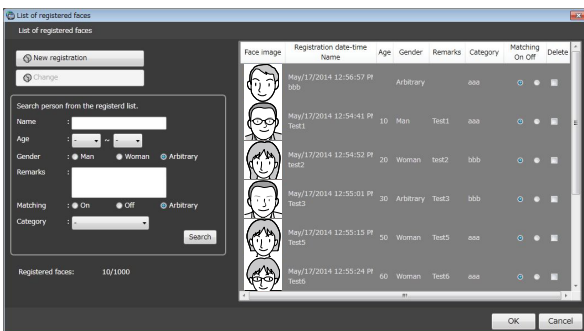
Additionally register from snapshot

Step 1

Click the [Face management] button on the face search monitor.



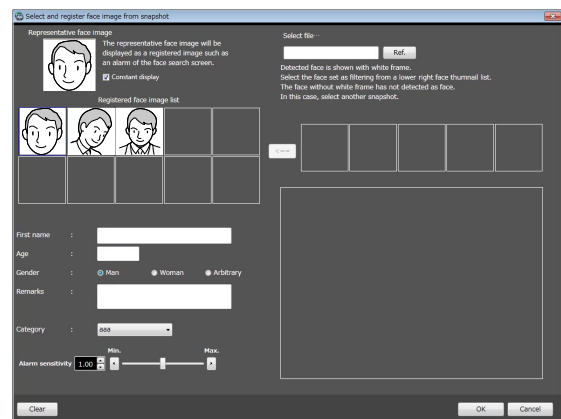
→ The "List of registered faces" window will be displayed.



Step 2

Select a registered face image from the list, and then click the [Change] button.

→ The "Select and register face image from snapshot" window will be displayed.



■ Representative face image

When 2 or more face images are registered for a same person, it is possible to set the representative face image.

The representative face image will be set as the face image to be displayed on the registered face image list table.

* When no face image data is displayed for this face image (middle of the left side), it is impossible to enter the following face information (name, age, gender, remarks, category, alarm sensitivity).

■ Registered face image list

A list of multiple face images registered for a same person will be displayed. Up to 10 face images can be registered. When 5 or more face images are registered, the scroll bar will be displayed at the bottom.

When right-clicking on a registered face image, "Set as the representative face image", "Delete face image" and "Check the eye position" will be displayed on the right-click menu.

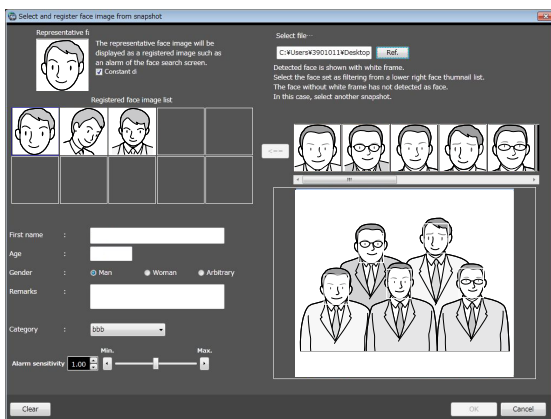
When "Set as the representative face image" is selected, the representative face image will be displayed with a blue frame. When "Delete face image" is selected, the face image will be deleted and the face images subsequent to the deleted face image will shift to the left to fill the vacant space of the deleted face image. When "Check the eye position" is selected, the face image evaluation window will be displayed and the eye position can be checked on it.

Step 3

Click the [Ref.] button.

Select an image file to be read on the file selection window.

→ The face detection from the image will start and square frames will be displayed around all the faces when face images are detected.



Step 4


Click a face image to be registered additionally from the face image list.

→ The selected face image will be displayed with a green frame.

Note:

- When selecting a face image even though 10 face images are already registered for the selected person, the warning pop-up window will be displayed. When the warning pop-up window is closed, the green frame indicating the selected face image will turn to the color indicating the non-selected face image.

Step 5

Click the  (Add) button to add the selected face image to the registered face image list. The "Face image Evaluation" window will be displayed during this process. Refer to the "Register from snapshot" section (page 137) for further information about the "Face image Evaluation" window.

Note:

- The available right-click menu when right-clicking on the added face image are "Set as the representative face image" and "Check the eye position".

Step 6

Click the [OK] button.

Display the statistical graphics of age/gender/head-count

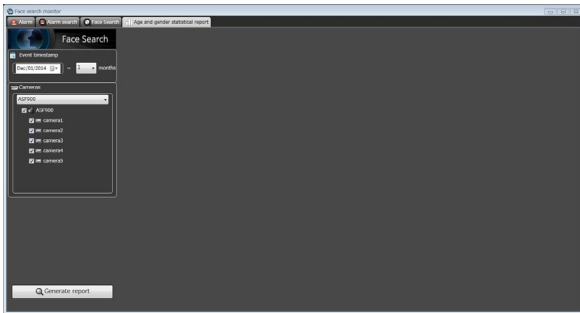
Display the statistical results

It is possible to display the statistic results of age, gender and head count for each camera.

Step 1

Click the [Age and Gender] tab on the face search monitor.

→ The "Age and Gender" page will be displayed.

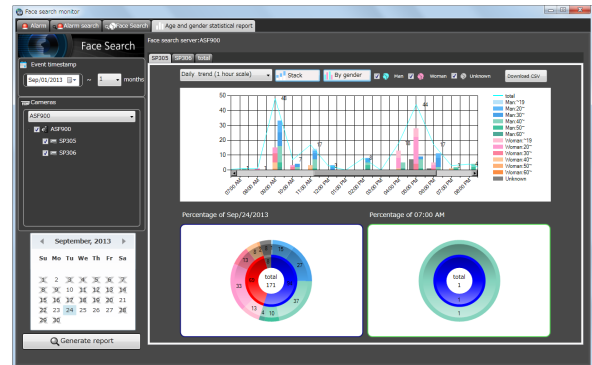


- When the checkbox of parent node (server) is checked, the checkboxes of all the child nodes will be checked automatically.
- When the checkbox of "Parent node (server)" is unchecked, the checkboxes of all the child nodes will be unchecked automatically.
- Up to 8 cameras can be selected.

Step 4

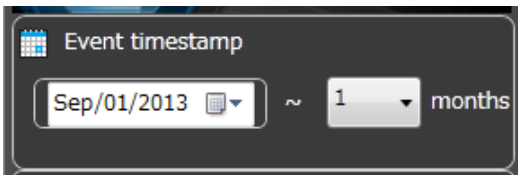
Click the [Generate report] button.

→ The statistical results will be displayed.



Step 2

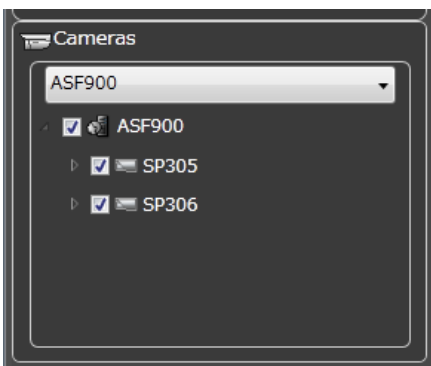
Select the start date and the period to display the statistical results in the [Event timestamp] section.



Select the start date of period from "2005/1/1" - "2034/12/31". Select a number for month from "1" - "12".

Step 3

Select the face search server and the cameras to display statistics in the "Camera" section.



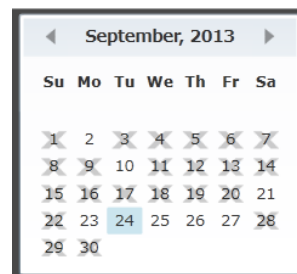
The following display options can be set.

■ Calendar

Select the date to display statistics in the [Calendar] section.

Note:

- Only the date with data will be displayed.
- Date without data will be displayed with the "x" mark.



Note:

- The cameras obtained by "Face search server registration" of the setup software will be displayed in the tree.

■ Graph type

Select the graph type to be displayed from the following.

Daily trend (15 minute scale)/Daily trend (30 minute scale)/Daily trend (1 hour scale)/Weekly trend/Days trend/Monthly trend

■ [Stack]/[Ratio] buttons

Switches the graph display based on the accumulated data or the proportional data.

Note:

- The line graph is available only when displaying based on the accumulated data (stack) and the data point labels will be displayed together.

■ [By gender]/[By total] buttons

Switches the graph display based on the gender or the total number.

■ [Male]/[Female]/[Unknown] checkbox

Check the checkbox to display the desired information in the graph display.

■ Circle graph

Select the items to be displayed with the data labels of the circle graph.

Each time clicked on the circle graph, the label display will be switched to [Head count] → [Ration] → [Title] → [Head count].

Download the statistics results as a CSV file

It is possible to download the data used for the statistics display as a CSV file.

Step 1

Click the [Download CSV file] button on the "Generate report" window.

→ The folder selection window will be displayed.

Note:

- When a removable HDD formatted on the 32-bit OS is connected to a PC whose OS is the 64-bit edition, it may fail to designate the removable HDD as a saving destination.

Step 2

Select the destination folder of the CSV file to be downloaded and click the [OK] button.

The statistics data will be saved as the CSV file whose character code is UTF-8 and comma separated.

The name of the downloaded CSV file will be as follows.

"cccccc_yymmdd000000_yymmdd000000_00_00.csv"

cccccc: Name of the camera or "total"

yymmdd000000 (1st part): Start date of the period (Year in last 2 digits)

yymmdd000000 (2nd part): End date of the period (Year in last 2 digits)

CSV file format

Output example

```
#GUID,Aggregated Date,Gender Code,Age Code,Period of time,The number of people
00200001-0000-0000-0000-192168001100,2013/07/24,1,3,0900,0
00200001-0000-0000-0000-192168001100,2013/07/24,1,3,0915,0
00200001-0000-0000-0000-192168001100,2013/07/24,1,3,0930,0
00200001-0000-0000-0000-192168001100,2013/07/24,1,3,0945,0
00200001-0000-0000-0000-192168001100,2013/07/24,1,3,1000,0
...
```

The data item name and the each 15 minutes summary information will be output on the first line and the second line respectively.

[GUID]

Camera GUID

[Aggregated Date]

Date

[Gender Code]

Gender code

-1: Unknown / 0: Male / 1: Female

[Age Code]

Age code

-1: Unknown / 1: 10s or younger / 2: 20s / 3: 30s / 4: 40s / 5: 50s 6: 60s or older

[Period of time]

Time 15 minutes each

[The number of people]

Head count

Change the display setting (Hide the display)

Display the border frame for face (Hide the border frame)

It is possible to display/hide the border frame displayed around a face when detected.

Important:

- This function will be valid only when a camera having the face search function is connected to ASM200 and the face search function is ON.
-

<To display>

Confirm that the checkbox on the left of "Frame display with face (K)" under "Display (V)" on the menu bar of the operation window or the live window is unchecked. Then, select "Frame display with face (K)" under "Display (V)".

→ Square border frame will be displayed around the detected face and the checkbox on the left of "Frame display with face (K)" under "Display (V)" will be checked.

<To hide>

Confirm that the checkbox on the left of "Frame display with face (K)" under "Display (V)" on the menu bar of the operation window or the live window is checked. Then, select "Frame display with face (K)" under "Display (V)".

→ The square border frame around the detected face will be hidden and the checkbox on the left of "Frame display with face (K)" under "Display (V)" will be unchecked.

Note:

- When the "Pixel by Pixel" mode is set for the image display method, the action of this function is not guaranteed.
-

Save recorded images

Download recorded images

It is possible to download recorded image from the recorder onto the PC. FTP function is used to download recorded images.

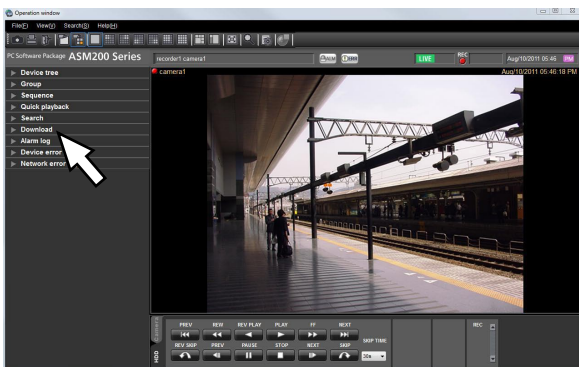
Download recorded images using the "Download" panel.

Note:

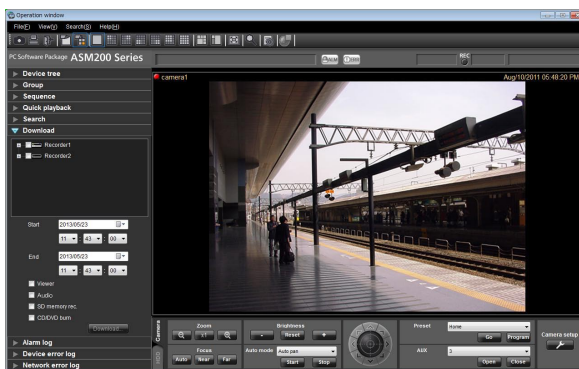
- Recorded images of up to 64 cameras can be downloaded simultaneously. When multiple camera channels are selected, download of recorded images will be performed by the camera channels in order.
- It is possible to select two or more recorders for the target sources of download, but it is impossible to download their images simultaneously.
When the same camera channel is selected two or more times, the address and underscore (_) will be added to the head of each file name.
- The maximum recording duration available for download is 24 hours.
- Images recorded in the designated time range will be divided into files of 10 minutes length each and downloaded. The maximum time length of a downloaded file is 10 minutes.
- To play video data with audio downloaded from ASR500, G.726 codec is required. Refer to the Panasonic support website (http://panasonic.net/pcc/support/netwkcama/technic/info/hcm5xx_G726_inst.html#r=s) for further information.

Step 1

Click the "Download" bar on the function panel.



→ The "Download" panel will be displayed.



The following are descriptions about each item displayed on the "Download" panel.

Recorders in the tree view

The recorders and the cameras as the target sources of download will be displayed. Select the desired recorders and the cameras.

Start

Select the start time of time range for download. Select the start time from "Jan/01/2005" - "Dec/31/2034". Select a number for hour from "AM12" - "PM11". Select a number for minute from "00" - "59". Select a number for second from "00" - "59".

End

Select the end time of time range for download. Select the end time from "Jan/01/2005" - "Dec/31/2034". Select a number for hour from "AM12" - "PM11". Select a number for minute from "00" - "59". Select a number for second from "00" - "59".

Viewer

The viewer software will be downloaded together with recorded images.

Audio

Audio will be downloaded together with images.

Note:

- When trying to download video data with interrupted audio from ASR500, only video data (without audio) will be downloaded.

■ SD memory rec.

Recorded images transferred from the SD memory card in the camera to the recorder will be downloaded.

■ [Download...] button

The folder selection window will be displayed.

■ CD/DVD burn

After download is completed, the recorded images will be written on a CD/DVD recording media. The supported media formats are CD-R/RW, DVD-R/RW and DVD+R/RW.

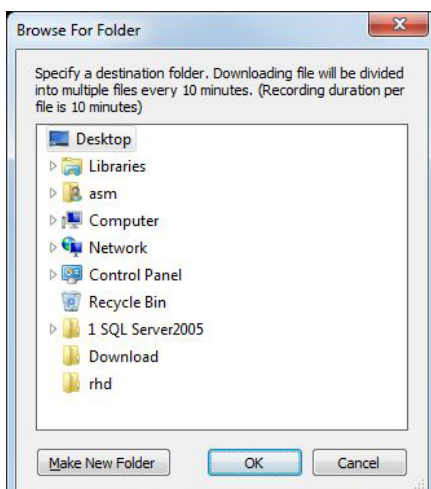
Step 2

Select the recorders and the cameras as the target sources of download.

Step 3

Designate time range for download, and then click the [Download...] button.

→ The window to specify a folder as the destination of the downloaded files will be displayed.



The following are descriptions about each item displayed on the "Browse For Folder" window.

■ Destination folder

Specify a folder as the destination of downloaded files.

■ [Make New Folder] button

Click this button to create a new folder in the selected folder.

■ [OK] button

The window will close and the download will start.

■ [Cancel] button

The window will close and the download will be canceled.

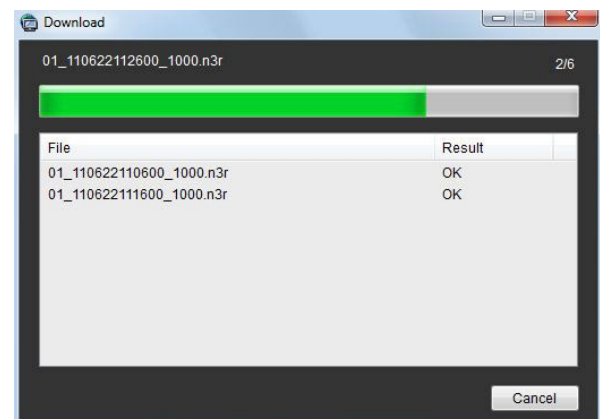
Note:

- The overwrite warning window will be displayed when a file of the same name already exists in the folder. Click the [Cancel] button when wishing not to overwrite the file. In this case, specify another folder.
- When a removable HDD formatted on the 32-bit OS is connected to a PC whose OS is the 64-bit edition, it may fail to designate the removable HDD as a saving destination.

Step 4

Click the [OK] button after specifying a folder.

→ Download will start and the "Download" window will be displayed. To cancel download, click the [Cancel] button or the [x] button at the top right of the window. Downloaded files will be stored in the specified folder.



The following are descriptions about each item displayed on the "Download" window.

■ Name of the file currently being downloaded

Name of the file currently being downloaded will be displayed.

■ Number of files

"Number of files downloaded"/"Number of files to be downloaded".

■ Progress bar

The status of the download will be displayed.

■ List of files

Information of the downloaded files will be displayed in list form.

File: Downloaded files will be displayed.

Result: The status of the download file will be displayed.

OK: Download of the file is successfully completed.

NG: Download of the file failed.

No data: No data was found in the selected recorder.

Failed to burn : The files could not be written on the CD/DVD media since the available space is not enough.

Note:

- If the download failed, the result will be filed as a system log. Refer to WV-ASM200 Setup Instructions (PDF) for further information about logs.

When the "CD/DVD burn" checkbox is checked, writing on the CD/DVD media will automatically start after downloading all the files.

Note:

- It is necessary to insert a writable media into the CD/DVD drive before starting download.
- When the total size of the downloaded files is greater than the available space of the CD/DVD media, only a part of the files will be written to fill in the space.
- When writable media exists in two or more drives, one of them will automatically be selected.
- When the viewer software is copied, the software will also be written on the media as well as other files.
- Writing is unavailable when any file already exists in the CD/DVD media.
In this case, erase the existing files or prepare a new media.
- If CD/DVD drive is specified as a saving destination, start downloading with "CD/DVD burn" unchecked. If the checkbox is checked, files may get corrupted and playback will be impossible. Also, formatting the media is required in advance, if CD/DVD drive is specified as a saving destination.

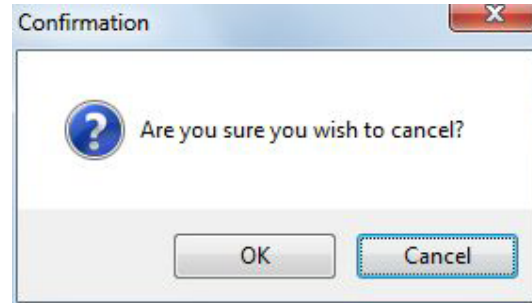
■ [OK] button/[Cancel] button

The [OK] button will be displayed when the download is completed. The [Cancel] button will be displayed in the process of download.

When the [OK] button is clicked, the "Download" window will close. When the [Cancel] button is clicked in the process of download, the download will be canceled.

When the download is canceled

The confirmation window will be displayed. Click the [OK] button.



The download will be canceled. When the [Cancel] button is clicked, download will continue.

Note:

- It is impossible to cancel the download in the process of writing on the CD/DVD media.

Step 5

When the download is completed, click the [OK] button.

→ The "Download" window will close.

Note:

- When trying to close the software or log out in the process of download, the confirmation window will be displayed. To cancel download, click the [OK] button. To continue the download, click the [Cancel] button.
- When continuing the download, the software will not be closed or the logout process will be canceled. When canceling the download, the software will be closed or the logout process will be performed. In this case, the file being downloaded will be deleted. The downloaded file will not be deleted.
- It is impossible to exit or log out of the software in the process of writing on the CD/DVD media.

Download while playing recorded images

When right-clicking on the image being played, the pop-up menu will be displayed. When "Download" is selected from the displayed pop-up menu, the "Download" panel will open. Download recorded images by following from step 2 of the "Download recorded images" section (☞ page 147). Refer to the "Playback" section (☞ page 89) for how to display the playback window.

Download recorded images using the "Search" panel

When right-clicking on a result displayed in the search result list on the "Search" panel, the pop-up menu will be displayed. When "Download" is selected from the displayed pop-up menu, the "Download" panel will open. Download recorded images by following from step 2 of the "Download recorded images" section (☞ page 147). Refer to the "Play recorded images using the "Search" panel" section (☞ page 100) for further information about the "Search" panel.

About the downloaded files

File name of a downloaded file will be as follows.

Example: 01_070209121500_0515.n3r (channel number:1, start time:2007/02/09 12:15:00, length:5 minutes and 15 seconds)

Note:

- When the SD memory data is downloaded, the letter "_SD" will be attached to the time length of a file.
Example: 01_070209121500_0515_SD.n3r
 - File name of the downloaded audio data will be as follow.
Example: 01_070209121500_0515.n3a
 - File extensions of the file downloaded from each recorder will be as follows.
When downloaded from the ND200, ND300, ND400, HD600, NV200, NV300: n3r (n3a for audio file)
 - When downloaded from the HD300: h3r (h3a for audio file)
 - When downloaded from the ASR50: avi
-

Operate the downloaded file

It is necessary to use the dedicated viewer software to play and operate the downloaded files. When the "Viewer" checkbox in the "Download" panel is checked, the viewer software will be downloaded together with the files. Refer to the "Download recorded images" section (☞ page 147) for further information.

Save a still picture

If the license of WV-ASE231 is not registered, the live image or the playback image will be saved as a JPEG file. If the license of WV-ASE231 is registered, the live image or the playback image will be saved as a BMP file.

Step 1

Display the image to be saved.

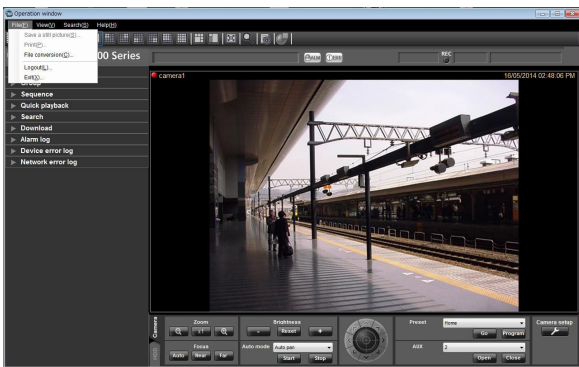
→ Refer to the "Monitor live images" section (page 55) or the "Playback" section (page 89) for how to display images.

Note:

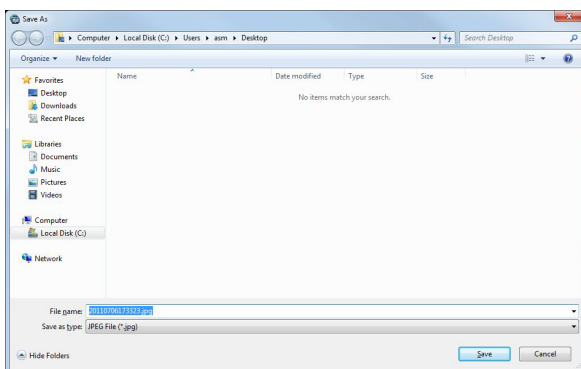
- Saving is available only when displaying images on a 1-screen.

Step 2

Select "Save a still picture(S)..." under "File(F)" on the menu bar or click the [Save a still picture] icon on the tool bar.



→ The "Save As" window will be displayed.



Note:

- It is also possible to save a still picture by selecting "Save a still picture..." from the right-click menu displayed by right-clicking on the image display area.

The following are descriptions about each item displayed on the "Save As" window.

■ Save in:

Specify a folder as the destination of the file to be saved.

■ File name:

Enter the name of the file to be saved. When saving an image in a JPEG file, the default name is as follows.

Example: 20061008110340.jpg (time & date when the file is saved)

Note:

- When the time & date are not displayed on the status bar, time & date part of the default file name will be determined according to the current time of the PC.
- When saving an image in a BMP file, the extension of the file will be "BMP".

■ [Save] button

The "Save As" window will close and the image will be saved and stored in the selected folder.

■ [Cancel] button

The "Save As" window will close without saving.

Step 3

Click the [Save] button after specifying a destination folder and the file name.

→ The image will be saved with the specified name and stored in the specified folder.

Note:

- The resolution being applied in step 2 will be applied to an image to be saved as a JPEG file instead of the resolution that is being applied when transmitted from the camera.
- An image will be saved as a BMP file in the resolution that is used to transmit from the camera.

Print

It is possible to print an image of live images or recorded images.

Step 1

Display the image to be printed.

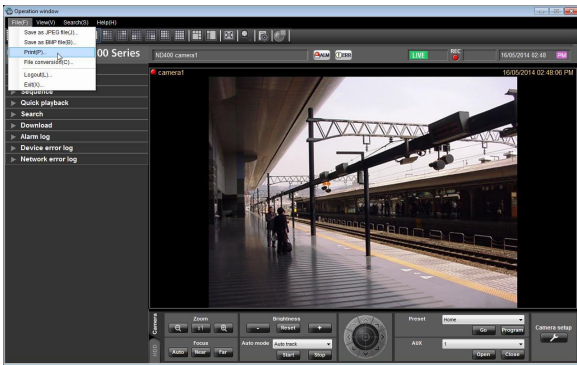
→ Refer to the "Monitor live images" section (page 55) or the "Playback" section (page 89) for how to display images.

Note:

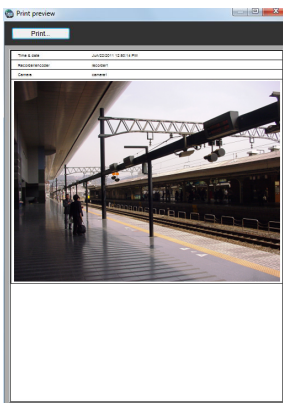
- Printing is available only when displaying images on a 1-screen.

Step 2

Select "Print(P)..." under "File(F)" on the menu bar or click the [Print] icon on the tool bar.



→ The "Print Preview" window will be displayed.



Note:

- The "Print Preview" window can be opened by selecting "Print..." from the pop-up menu displayed by right-clicking on the image display area.

The following are descriptions about each item displayed on the "Print Preview" window.

■ [Print...] button

The "Print" window will be displayed.

■ Time & date

Time & date when the file is printed will be displayed. The time & date will be followed by an asterisk "*" when the daylight saving time is applied.

Note:

- When the time & date are not displayed on the status bar, the current time of the PC will be printed.

■ Recorder/encoder

The recorder title will be displayed.

Note:

- When displaying an image from a camera that is not registered in the recorder, "--" will be displayed.
- When displaying an image from an encoder that is not registered in the recorder, the encoder title will be displayed.

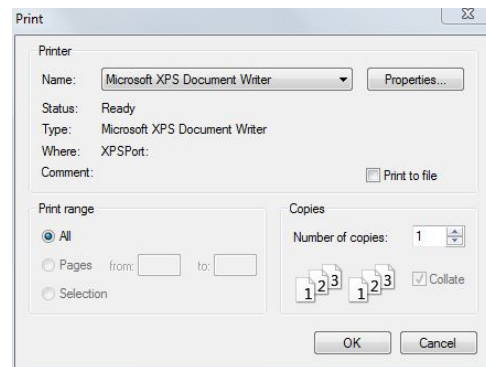
■ Camera

The camera title will be displayed.

Step 3

Click the [Print...] button.

→ The "Print" window will be displayed.



Step 4

Click the [OK] button after completing the settings.

→ Printing of the image currently being displayed will start.

Note:

- The image to be printed is the image displayed in step 2.

Display/edit text information

It is possible to attach text information to the recorded images. Up to 200 characters (up to 10 lines) can be entered.

Note:

- This function is available only when the recorder in use is HD300, ND300 or ND200.
- Displaying/editing of text information is available only when displaying images on a 1-screen. When displaying images on a multi-screen, the [TEXT] button will not be displayed.

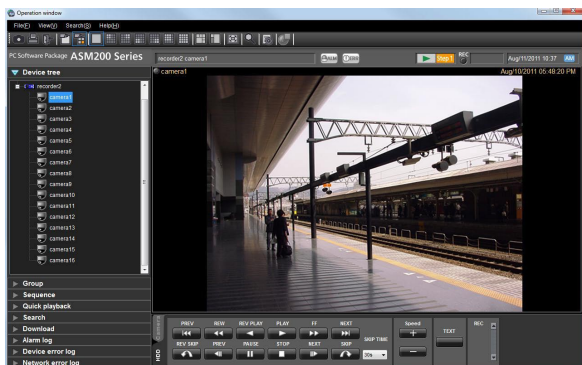
Step 1

Play recorded images on a 1-screen.

→ Refer to the "Playback" section (page 89) for how to play images.

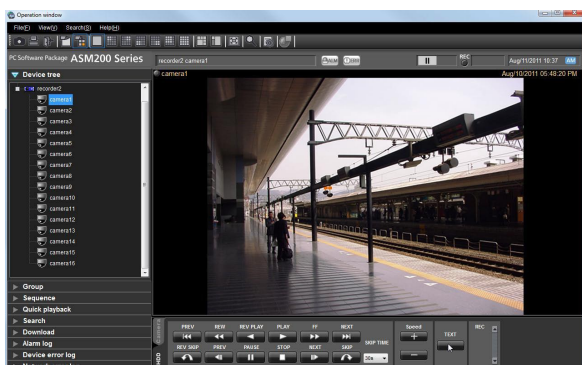
Step 2

Pause the playback by clicking the [PAUSE] button.

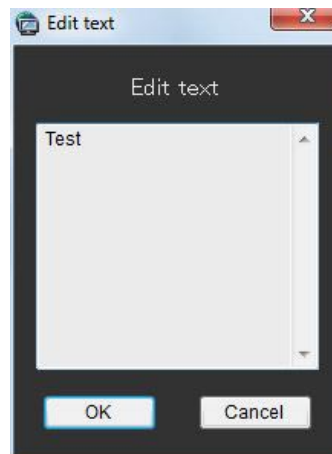


Step 3

Click the [TEXT] button on the playback operation panel.



→ Text information of the recorded images will be displayed.



Step 4

Edit the text information.

Note:

- Available characters
The following characters are available for text information.
A B C D E F G H I J K L M N O P Q R S T U V W X
Y Z a b c d e f g h i j k l m n o p q r s t u v w x y z
0 1 2 3 4 5 6 7 8 9 ! " # \$ % & ' () * + , - . / : ; < = >
? @ [\] ^ _ ` { | } (space)
- A break (line feed) can be entered by pressing the [Ctrl] key and the [Enter] key simultaneously.

Step 5

Click the [OK] button.

→ The confirmation window will be displayed.

Step 6

Click the [OK] button.

→ The edited text will be registered, and the confirmation window and the "Edit text" window will close.

Convert a file to the standard format

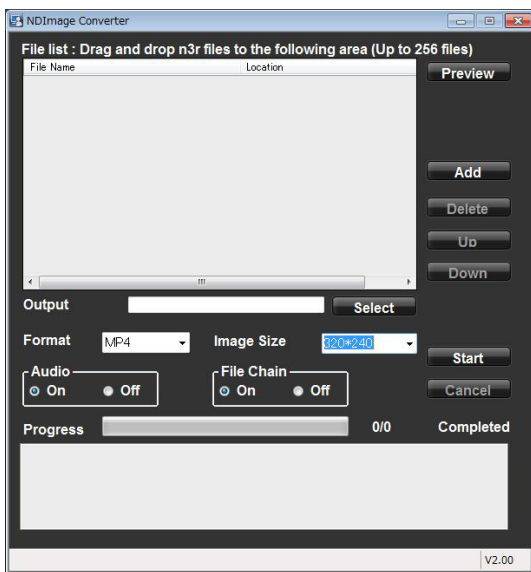
The n3r files downloaded from the recorder will be converted to playable files on the media player, etc.

Note:

- If the downloaded n3r file is an image data from a device manufactured by other than Panasonic, the file conversion will not be supported.
- When a removable HDD formatted on the 32-bit OS is connected to a PC whose OS is the 64-bit edition, it may fail to designate the removable HDD as a saving destination.
- The converted image may not be displayed smoothly depending on the selected image size.
- After conversion, the image quality of the file will be set to the standard level.
- The frame rate will be set to 30 fps.

Step 1

Click the [File conversion] icon on the tool bar.
→ The file conversion window will be displayed.



Note:

- When a user who is not allowed to convert a file logged in to this software, the [File conversion] icon will not be displayed.

The details are as follows.

■ File Name

Indicates the list of source n3r files.

■ Location

Indicates the full paths of source n3r files.

■ Output

Indicates the names of the folders to output the converted files.

■ [Select] button

Open the folder to output a converted file.

■ Format

Select the format of converted image data.

mp4: Convert to mp4 file.

WMV: Convert to wmv file.

■ Image Size

Select the resolution from the following.

1920x1080/ 1280x960/ 1280x720/ 960x720/

800x600/ 720x576/ 720x480/ 640x640/ 640x480/

320x320/ 320x240

■ Audio

Select whether or not to load the audio (n3a) file during conversion.

On: Load the audio file.

Off: Not to load the audio file.

■ File Chain

Select whether or not to combine two or more converted files together.

On: Combine files.

Off: Not to combine files.

■ [Preview] button

Display the "Preview" area.

■ [Add] button

Select a source file.

■ [Delete] button

Delete a source file from the list of the files to convert.

■ [Up] button

Change the order of listed files to the ascending order.

■ [Down] button

Change the order of listed files to the descending order.

■ [Start] button

Start conversion.

■ [Cancel] button

Cancel conversion.

■ Progress bar

The status of the download will be displayed.

■ Conversion status

"Number of files converted"/"Number of files to be converted" will be displayed.

Step 2

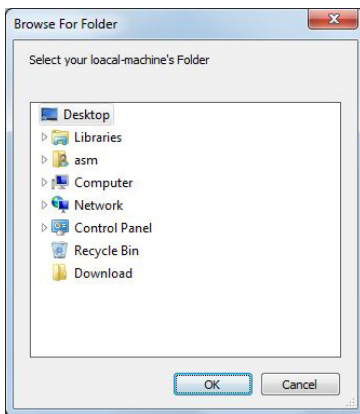
Drag and drop the source n3r file into the list of files.

Note:

- It is also possible to select the file by clicking the [Add] button.
- It is impossible to convert h3r files.
- File conversion starts sequentially according to the order of the list. To combine two or more converted files together, the content of the source files should be ordered chronologically. Click the [Up]/[Down] button to correct the chronological order.

Step 3

Click the [Select] button to select the destination folder.



When the [OK] button is clicked, the selected folder will be displayed as the output destination. When the [Cancel] button is clicked, output to the selected folder will be canceled.

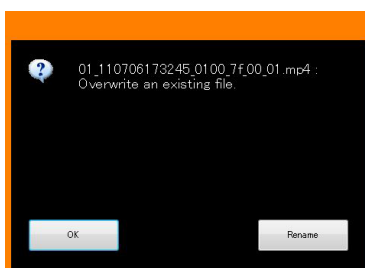
Step 4

Select the options of "Image Size", "Audio" and "File Chain".

Step 5

Click the [Start] button.

→ File conversion will start. If the name of the converted file is the same as an existing file, the window will be displayed to select whether or not to overwrite the existing one.



When the [OK] button is clicked, the file will be overwritten.

When the [Rename] button is clicked, it is possible to change the file name.

Note:

- If selecting a system folder such as "Program Files" as an output folder, the file may not be created in the selected folder regardless of successful file conversion. In this case, OS virtualization will create a system folder and files under; C:\User\- The file name will be automatically determined. The extension of the file will be changed from "n3r" to "mp4" or "wmv".
- The maximum size of an mp4 file or a wmv file is approx. 1.9 GB. When the size exceeds 1.9 GB during conversion, the file will automatically be divided into several files. The unique and sequential numbers will be given to these files.
- When the conversion of a file fails in the process, it will automatically be converted again into another file. However, the file will automatically be divided at the point of failure.
- When the file conversion error occurs, the details will be displayed in the message area.
- When playing a concatenated file (multiple files combined) and playback point reaches the joint point of the file, black screen may be displayed for a moment and break the flow of video and audio.
- A file that is incapable of continuing conversion may be created depending on the specified range of "n3r" file downloading. When such a file is detected, the following message will be displayed in the "Conversion status", and the conversion will be forcibly cancelled: "Conversion cancelled because of a file error. Retry after changing the start/end time of downloading." When this message is displayed, change the start and end time and download "n3r" file again. Then retry file conversion with the newly downloaded files.
- If conversion failed and the error code "-22176406" is displayed, reboot the PC.

Converting audio of the network microphone to the standard format

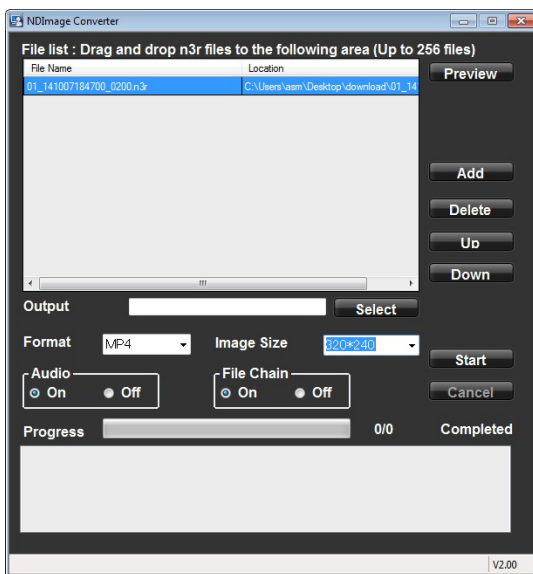
The audio recorded from the network microphone can be converted to the standard format by specifying the sound collection position, two positions at maximum.

Step 1

Drag and drop the n3r file of the linked camera into the list of files.

Note:

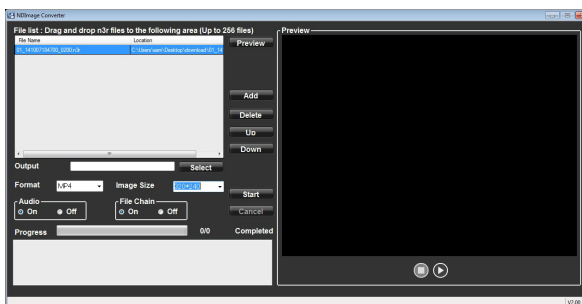
- It is also possible to select the file by clicking the [Add] button.



Step 2

Click the [Preview] button.

→ The "Preview" area will be displayed.



The details are as follows.

■ Preview start button (▶)

Starts preview.

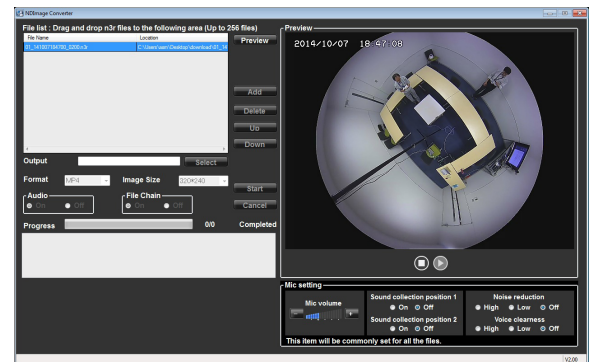
■ Preview stop button (◻)

Stops preview.

Step 3

Click [▶].

The selected file preview will be started, and the "Microphone setting" area will be displayed.



Note:

- The "Microphone setting" area will not be displayed if other than the files of the linked camera are played.
- The "Microphone setting" area will not be displayed if the image of the linked camera is other than fisheye.
- If no audio file (n3a) exists, the "Microphone setting" area will not be displayed.
- When multiple files are selected, the top file will be previewed.
- Preview is not available during conversion.
- When "Off" is selected for both "Sound collection position 1" and "Sound collection position 2", the non-directional audio will be played.

The details are as follows.

■ Mic volume

Changes the volume of the microphone.

+: Increases the audio volume.

-: Decreases the audio volume.

Note:



- The greater volume has lower audio quality. Set the volume as low as possible.
 - If audio volume is too small or its quality is low, the audio sensitivity of the network microphone may not be set appropriately. Check and change the setting as required.
-

■ Sound collection position 1, Sound collection position 2

Sets up where to pick up the sound (sound collection position).

On: Enables sound collection position setting.

Off: Disables sound collection position setting.

When "On" is selected, the sound collection position marker   will be displayed and audio will be collected in the direction of the marker.

It is possible to move the sound collection position by dragging the sound collection position marker.

■ Noise reduction

Selects the noise reduction level for the microphone.

High: High level noise reduction.

Low: Regular noise reduction.

Off: Disables noise reduction.

Note:

- When "High" is selected, the noise will be reduced comparing to "Low". However the audibility may drop due to sound strain. Select the level according to the audibility.
-

■ Voice clearness

Selects the audio compensation level for the microphone in order to make better sound.

High: High level compensation.

Low: Regular compensation.

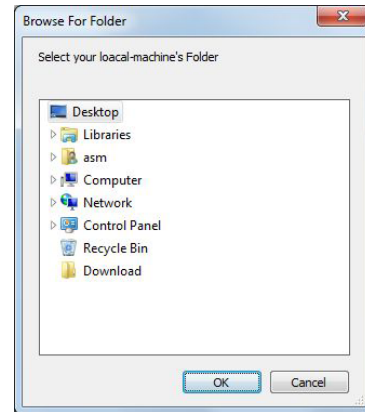
Off: Disables compensation.

Step 4

After specifying the sound collection position, click the [O] button.

Step 5

Click the [Select] button to select the destination folder.



When the [OK] button is clicked, the selected folder will be displayed as the output destination. When the [Cancel] button is clicked, output to the selected folder will be canceled.

Step 6

Set up "Image Size", "Audio", and "File Chain".

Note:

- Select "On" for "Audio". When "Off" is selected, the audio will not be converted.
-

Step 7

Click the [Start] button.

→ File conversion will start.

Note:

- When "Off" is selected for both "Sound collection position 1" and "Sound collection position 2", the non-directional audio will be converted.
 - The items set in the "Microphone setting" area will be commonly set for all the selected files.
 - The sound collection position marker will not be displayed in the preview window during conversion.
-

Control a decoder

Control a decoder

The following operations are available for a registered decoder.

- Displaying live images
- Switching the screen pattern
- Playing back the recorded images

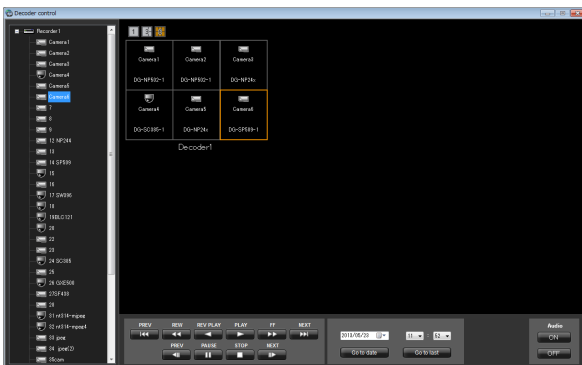
Note:

- These functions will become available after the license for the WV-ASE204 is added.
 - Depending on the devices connected to the decoder, network status or restrictions of WJ-GXD400, images from the decoder may sometimes not be displayed or controlled. Refer to the operating instructions of the decoder for further information about the restrictions.
-

Select a decoder

Step 1

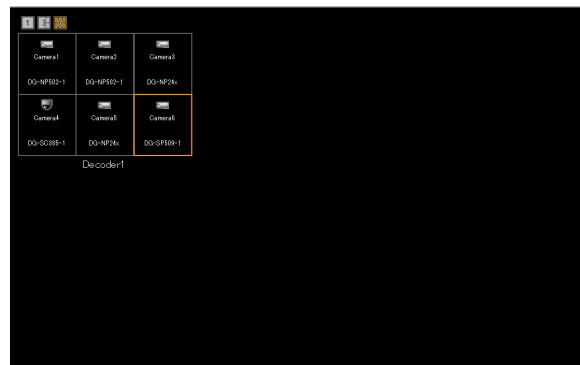
Click the [Decoder control] icon on the tool bar, select "Decoder control(G)..." on the menu bar or select the decoder (online) icon displayed from the device tree.
→ The "Decoder control" window will be displayed.



- The HD300, NV200, NV300, ASR500 or GXD400 icon will not be displayed in the device tree on the "Device control" window.
-

Step 2

Click (Select) the desired area associated with the desired decoder using a mouse.
→ The selected frame (in orange) will move.



Note:

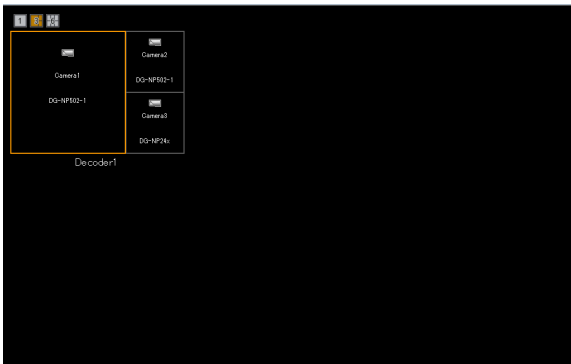
- When the "Decoder control" window is displayed for the first time, the display will be conformed to the downloaded current decoder status. After the window is displayed once, the current status will not be downloaded until the window is closed and displayed again. Therefore, if the "Decoder control" window has constantly been displayed, the status displayed on the window may differ from the actual status of the decoder depending on the control by another user or network errors. In this case, close and display the "Decoder control" window again.
- When the "Decoder control" window is displayed by clicking the [Decoder control] icon on the tool bar or by selecting "Decoder control(G)..." on the menu bar, the first area specified for the decoder that is displayed at the upper-left will be selected.

Switch the screen pattern of the decoder

Step 1

Select the 1-screen, 3-screen or 6-screen icon above the displayed areas associated with the decoder.

→ The screen pattern will be switched according to the selected icon, and the selected icon will turn orange.



Note:

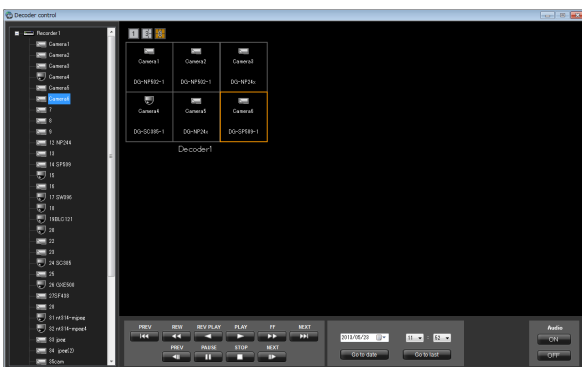
- If the currently selected area disappears when the screen pattern is switched, the first area will be selected with the frame.

Display live images using the decoder

Step 1

Select a camera from the device tree on the "Device control" window.

→ Live images will be displayed on the selected area associated with the selected decoder.

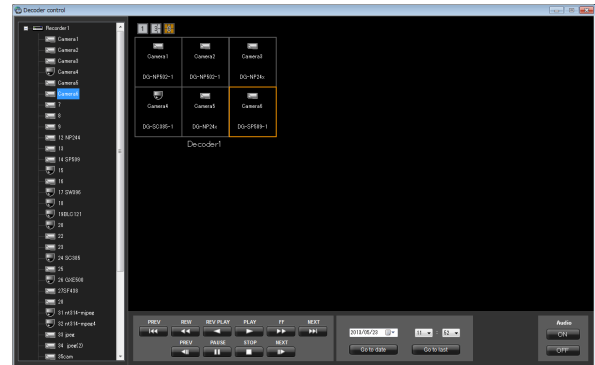


Start the audio output from the camera

Step 1

Press the [Audio ON] button.

→ The audio will be output from the selected camera to the selected decoder.



Note:

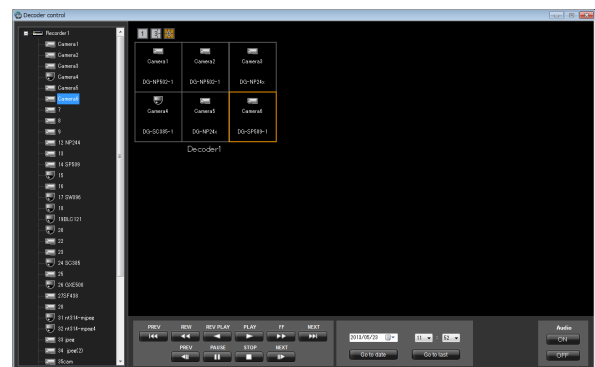
- It is possible to output the audio from only one channel at a time. (The latest output has the priority.)
- When "Unknown" is displayed for the selected camera or no camera has been registered for the selected channel, the [Audio ON] and [Audio OFF] buttons will not be displayed.

Stop the audio output from the camera

Step 1

Press the [Audio OFF] button.

→ The audio output from the selected camera will be stopped.



Note:

- When "Unknown" is displayed for the selected camera or no camera has been registered for the selected channel, the [Audio ON] and [Audio OFF] buttons will not be displayed.

Display recorded images using the decoder

Step 1

Select the desired area to play back recorded images associated with the desired decoder.

→ Playback operation panel will be displayed when the camera associated with the selected area is connected to the recorder.

Step 2

Perform one of the following.

- Click the [PLAY] button on the playback operation panel.
 - Select the time & date and click the [Go to date] button.
 - Click the [Go to last] button.
- Playback will start on the associated decoder.

Step 3

It is possible to control the following buttons when the decoder is in the playback status.

[PREV RECORD] button: Playback will start after skipping to the previous recorded image.

[REW] button: Fast reverse playback will be performed. Playback speed for fast reverse playback will be changed in the following order each time this button is clicked: Step 2 (Approx. 4x) → Step 3 (Approx. 8x) → Step 4 (Approx. 16x) → Step 5 (Approx. 32x) → Step 6 (Approx. 48x) → Step 7 (Approx. 96x)

Note:

- The step will not be displayed on the "Device control" window. The status will be same as the normal playback.
[REV PLAY] button: Reverse playback of a recorded image will be performed.
 - When playing MPEG-4 or H.264 images, some frames of recorded images may not be displayed. Reverse playback will be performed with the set refresh interval of the camera.
[REW] button: Fast reverse playback will be performed. Playback speed for fast reverse playback will be changed in the following order each time this button is clicked: Step 2 (Approx. 4x) → Step 3 (Approx. 8x) → Step 4 (Approx. 16x) → Step 5 (Approx. 32x) → Step 6 (Approx. 48x) → Step 7 (Approx. 96x)
 - The step will not be displayed on the "Device control" window. The status will be same as the normal playback.
 - This software does not support the fast playback smooth mode of the ND400. The playback mode will be normal fast playback.
[NEXT RECORD] button: Playback or reverse playback will start after skipping to the next recorded image.
[PREV IMAGE] button: The previous frame will be displayed when this button is clicked during pausing.
 - When playing MPEG-4 or H.264 images, some frames of recorded images may not be displayed. Reverse frame by frame playback will be performed with the set refresh interval of the camera.
[PAUSE] button: Playback will stop when this button is clicked during playback. Playback will resume when this button is clicked during pausing.
[STOP] button: Playback will stop and live images will be displayed.
[NEXT IMAGE] button: The next frame will be displayed when this button is clicked during pausing.
-

Viewer software

When an image file or an audio file is downloaded, the downloaded file will be saved as an image file (file name. n3r, file name.h3r) or an audio file (file name.h3a).

The viewer software can be downloaded together with the downloaded image file or audio file. Playback, saving and printing of the downloaded image file or audio file are available using the viewer software.

Note:

- Viewer software to be copied differs depending on the file to be downloaded.
 - If the extension of the file is "n3r": n3vsetup.exe
 - If the extension of the file is "h3r": Viewer.exe
 - The images of windows shown below for the following procedures are ND_Viewer.exe.
-

Install the viewer software

Note:

- When the older version of the viewer software is installed, installation may not be successfully completed. Uninstall the older version first before starting the installation.
 - The "Viewer.exe" is unnecessary to install.
-

Step 1

Double-click the downloaded installer file "n3vsetup.exe".

→ The installer will be launched. Follow the instructions displayed on the monitor.

Note:

- Read the content of the "License Agreement" window and select "I accept the terms in the license agreement".
 - It is possible to install the software even when "User Name" and "Organization" on the "Customer Information" screen are blank. Select "Anyone who uses this computer (all users)".
 - Select "Complete" for the setup type.
-

Step 2

Click the [Install] button.

→ Installation will start. When the installation is successfully completed, the installation completion window will be displayed. Click the [Finish] button.

Uninstall the viewer software

Note:

- The "Viewer.exe" is unnecessary to uninstall. Delete the file directly.

Step 1

Open "Programs - Uninstall a program" in "Control Panel".

Step 2

Select "ND_Viewer" from the presently installed programs and click the [Uninstall] button.
→ The uninstall program will be launched and the wizard will be displayed.

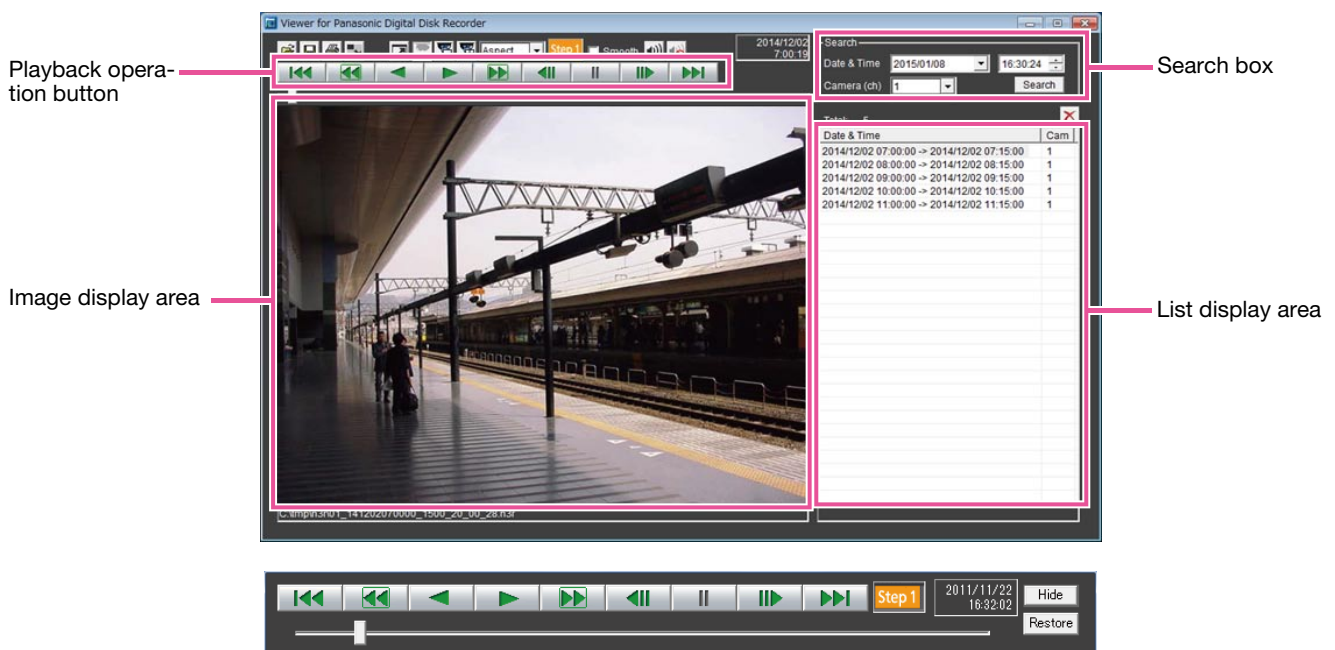
Step 3

Uninstall the program by following the displayed instructions.

How to use the viewer software (ND_Viewer)

Note:


- Viewer software to be used differs depending on the file to be played.
If the extension of the file is "n3r": ND_Viewer.exe
- If the extension of the file is "h3r": Viewer.exe
- It is impossible to play only an audio file (extension:h3a) using the viewer software.

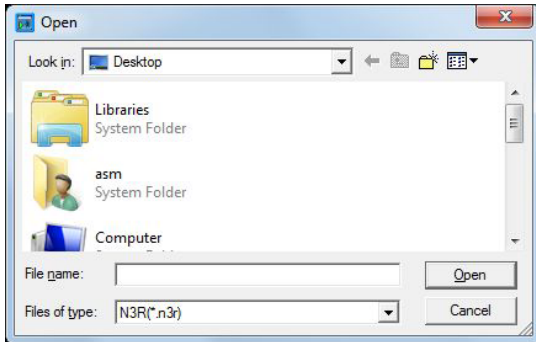


Playback operation window when images are displayed on a full screen

Select recorded images currently being played

Step 1


Start the viewer software and click the  button.
→ The "Open" window will be displayed.



Step 2

Select the desired download file (file extension:n3r) and click the [Open] button.
Or drag and drop the image data file into the viewer software without displaying the "Open" window.
→ The information of the selected file will be displayed in the list display area.
Date & Time: Indicates a start time and an end time for copying the recorded images.
Cam: Indicates the camera number.








Note:

- Do not change the file name of the copied or downloaded image data. If the file name is changed, the file information will not be displayed correctly.
 - It is possible to select multiple files (up to 100 files) by clicking the desired files while holding down the [Ctrl] key or the [Shift] key on the user keyboard and display all of them in a list by drag & drop.
 - The files can be sorted by start time and date in ascending or descending order by clicking the header of the list display area.
 - To add image data to the list display area, right-click the list and select [Add file] from the menu displayed. When the window for opening files is displayed, proceed to Step 2. The image data added will be displayed on the sorted list.
 - When the number of displayed image data files has reached 100, no more files can be added. The total number of selected image data files is displayed under [Total:] on the list.
 - Clicking the  button will delete all data displayed on the list. Another way to clear the list is to right-click the list and select [Clear all list].
 - When there is a data in the same directory as the viewer software or the "data" folder in the same directory, the data will automatically be loaded for playback.
-

Playback of recorded images

Use the playback operation button to play downloaded images. If an image from the same camera is displayed on the list, the next image in playback mode or the previous image in reverse playback mode will be played back consecutively. If the same camera channel is absent on the list, playback will stop, the image display area will turn black and the unit is paused.

Note:

- When starting playback of password protected data, the password entry screen will be displayed. Enter the current password correctly.
 - Clicking the  button in playback (or the  button in reverse playback) will play the next (or previous) image on the list of the camera whose image is currently being played back.
 - When the  button is clicked, the displayed image will be enlarged. Clicking the  button will reset the image to its original size.
 - If there is audio data (file name .n3a), the  /  buttons will be displayed. Click these buttons to play back with or without audio.
 - When this software and the viewer software are running at the same time, audio may not be played properly. To play audio correctly, use either of them and close the other.
 - Playback images and audio may sometimes not be synchronized exactly.
 - When the [Search] button is clicked after selecting [Date &Time] and [Camera(ch)] in the search box, playback of the image data of the selected camera data will start from the top of the data corresponding to the selected time and date.
 - Clicking the  button will display the image on a full screen. Clicking the [Restore] button on the operation window or pressing the [Esc] key on the keyboard will return the image display to the previous status.
 - When performance of the PC in use is low, images may not be played smoothly.
 - To play image data together with audio data, click the [Audio ON] button. (When using Viewer.exe)
 - It is impossible to play audio when no sound card is installed on the PC. (When using Viewer.exe)
 - Clicking the [Hide] button or right-clicking the mouse can hide the playback operation window.
 - Mark the "Smooth" checkbox to display the fast playback images more smoothly. The fast playback speed may be limited depending on the performance of the PC in use or process status.
-

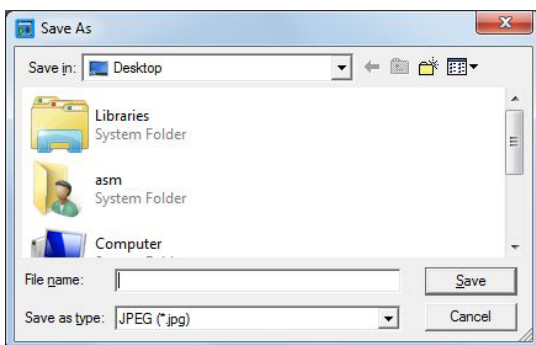
Save the downloaded image as a JPEG file

It is possible to save the paused image as a jpeg file (extension: jpg). Saving the downloaded file is available only when the image is paused.

Step 1

Click the  button.

→ The "Save As" window will be displayed.



Step 2

Enter the file name and select "JPG (*.jpg)" for "Save as type".

Designate the folder and click the [Save] button.

→ The paused image will be saved as a JPEG file.

Note:

- When using Viewer.exe, it is possible to save as a bitmap file by selecting "BMP (*.bmp)".
-

Save image data (copy) (ND_Viewer only)

Save selected image data (file name.n3r) in any folder on the PC.

Step 1

Right-click the list and select [Copy] from the menu displayed.

→ The "Save As" window will be displayed.

Step 2

Click the [Save] button after specifying a destination folder and the file name.


→ The image data will be saved as an n3r file.

Note:

- It is not possible to operate the viewer software while copy is in progress.
-

Print the downloaded image

Print the image displayed in the image display area.

Pause playback at the desired point and click the  button. When printing the image of an n3r file, time & date when the image is paused will be printed together.

Note:

- When using Viewer.exe, it is possible to select a print size from L/M/S.
-

Alteration detection

It is possible to detect the alteration of the data if a code for the alteration detection has been attached to the downloaded data.

The [ALT CHECK] button will be displayed only when opening a file with a code for the alteration detection.

Clicking the button starts alteration detection and displays the result in a window.

OK (Not Altered): No alteration was detected.




NG (Altered): Alteration was detected.

Display Single/Quad PTZ image converted from fisheye images




The function that can convert fisheye images from the fisheye camera into Single/Quad PTZ images is available (conversion function).

Important:

- To use the conversion function, download the conversion library from the following URL and install it on the PC on which the viewer software is used.
<http://security.panasonic.com/pss/security/support/info.html>
 - Refer to the provided leaflet "To customers using the extensive options for Fisheye network cameras" for information about the compatible models.
-

When the conversion function is applicable to the selected image,  /  /  buttons will be displayed. Click and select the conversion format.

Note:

- Clicking the  button will reset the converted image to the original fisheye image.
 - Clicking the  button will convert the fisheye image to a Single PTZ image.
 - Clicking the  button will convert the fisheye image to a Quad PTZ image.
 - When clicking on an image that is converted into a Single/Quad PTZ image, the image will be displayed while locating the clicked point at the center of the screen.
-

Alarm/event notification and management of logs

A pop-up window (notification window) will be displayed on the operation window when an alarm or an error occurred.

Alarm notification: Message provided from the sensor or the camera, etc.

Event notification: Message notifies of an error occurrence such as a recorder error or a network error

Important:

- It is necessary to configure the settings of a device to be used in order to use the alarm/event notification function.
- When also using the Panasonic alarm protocol function of the recorder, it is necessary to set the same number to the event action number and the recording camera number on the recorder.
Refer to the operating instructions of the recorder for how to configure the settings.

Note:

- Only when an event is a terminal alarm, it is unnecessary to set the same number to the terminal number and the recording camera number since the information of the recording camera configured for the terminal alarm setting on the recorder is used. Refer to the operating instructions of the recorder in use for how to configure the terminal alarm settings.
- When the recorder in use is the HD600, it is possible to select two or more recording cameras. The camera whose number is the smallest is used for this software.
- When the terminal alarm setting has been changed on the recorder, it is necessary to download the information from the recorder. In addition, if the information of the data in use has been downloaded from the recorder using WV-ASM100/WV-ASM100L (Version 7 or earlier), it is necessary to download the information from the recorder again. Refer to WV-ASM200 Setup Instructions (PDF) for how to download the information. Live images from the camera in which an alarm occurred can be displayed only when the login user is allowed to access this camera.
- Live images from the camera in which an alarm occurred can be displayed only when the login user is allowed to access this camera.
- Images recorded at an alarm occurrence can be played only when a login user is not restricted by the user level determined by the administrator to play the recorded images.

When an alarm/event notification is provided, one of the following logs will be filed.

Alarm log: A log that contains alarm information transmitted from the device using Panasonic alarm protocol

Device error log: A log that contains device error information transmitted from the device using Panasonic alarm protocol

Network error log: A log that contains information of a network error that occurred between this software and the device

Note:

- Refer to the WV-ASM200 Setup Instructions (PDF) for further information about the logs.

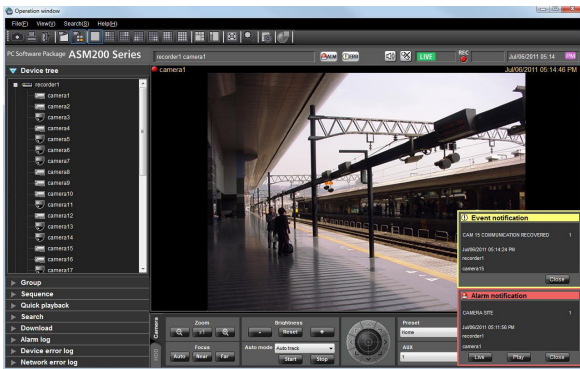
Alarm/event notification window

When an alarm/error occurred, descriptions of the alarm/error occurrence will be displayed in a pop-up window (notification window) on the operation window. The notification window will be displayed at the bottom right of the operation window. When there are two notification windows, the upper notification window is the newer one and the lower one is the older one.

When the lower message window displayed is closed, the upper message window moves to the position where the lower message window had been displayed.

Note:

- When a same type of alarm/event occurred while the message window is being displayed, the descriptions in the message window will be renewed.



■ Alarm notification message

Notifies of an alarm occurrence.

■ Event notification message

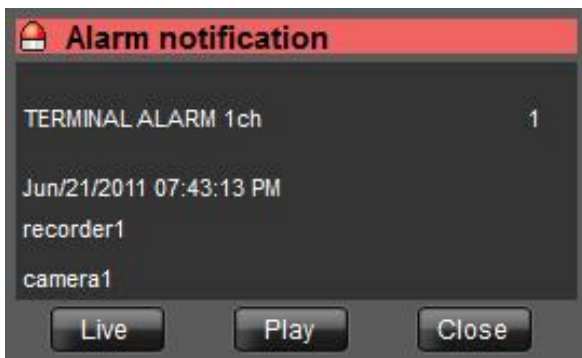
Notifies of an event occurrence.

Note:

- When an alarm/event occurred during the sub window such as the "Search" window is displayed, the buttons on the displayed message window are inoperable until the displayed sub window is closed.

"Alarm notification" window

When an alarm occurred, the "Alarm notification" window will be displayed. When an alarm occurred, the alarm buzzer will start sounding and the "Alarm notification" window will be displayed. When the "Alarm notification" window is closed, the "Alarm log" panel will be displayed. When an alarm notification is provided from the recorder during the "Alarm notification" window is displayed, the descriptions in the notification message window will be renewed and the latest alarm information will be displayed.



■ Alarm notification message

Alarm information, time & date of the alarm occurrence, the title of the recorder/encoder (that provided the notification) and the title of the camera will be displayed.

Note:

- When the device that provided an alarm notification is a camera, "--" will be displayed as the title of the device. However, when a Fisheye camera is specified as the device to provide the notification and "Quad streams" is selected for the setting, the title of the camera will be displayed instead of the recorder/encoder and the channel title will be displayed instead of the camera title.

■ Number of alarm occurrences

Total number of the alarm occurrences will be displayed. When the total number of the alarm occurrences exceeds 1000, the "1000<" indication will be displayed.

■ [Live] button

The "Alarm notification" window will close and live images from the camera in which the alarm occurred will be displayed on a 1-screen.

■ [PLAY] button

The "Alarm notification" window will close and playback of recorded images on a 1-screen will start from the point of 5 seconds before the alarm occurrence.

Note:

- When it is just after the alarm occurrence, playback may not start from the point of 5 seconds before the alarm occurrence.
- Depending on the settings of the recorder, playback may not start from the point of 5 seconds before the alarm occurrence.
- When an alarm notification is provided from an encoder or a camera that is not registered in the recorder, the [PLAY] button will not be displayed.
- When an alarm notification is provided from ASR500, the recorded image may not be displayed by clicking the [Play] button right after the alarm is notified because the data has not being stored.

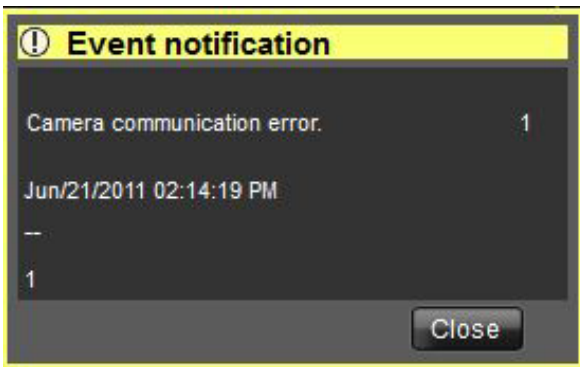
■ [Close] button

The error notification message window will close. The "Alarm log" panel will be displayed when the alarm notification message window is closed.

Event notification message window

The error notification message window provides notification of a device error or a network error occurrence. When an error occurred, the alarm buzzer will start sounding and the error notification message window will be displayed. When the error notification message window is closed, the "Device error log" panel or the "Network error log" panel will be displayed.

When an event notification is provided from the recorder during the event notification message window is displayed, the descriptions in the notification window will be renewed and the latest event information will be displayed.



■ [Close] button

The error notification message window will close. The "Device error log" panel or the "Network error log" panel will be displayed when the error notification window is closed.

■ Event log

Error information, time & date of the error occurrence, the title of the recorder/encoder (that provided the notification) and the title of the camera will be displayed.

Note:

- When the device that provided an error notification is a camera, "--" will be displayed as the title of the device. However, when a Fisheye camera is specified as the device to provide the notification and "Quad streams" is selected for the setting, the title of the camera will be displayed instead of the recorder/encoder and the channel title will be displayed instead of the camera title.
-

■ Number of error occurrences

Total number of the error occurrences will be displayed. When the total number of the error occurrences exceeds 2000, the "2000<" indication will be displayed.

Alarm mode of the live window

When the Live window is active and "ON" is selected for "Alarm camera direct live window", the live window will be switched into the alarm mode and display live images from the camera in which the alarm occurred when receiving an alarm notification.

When receiving an alarm notification that is from a camera used for the alarm linkage function and whose alarm type is registered for the alarm linkage function, live images will be displayed according to the settings configured for the corresponding group.

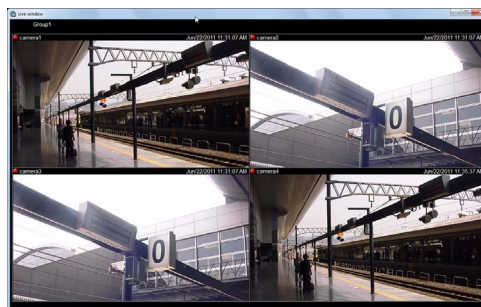
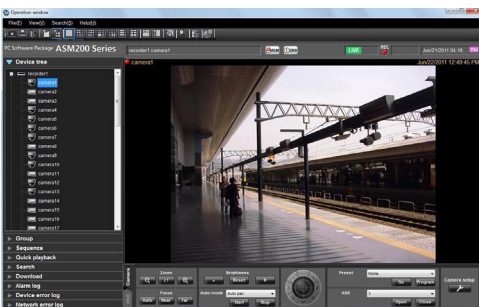
The live window will automatically be in the alarm mode when an alarm notification is provided regardless of the current operation (sequence display, group display, minimized, full screen display) of the live window.

Note:

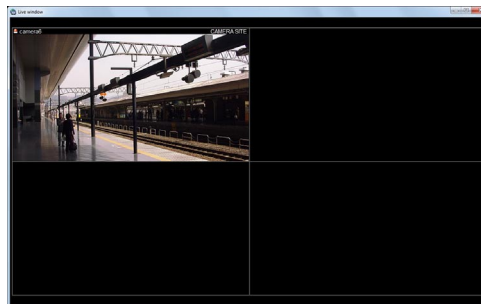
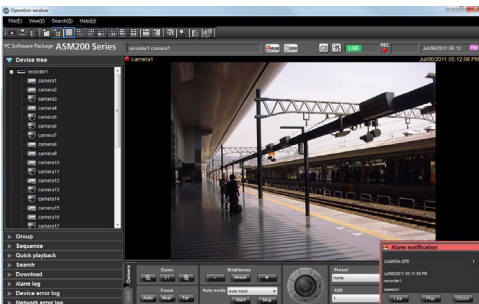
- Live images will be displayed on a screen selected for the "Number of alarm camera direct live window" setting (1-screen/3A-screen/3B-screen/4-screen/6-screen/7-screen/9-screen/10-screen/13-screen/16-screen/25-screen/36-screen/49-screen/64-screen) on the [Alarm] tab when the live window is in the alarm mode. Only an administrator can configure the "Number of alarm camera direct live window" setting. Refer to the WV-ASM200 Setup Instructions (PDF) for further information.
- When the number set for the "Number of alarm camera direct live window" setting on the [Alarm] tab of the "Alarm" page is more than the number set for "Live window (multi-screen) with the maximum number of areas", the number set for "Live window (multi-screen) with the maximum number of areas" will be applied. Only an administrator can configure the "Live window (multiscreen) with the maximum number of areas" setting. Refer to the WV-ASM200 Setup Instructions (PDF) for further information.
- When the live window is not opened, the alarm camera direct live window function will not be performed.
- When the number of multi-screen areas of the group that is set for the alarm linkage setting is more than the maximum number of areas for Live window 1, the group display will not be performed. Live image from the channel in which an alarm occurred will be displayed.
- Even after the license for the WV-ASE202 is added and while more than one live window are being displayed, the alarm camera direct live window function will be performed only on a Live window (1).

When the live window is active

• Normal operation



• Alarm status



Note:

- The display position and the window size of the live window when it is started will be the same as of the last time the live window is closed.
 - When the set time (auto reset wait time) has passed after the live window shifted into the alarm mode, the live window returns to the previous operation. Only an administrator can configure the "Auto reset wait time" setting. Refer to the WV-ASM200 Setup Instructions for further information about the "Auto reset wait time" setting.
 - When alarms occurred sequentially before the alarm is reset automatically, live images from the cameras will be displayed in from the upper left area in order. When the number of alarm occurrences exceeds the maximum number of areas ("Number of alarm camera direct live window"), live images of the older alarm will be canceled and live images of newer alarm will be displayed in order (live images displayed in the upper left area will be the first to be canceled).
-

Simultaneously display live images of two or more alarms when alarms occurred sequentially

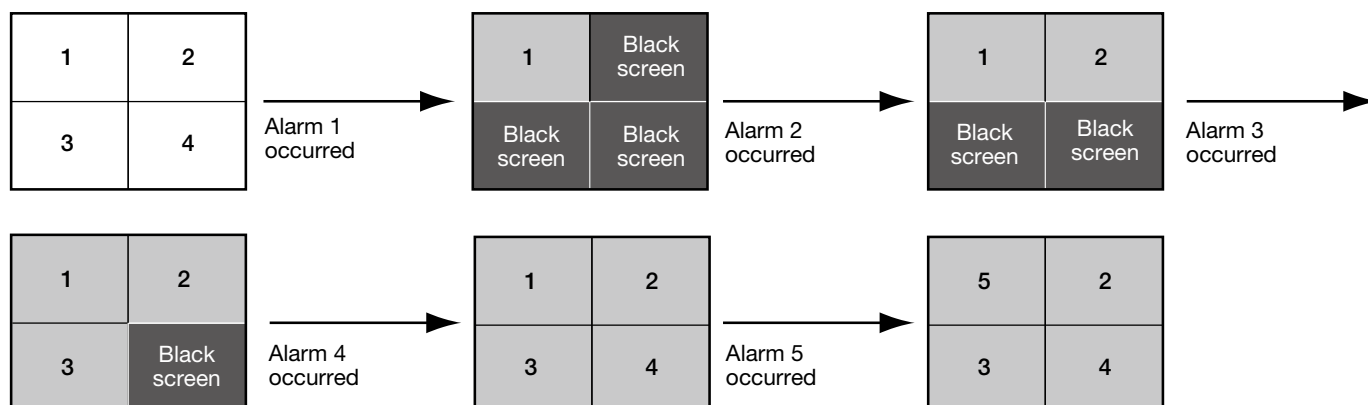
Depending on a screen selected for the "Number of alarm camera direct live window" setting (1-screen/3A-screen/3B-screen/4-screen/6-screen/7-screen/9-screen/10-screen/13-screen/16-screen/25-screen/36-screen/49-screen/64-screen) on the [Alarm] tab of the "Alarm" page, live images will be differently displayed as follows. When "1-screen" is selected, live images will be sequentially displayed in the order of the alarm occurrences.

Note:

- 25-screen or more will become available after the license for the WV-ASE202 is added.
 - The following are descriptions of how this software works when received an alarm from a camera for which the settings for the alarm linkage function is not configured and the function is not active. When the settings for the alarm linkage function are configured and the function is active, images will be displayed on the specified multi-screen and be switched according to the configured settings.
 - When received an alarm from a camera for which the settings for the alarm linkage function is not configured and the function is not active while the settings for the alarm linkage function are configured on this software, only images corresponding to the latest received alarm will be displayed after switching the screen to the multi-screen with the specified number of areas.
-

When "4-screen" is selected for the "Number of alarm camera direct live window" setting on the [Alarm] tab

Live images will be displayed as follows. When the number of alarm occurrences exceeds 9, live images of the older alarm will be canceled and live images of newer alarm will be displayed in order (live images displayed in the upper left area will be the first to be canceled).



When "3A-screen" is selected for the "Number of alarm camera direct live window" setting on the [Alarm] tab

Live images will be displayed as follows. When the number of alarm occurrences exceeds the maximum number of areas ("Number of alarm camera direct live window"), live images of the older alarm will be canceled and live images of newer alarm will be displayed in order (live images displayed in the upper left area will be the first to be canceled).

1	2
	3

When "3B-screen" is selected for the "Number of alarm camera direct live window" setting on the [Alarm] tab

Live images will be displayed as follows. When the number of alarm occurrences exceeds the maximum number of areas ("Number of alarm camera direct live window"), live images of the older alarm will be canceled and live images of newer alarm will be displayed in order (live images displayed in the upper left area will be the first to be canceled).

1	2
3	

When "6-screen" is selected for the "Number of alarm camera direct live window" setting on the [Alarm] tab

Live images will be displayed as follows. When the number of alarm occurrences exceeds the maximum number of areas ("Number of alarm camera direct live window"), live images of the older alarm will be canceled and live images of newer alarm will be displayed in order (live images displayed in the upper left area will be the first to be canceled).

1	2	3
4	5	6

When "7-screen" is selected for the "Number of alarm camera direct live window" setting on the [Alarm] tab

Live images will be displayed as follows. When the number of alarm occurrences exceeds the maximum number of areas ("Number of alarm camera direct live window"), live images of the older alarm will be canceled and live images of newer alarm will be displayed in order (live images displayed in the upper left area will be the first to be canceled).

1	2	
3	4	5
	6	7

When "9-screen" is selected for the "Number of alarm camera direct live window" setting on the [Alarm] tab

Live images will be displayed as follows. When the number of alarm occurrences exceeds 9, live images of the older alarm will be canceled and live images of newer alarm will be displayed in order (live images displayed in the upper left area will be the first to be canceled).

1	2	3
4	5	6
7	8	9

When "10-screen" is selected for the "Number of alarm camera direct live window" setting on the [Alarm] tab

Live images will be displayed as follows. When the number of alarm occurrences exceeds the maximum number of areas ("Number of alarm camera direct live window"), live images of the older alarm will be canceled and live images of newer alarm will be displayed in order (live images displayed in the upper left area will be the first to be canceled).

1	2		
3	4	5	6
7	8	9	10

When "13-screen" is selected for the "Number of alarm camera direct live window" setting on the [Alarm] tab

Live images will be displayed as follows. When the number of alarm occurrences exceeds the maximum number of areas ("Number of alarm camera direct live window"), live images of the older alarm will be canceled and live images of newer alarm will be displayed in order (live images displayed in the upper left area will be the first to be canceled).

1		2	3
		4	5
6	7	8	9
10	11	12	13

When "16-screen" is selected for the "Number of alarm camera direct live window" setting on the [Alarm] tab

Live images will be displayed as follows. When the number of alarm occurrences exceeds 16, live images of the older alarm will be canceled and live images of newer alarm will be displayed in order (live images displayed in the upper left area will be the first to be canceled).

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

When "25-screen" is selected for the "Number of alarm camera direct live window" setting on the [Alarm] tab

Live images will be displayed as follows. When the number of alarm occurrences exceeds 25, live images of the older alarm will be canceled and live images of newer alarm will be displayed in order (live images displayed in the upper left area will be the first to be canceled).

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

When "36-screen" is selected for the "Number of alarm camera direct live window" setting on the [Alarm] tab

Live images will be displayed as follows. When the number of alarm occurrences exceeds 36, live images of the older alarm will be canceled and live images of newer alarm will be displayed in order (live images displayed in the upper left area will be the first to be canceled).

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

When "49-screen" is selected for the "Number of alarm camera direct live window" setting on the [Alarm] tab

Live images will be displayed as follows. When the number of alarm occurrences exceeds 49, live images of the older alarm will be canceled and live images of newer alarm will be displayed in order (live images displayed in the upper left area will be the first to be canceled).

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35
36	37	38	39	40	41	42
43	44	45	46	47	48	49

When "64-screen" is selected for the "Number of alarm camera direct live window" setting on the [Alarm] tab

Live images will be displayed as follows. When the number of alarm occurrences exceeds 64, live images of the older alarm will be canceled and live images of newer alarm will be displayed in order (live images displayed in the upper left area will be the first to be canceled).

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

Information display area

When the live window is in the alarm mode, alarm information will be displayed in the information display area.

Note:

- When the live window is in the alarm mode, the group information display area will be hidden and the camera information display area will be displayed regardless of the settings.
 - When the live window returns to the normal mode from the alarm mode, the group information display area and the camera information display area will be displayed/hidden according to the settings.
-

camera1

TERMINAL ALARM 1ch

■ Alarm icon

The alarm icon window will be displayed when the live window is in the alarm mode.

■ Camera

Name of the camera from which images are currently being displayed will be displayed.

■ Descriptions of the alarm

Descriptions of the alarm will be displayed.

Reset the alarm mode

When the set time (auto reset wait time) has passed after the live window shifted into the alarm mode, the live window returns to the previous operation. When an alarm occurred before the alarm is reset automatically, the live window will be in the alarm mode until the set time has passed from the moment when the new alarm has occurred. When alarms occurred sequentially, the alarm mode will continue until the set time has passed from the moment when the newest alarm has occurred.

When "Alarm mode reset" is selected from the pop-up menu displayed by right-clicking on the image display area, the alarm mode can be reset even when the set time has not passed yet.



■ Alarm mode reset

The live window will return to the previous operation mode.

■ Full screen

The live window in the alarm mode can be displayed on a full screen.

Emergency recording input alarm

In the state of emergency, emergency recording will sometimes be performed manually using the external switch.

In this case, the emergency recording input alarm will be notified. An emergency recording input alarm usually contains information of multiple channels, and they will be filed as logs in the "Alarm log" panel. However, only the information of the biggest channel number will be displayed in the "Alarm notification" window.

Alarm mode of the map window

When receiving an alarm, the icon of the camera in which an alarm occurred will blink red. The camera icon will start blinking red for 10 seconds and then displayed in red without blinking. When the icon displayed in red (or blinking red) is clicked, live images from the camera will be displayed in the selected area of the operation window and the camera icon will return to the normal camera icon.

The map operation may vary depending on the setting for "Auto change of map".

ON: Change the display to the map that has registered the camera in which an alarm occurred.

OFF: Does not change the display to the map that has registered the camera in which an alarm occurred.

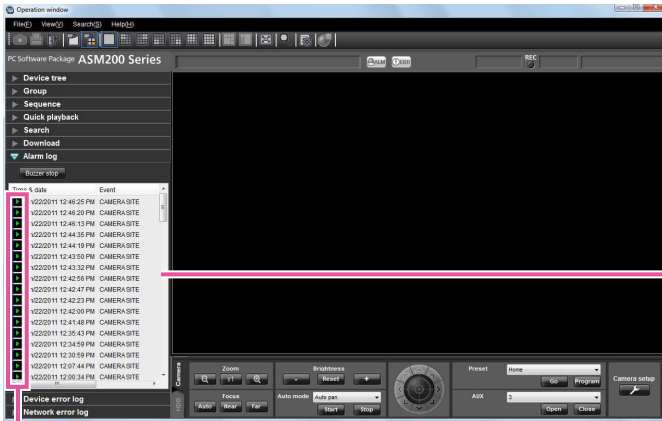


Note:

- When alarms occurred sequentially (within less than 1 second), the map will not be changed even if "ON" is selected for "Auto change of map".
 - When the [Live] button or the [Play] button on the "Alarm notification" window is clicked, images from the corresponding camera will be displayed and the respective camera icon that has been displayed in red or blinking red will return to the normal camera icon.
-

"Alarm log" panel

When an alarm occurred, the description of the alarm will be filed as a log in the "Alarm log" panel. Up to 1000 logs will be displayed in the alarm log panel.



Alarm log list

Play icon

■ [Buzzer stop] button

The buzzer sounding to announce an alarm or error will be stopped.

■ Alarm log list

Descriptions of the notified alarms will be displayed in list form. Up to 1000 descriptions will be displayed.

■ [Play] icon

Recorded images relating to a log can be played when this icon is displayed next to a log.

■ Time & date

Time & date when the alarm occurred will be displayed. The time & date will be followed by an asterisk "*" when the daylight saving time is applied.

■ Event

Description of the alarm will be displayed.

■ Sender

The title of the device in which the alarm occurred will be displayed.

Note:

- When the device in which an alarm occurred is a camera, "--" will be displayed.

■ Camera

The title of the camera in which the alarm occurred will be displayed.

Note:

- When a log with the [Play] icon in the alarm log list is clicked, playback of recorded images will start on a 1-screen. Playback will not start when the [Play] icon is not displayed next to the alarm log.
- The alarm log list will be kept updated.

Playback from the alarm log list

When the desired alarm log is clicked, recorded images from the camera connected to the recorder in which the alarm occurred will be played on a 1-screen.

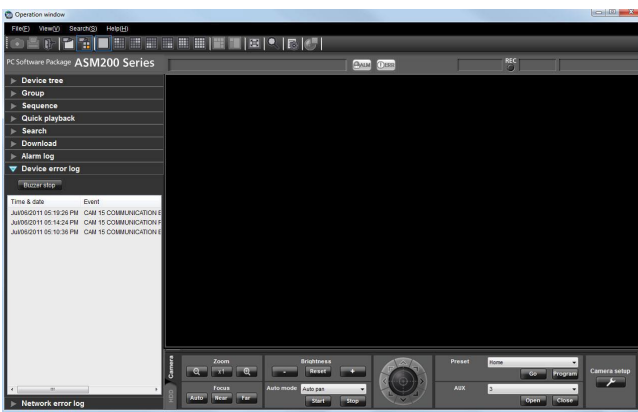
Note:

- Playback from the alarm log list will start from the point 5 seconds before the alarm occurrence.
- Depending on the settings of the recorder, playback may not start from the point of 5 seconds before the alarm occurrence.
- When playing back images from the alarm log list with ASR500, the recorded image may not be displayed right after the alarm is notified because the data has not being stored.

- The [Play] icon will not be displayed in the following cases.
- The login user is not allowed to access the camera.
- The login user is not allowed to play recorded images.
- The listed recorder or camera is removed from the system.
- An alarm notification is provided from an encoder or a camera that is not registered in the recorder.

"Device error log" panel

When a device error occurred, the description of the error will be filed as a log in the "Device error log" panel. Up to 1000 logs will be displayed in the device error log panel.



Note:

- The device error log list will be kept updated.

■ [Buzzer stop] button

The buzzer sounding to announce an alarm or error will be stopped.

■ Device error log list

Descriptions of the notified errors will be displayed in list form. Up to 1000 descriptions will be displayed.

■ Time & date

Time & date when the device error occurred will be displayed. The time & date will be followed by an asterisk "*" when the daylight saving time is applied.

■ Event

Description of the device error will be displayed.

■ Sender

The title of the device in which the alarm occurred will be displayed.

Note:

- When the device in which a device error occurred is a camera, "--" will be displayed.

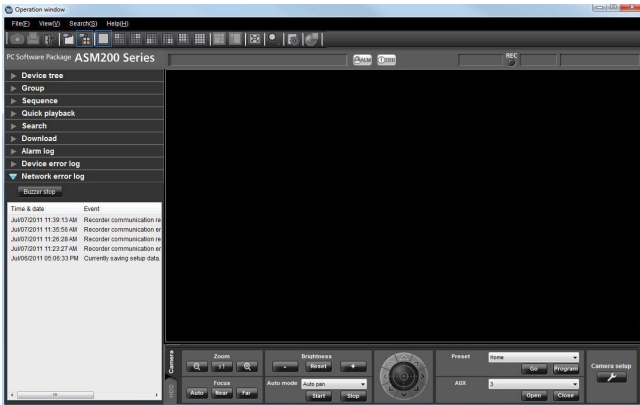
■ Camera

The title of the camera in which the device error occurred will be displayed.

"Network error log" panel

When a network error occurred, the description of the error will be filed as a log in the "Network error log" panel.

Up to 1000 logs will be displayed in the network error log panel.



Note:

- The network error log list will be kept updated.

■ [Buzzer stop] button

The buzzer sounding to announce an alarm or error will be stopped.

■ Network error log list

Descriptions of the notified errors will be displayed in list form. Up to 1000 descriptions will be displayed.

■ Time & date

Time & date when the network error occurred will be displayed. The time & date will be followed by an asterisk "*" when the daylight saving time is applied.

■ Event

Description of the network error will be displayed.

■ Sender

The title of the device in which the alarm occurred will be displayed.

Note:

- When the device in which a network error occurred is a camera, "--" will be displayed.

■ Camera

The title of the camera in which the network error occurred will be displayed.

Troubleshooting

Before asking for repairs, check the symptoms with the following table.

Contact your dealer if a problem cannot be solved even after checking and trying the solution in the table or a problem is not described below.

Important:

- When the settings of the setup menu of the device are edited, download device information again. Otherwise, some functions may not work correctly.
- Refer to the WV-ASM200 Setup Instructions (PDF) for further information about download of the device information.

Symptom	Cause/solution	Ref. pages
No live image is displayed.	<ul style="list-style-type: none"> • Isn't the event notification window displayed? Confirm the displayed description and contact the administrator. 	–
	<ul style="list-style-type: none"> • Isn't "OFF" selected for "MPEG-4 transmission" or "H.264 transmission" on the setup menu of the camera in use? Select "ON" for "MPEG-4 transmission" or "H.264 transmission". Refer to the operating instructions of the camera for how to configure the settings for MPEG-4 transmission. 	–
	<ul style="list-style-type: none"> • The recorder is currently being configured using "HDD DISK MENU", or the SD memory recording is being performed. Live images will be displayed when the configuration or the SD memory recording is completed. 	–
	<ul style="list-style-type: none"> • It may be necessary to format the hard disk of the recorder. Check the status of the recorder by accessing directly to the recorder from the web browser. 	–
	<ul style="list-style-type: none"> • It may be possible that the exceptional settings of Windows Firewall are not configured. Configure the exceptional settings of Windows Firewall. 	Setup Instructions (PDF)
Live image is not being refreshed.	<ul style="list-style-type: none"> • Both images and the displayed time & date are not being refreshed. Connection between the recorder and the camera may be disconnected or a network trouble may be occurred. Check the connection. 	–
No image is displayed when the sequence display is being performed.	<ul style="list-style-type: none"> • This may occur when MPEG-4 or H.264 images are used in the sequence display. Set the refresh interval of the camera to "1 second". Refer to the operating instructions of the camera in use for how to configure the settings. 	–
	<ul style="list-style-type: none"> • When load of the connected device is heavy, images to be displayed in the sequence display may be a black screen. In this case, it may sometimes be improved by setting the duration of the sequence display longer. 	–
	<ul style="list-style-type: none"> • When the recorder in use is the HD600, images to be displayed in the sequence display may be a black screen. Set the value of the live image transmission rate on the recorder higher than the sequence dwell time or select "QVGA" for "Live video resolution(1-screen)" and "Live video resolution(4-screen)". 	–

Symptom	Cause/solution	Ref. pages
Images to be displayed in the sequence display is slow to be changed. / Part of the displayed image is missing.	This may occur when audio is activated in the sequence display. it may be improved by selecting "OFF" for the audio setting.	Setup Instructions (PDF)
Cannot operate the camera.	<ul style="list-style-type: none"> It may be possible that the device in use is not compatible with this software. Check if the device in use is compatible with this software. 	-
	<ul style="list-style-type: none"> The selected image is not live image. Confirm that the indication [LIVE] is displayed in the selected area. 	28
	<ul style="list-style-type: none"> The camera icon is displayed as "Stationary camera". Select the PTZ camera icon. 	56
	<ul style="list-style-type: none"> When using ASR500, operation of the camera operation buttons or operation of the screen may sometimes not immediately be executed depending on the recorder in use. When this problem occurred, repeat the same operation. 	-
Cannot operate the recorder.	<ul style="list-style-type: none"> A user cannot operate the recorder due to the user level setting. Check the user level of the user on the "User setup" tab of the "User mng." window on the setup software. 	Setup Instructions (PDF)
A black screen is displayed during playback.	<ul style="list-style-type: none"> When playing recorded images on a multi-screen, a black screen may sometimes be displayed. Click the [PLAY] button. 	-
	<ul style="list-style-type: none"> The recorder is currently being configured using "HDD DISK MENU", or the SD memory recording is being performed. Playback will resume when the configuration or the SD memory recording is completed. However, the black screen may sometimes remain or images may sometimes not be refreshed even after the resume. In this case, click the [PLAY] button. 	-
	<ul style="list-style-type: none"> The recorder may be powered off. Turn on the power of the recorder. After confirming that the recorder started up correctly, click the [PLAY] button. 	-
	<ul style="list-style-type: none"> When the recorder in use is the HD600, images to be displayed may be a black screen if playback operation (playback after stop, fast playback/fast reverse playback, skipping to the next/previous recorded image, frame playback/reverse frame playback) is performed or camera channels are changed during playback. In this case, wait for a while until playback resumes or perform the playback operation again. Refer to the operating instructions of the HD600 for further information about the status of black screen displayed during playback. 	-

Symptom	Cause/solution	Ref. pages
Recorded images being played on a multi-screen do not synchronized based on the recording time.	<ul style="list-style-type: none"> When images recorded on different recorders are played on a multi-screen, recorded images displayed on a multi-screen will not be synchronized based on the recording time. Playback of recorded images will be synchronized only when they are from the same recorder. However, playback is not always synchronized precisely based on the recording time. In this case, click the [PLAY] button. 	–
Cannot download images.	<ul style="list-style-type: none"> This may be caused due to a device error or a network error. Display the logs and check the settings (Address, FTP port number, etc.) of the recorder from which the images are to be downloaded. 	Setup Instructions (PDF)
	<ul style="list-style-type: none"> Available space of the disk designated as the destination of the download file may be not enough. Secure the disk space. 	–
	<ul style="list-style-type: none"> The disk designated as the destination of the download file may be locked for writing. Allow the disk to be written on. 	–
	<ul style="list-style-type: none"> The path of the destination folder of the downloaded file may be too long. Make sure that the path is less than 250 characters. 	–
Cannot play the downloaded file.	<ul style="list-style-type: none"> The downloaded file may be damaged. Retry the download and play the newly downloaded file. 	–
	<ul style="list-style-type: none"> The recorded images to be downloaded may be deleted on the target recorder in the process of the download. After checking the recorder, retry the download and play the newly downloaded file. 	–
A black screen is displayed when playing the downloaded file.	<ul style="list-style-type: none"> An older version of the display adapter for the PC monitor may be used. Update the display adapter to the latest version. 	–
Designation of time & date does not work correctly when performing playback, search and download.	<ul style="list-style-type: none"> When the recorder in use is the ND300, ND400 or NV300, this may occur if different time zones are set for the recorder and the camera registered in the recorder. Set the same time zone for both the recorder and the camera. Refer to the operating instructions of the recorder in use for how to set the time zone. 	–
When displaying MPEG-4 or H.264 images on a multi-screen, images from two or more cameras are displayed in sequence on a single area.	<ul style="list-style-type: none"> This may occur due to the display adapter and driver combination of the PC. When this occurred, update the driver of the display adapter to the latest version first. 	–

Symptom	Cause/solution	Ref. pages
Image display is not performed smoothly or stops. (PC performance becomes low.)	<ul style="list-style-type: none"> The value set for "Maximum refresh interval (JPEG/VGA)" on the [Performance] tab of the "System" page may not be appropriate. Set an appropriate value for "Maximum refresh interval (JPEG/VGA)" on the [Performance] tab of the "System" page. 	Setup Instructions (PDF)
	<ul style="list-style-type: none"> It may be possible that the PC in use does not meet the system requirements. Check the system requirements for a PC. 	Setup Instructions (PDF)
	<ul style="list-style-type: none"> The value set for "Max bit rate (per 1 client)" on the setup menu of the camera that transmits MPEG-4 or H.264 images may not be appropriate for the CPU performance of the PC in use. Check the recommended settings of the camera when operating MPEG-4 or H.264 images. 	Setup Instructions (PDF)
	<ul style="list-style-type: none"> It may be possible that load of the connected device is heavy. In this case, it may sometimes be improved by reducing load of the connected device. 	–
	<ul style="list-style-type: none"> The display speed may delay when displaying a 60 fps high frame rate image in the full screen with a display higher resolution than the Full-HD. The symptom may be solved by setting "ON" for "Smooth display (buffering)" in "Basic setup 1" of "System". 	Setup Instructions (PDF)
Audio is interrupted or noise is produced.	<ul style="list-style-type: none"> Audio may be interrupted or noise may be produced when performing panning/tilting/zooming operation of the camera, or when multiple users are accessing the same camera simultaneously. Audio interruption and noise production can sometimes be reduced by setting the audio transmission intervals longer. Refer to the operating instructions of the camera or the encoder in use for how to configure the audio transmission intervals. 	–
	<ul style="list-style-type: none"> It may be possible that the audio function is set to be disabled. Select "ON" for "Audio" in "Basic setup 1" of "System". 	Setup Instructions (PDF)
	<ul style="list-style-type: none"> It may be possible that the image display area other than the upper left one is selected when displaying images on a multi-screen. Select the upper left one. 	28
	<ul style="list-style-type: none"> If it is as for the microphone, it may be possible that the operation condition for sound collection is not satisfied. Check whether the monitor settings are appropriate. 	82
Cannot transmit audio.	<ul style="list-style-type: none"> Aren't images being displayed on a full screen? When displaying images on a full screen, it is impossible to transmit audio. 	–

Symptom	Cause/solution	Ref. pages
<p>The group/sequence selected for "Default screen" is not displayed.</p> <p>Some steps of the sequence set for "Default screen" are not displayed.</p>	<ul style="list-style-type: none"> When the number of areas for the group display set for "Default screen" is more than the number set for "Operation window (multi-screen) with the maximum number of areas" or "Live window (multi-screen) with the maximum number of areas", a black screen will be displayed on a 1-screen. When the number of areas for the sequence display set for "Default screen" is more than the number set for "Operation window (multi-screen) with the maximum number of areas" or "Live window (multi-screen) with the maximum number of areas", excess steps will be skipped. When all steps are excess, a black screen will be displayed on a 1-screen. Set the number of areas for the group/sequence display to the same or less than the number set for "Operation window (multi-screen) with the maximum number of areas" or "Live window (multi-screen) with the maximum number of areas". 	Setup Instructions (PDF)
Cannot receive an alarm.	<ul style="list-style-type: none"> It may be possible that the exceptional settings of Windows Firewall are not configured. Configure the exceptional settings of Windows Firewall. 	Setup Instructions (PDF)
Live images are not displayed even when the camera icon indicates that the camera is online.	<ul style="list-style-type: none"> Depending on the communication status, the camera icon cannot indicate the correct status of the camera. When the camera icon displayed in the device tree or in the map window is clicked, the camera icon will indicate that the camera is online. The camera icon displayed on the "Search" window or on the "Download" panel will not change even when it is clicked. 	–
Live images are being displayed even when the camera icon indicates that the camera is offline.	<ul style="list-style-type: none"> It may be possible that the connection between the linked camera and the microphone is disconnected. Check the connection state of the microphone. 	–
The camera title displayed in the tool tip is different from the registered one.	<ul style="list-style-type: none"> Some of marks used for the camera title may not be displayed correctly. Example) When entering "&&" and "&", they will be displayed as "&" in the tool tip. 	–
No live image is displayed during operating the camera using the system controller.	<ul style="list-style-type: none"> Load of the device that is used to control the camera may be heavy. In this case, it may sometimes be improved by reducing load of the device to be used to control the camera. 	-
Displaying of images takes time.	<ul style="list-style-type: none"> Firmware of the device to be used to control the camera may be not the latest one. In this case, it may sometimes be improved by updating the firmware of the device to be used to control the camera to the latest one. 	6

Symptom	Cause/solution	Ref. pages
<p>The PC does not go into the sleep mode (system standby or system suspension).</p> <p>Images are not displayed correctly after returning from the sleeping mode, for example, live images are not refreshed.</p>	<ul style="list-style-type: none"> When this software is running, the PC may sometimes not go into the sleep mode. <p>Even the PC went into the sleep mode, the following may occur after returning from the sleep mode.</p> <ul style="list-style-type: none"> Live images are not refreshed Cameras for the sequence display are not switched "Alarm notification" window is not refreshed Fails in conversion to the standard format <p>When using this software, configure the PC not to go into the sleep mode.</p>	—
<p>Button names are displayed out of the button frames.</p>	<ul style="list-style-type: none"> If the screen dpi is set to "120 DPI", button names may be improperly displayed. <p>Select the "Settings" tab from the "Display Properties" window by clicking the [Advanced] button, and change the screen dpi.</p>	—
<p>For multicast, images from plural cameras are displayed in a mixed manner.</p>	<ul style="list-style-type: none"> If the same multicast address is assigned to two or more cameras, the images from the cameras are displayed in a mixed manner. <p>Therefore, assign different multicast addresses to different cameras.</p>	—
<p>Refresh of live images is unstable.</p> <p>The devices are disconnected.</p> <p>Image file downloaded from the FTP server is faulty.</p> <p>Images cannot be properly displayed, recorded, or played back.</p>	<ul style="list-style-type: none"> The line speed settings may be not the same between the connected device and the hub, for example, 100M BASE-TX Full for the unit and 100M BASE-TX half, etc. Some hubs change the line speed automatically depending on the network traffic and it may cause configuration errors. Check the line speed settings of both the connected device and the hub, and configure the line speed settings of both to conform them. (It is recommended to set "1000-FULL" for the line speed if your recorder, PC and hub support 1000 Mbps. If not, it is recommended to set "100-FULL".) 	—
<p>The following message is displayed on the event notification message window. "It is impossible to transmit JPEG images with the selected image capture size. Change the image capture size of JPEG."</p>	<ul style="list-style-type: none"> This message will be displayed when the selected image capture size is unavailable for the transmission of JPEG images with the selected image capture mode. Change the capture size of JPEG images using the setup software. When the settings of the setup menu of the camera are edited, select the camera again. 	Setup Instructions (PDF)

Symptom	Cause/solution	Ref. pages
The following message is displayed on the event notification message window. "The selected image compression method is different from the camera's. Change the setting."	<ul style="list-style-type: none"> This message will be displayed when the selected compression method (MPEG-4 or H.264 images) is set to OFF on the camera. Change the compression method using the setup software. 	Setup Instructions (PDF)
The following message is displayed on the event notification message window. "'OFF' is selected for the designated stream type. Change the setting."	<ul style="list-style-type: none"> This message will be displayed when the stream type is set to OFF on the camera. Change the stream type using the setup software. 	Setup Instructions (PDF)
The following message is displayed on the event notification message window. "G.711 or AAC in use for camera audio compression scheme. Change from G.711 or AAC to G.726."	<ul style="list-style-type: none"> This message will be displayed when the audio compression method of the camera is set to G.711 or AAC-LC. Change the audio compression method to "G.726 (32 kbps)". 	—
Cannot register the license.	<ul style="list-style-type: none"> The entered "Registration Key" may be not the same as the product to be used. Confirm that the information of the "Registration Key" obtained from the Key Management System is correspondent with the product to be used with this software. 	—
The selected area will not be displayed with the frame in orange.	<ul style="list-style-type: none"> It is impossible to select an area when clicking an area in black zones outside the image display area. Check the image display area. 	—
The following message is displayed on the event notification message window. "Cannot login. (Camera authentication error)"	<ul style="list-style-type: none"> The entered user name or password is not matched with the one set for the camera. Set the same user name and password on both the camera and this software. 	—
	<ul style="list-style-type: none"> "Digest" is selected for the user authentication method of the camera. This software does not support "Digest" for the user authentication. Select and set "Digest or Basic" or "Basic". 	—

Symptom	Cause/solution	Ref. pages
The displayed image is tilted toward upper left.	<ul style="list-style-type: none"> If the display is not appropriately set up, the video screen of the operation software may become abnormal. Check "Change the size of all items" of the Windows by selecting "Control Panel" - "Appearance and Personalization" - "Display". Select "Smaller-100%(default)" if anything else is selected. Or, select "Smaller" if "Larger" is selected. The setting will be reflected when logging on to Windows again. 	-
A black screen appears after a normal operation for a while. No error log is displayed.	<ul style="list-style-type: none"> If the translucent effect of the window called Windows Aero is overloaded, video images will not be displayed. To determine this, check if the display is restored by maximizing the screen after selecting an other channel or minimizing the screen. If the above is confirmed, the problem can be soled by disabling the Windows Aero function. Select the desired item in "Basic and High Contrast Themes" of "Control Panel" - "Appearance and Personalization" - "Personalization". If there is no particular item, select "Windows 7 Basic". Note that this setting is not available for Windows 8 or Windows 8.1. 	-
The setting for "Fisheye display mode (Fisheye camera)" cannot be applied.	<ul style="list-style-type: none"> The current screen pattern does not support "Fisheye display mode". This is applied only to images on 1-/4-screen, on left area of 3A-screen, on right area of 3B-screen, and on large areas of 7-/10-/13-screen. 	-
	<ul style="list-style-type: none"> The resolution of the camera is set for lower than 640×640 (for 9M Fisheye cameras) or 640×480 (for 3M Fisheye cameras). When a camera is registered in the NV200 or NV300, the resolution may automatically be set to 640×480. Check that the resolution setting of the camera is set for higher than 1280×1280 (for 9M Fisheye cameras) or 1280×960 (for 3M Fisheye cameras). 	
After the distortion has been compensated, the angular field of view has changed from the camera setting.	<ul style="list-style-type: none"> "Recorder" is selected for "Live image source" of the Fisheye camera registered in the recorder. Select "Camera", and check the images. 	-
	<ul style="list-style-type: none"> The preset positions of the camera have not been properly registered. Register the preset positions again, and check the images. 	
	<ul style="list-style-type: none"> The setting for the installation method "Ceiling", "Upside-down" or "Wall" has not been properly configured. Check that the same installation method has been set when the preset positions of the camera have been registered and when live images are displayed with this software. 	

Displayed messages and solutions

When starting the operation software

When a message window is displayed in the process of the startup, refer to the following to solve the problem.

Message	Solution
It is impossible to start the operation software unless the setup software is closed.	<ul style="list-style-type: none">The operation software cannot be started when the setup software is open. Click the [OK] button, and then start the operation software after closing the setup software.
The operating environment of this software could not be properly recognized. Check to see that the PC network environment is enabled and perform registration again.	<ul style="list-style-type: none">Confirm that the network adapter of the PC is enabled. If it is disabled, enable the setting.

When the [OK] button on the login window is clicked

When a message window is displayed by clicking the [OK] button on the login window, refer to the following to solve the problem.

Message	Solution
Please change the ADMIN password.	<ul style="list-style-type: none">The default password has not been changed. It is recommended to immediately change the password to enhance the security.
Please change the password.	<ul style="list-style-type: none">Logged in with the password whose validation period is over. It is recommended to immediately change the password to enhance the security.
Failed to log in.	<ul style="list-style-type: none">The entered user name or password is incorrect. Enter the correct user name and password.

When the [OK] button on the "Change password" window is clicked

When a message window is displayed by clicking the [OK] button on the "Change password" window, refer to the following to solve the problem.

Message	Solution
Enter 4 characters or more.	<ul style="list-style-type: none">The entered characters for the password are less than 3 characters. Enter 4 characters or more.
Entered current password is incorrect.	<ul style="list-style-type: none">The characters entered for the current password are incorrect. Enter the current password correctly.
Enter the same password.	<ul style="list-style-type: none">The characters entered for "New password" and "Enter the new password again to confirm" do not match. Enter the same password.

When the [Go to date] button on the "Quick playback" panel is clicked

When a message window is displayed by clicking the [Go to date] button, refer to the following to solve the problem.

Message	Solution
The designated recorder is not compatible to play SD memory data.	<ul style="list-style-type: none">This message will be displayed when the designated recorder is not compatible with the "SD memory rec." function and the "SD memory rec." checkbox is checked. Uncheck the "SD memory rec." checkbox.

When the [Download...] button on the "Download" panel is clicked

When a message window is displayed by clicking the [Download...] button on the "Download" panel, refer to the following to solve the problem.

Message	Solution
The designated recorder is not compatible to download SD memory data.	<ul style="list-style-type: none">This message will be displayed when the designated recorder is the HD300 and the "SD memory rec." checkbox is checked. Uncheck the "SD memory rec." checkbox.
The designated recorder is not compatible to download audio data.	<ul style="list-style-type: none">This message will be displayed when the designated recorder is the ND300 and the "Audio" checkbox is checked. Uncheck the "Audio" checkbox.
Audio will not be recorded by SD memory recording. Uncheck one of them.	<ul style="list-style-type: none">This message will be displayed when the designated recorder is the ND200 or ND400 and both the checkboxes of "Audio" and "SD memory rec." are checked. Uncheck one of them.
Up to 24 hours can be specified for time length to download.	<ul style="list-style-type: none">This message will be displayed when the designated download time range is more than 24 hours. Designate the download time range less than 24 hours.
The designated recorder supports "CD/DVD burn" only.	<ul style="list-style-type: none">This message will be displayed when the designated recorder is the ASR500 and any of the "Viewer" checkbox, the "Audio" checkbox or the "SD memory rec." checkbox is checked. Uncheck all the checkboxes.

When the [OK] button is clicked on the window for a folder designation

When a message window is displayed by clicking the [OK] button on the window for a folder designation, refer to the following to solve the problem.

Message	Solution
The same file name exists in the selected folder. Are you sure you wish to overwrite?	<ul style="list-style-type: none">This message will be displayed when the same file name already exists in the selected folder. Click the [OK] button to overwrite the existing file. When the [Cancel] button is clicked, the window for a folder designation will be displayed again.

When the [Audio transmission] button is clicked

When a message window is displayed by clicking the [Audio transmission] button, refer to the following to solve the problem.

Message	Solution
Are you wish to start audio transmission? When audio transmission starts, audio from the camera will not be heard.	<ul style="list-style-type: none">This message will be displayed by clicking the [Audio transmission] button when "Interactive" and "OFF" are selected for "Audio mode" and "Audio output" respectively on the setup menu of the camera. Click the [OK] button to start audio transmission. When the [Cancel] button is clicked, audio transmission will be canceled.

When an error occurred

When loading the setup file, a message window is displayed at an error occurrence, refer to the following to solve the problem.

Message	Solution
Please restart the operating system. When this message is displayed after the restart, please reinstall the software.	<ul style="list-style-type: none">This message will be displayed when a critical error occurred. Restart the operating system of the PC. When this problem is not solved even after the restart, reinstall the software.
Required data was not found in DB. Please load the backup data. When there is no backup data, please reinstall or initialize the setup data.	<ul style="list-style-type: none">This message will be displayed when the required data was not found in the database. Import the backup data.
Received an unexpected audio signal.	<ul style="list-style-type: none">If this message is displayed all the time or frequently, the microphone may be faulty.
Operation using a touch panel or a stylus is unavailable. Please use a mouse.	<ul style="list-style-type: none">A touch panel or a stylus is not supported to operate the sound collection position of the microphone setting panel. Please operate with a mouse.

When the [Image display] button on the VMD search tab is clicked

Message	Solution
Failed to obtain the image file.	<ul style="list-style-type: none">This message will be displayed when failed to obtain the images from the recorder. Confirm that the recorded data exists in the searching range.

When the [List/Play] button on the [SD] tab is clicked

When "Event" ("Alarm" and "Manual/Schedule") in the "SD log display/playback" window is selected

Message	Solution
List acquisition was failed due to FTP connection error.	<ul style="list-style-type: none"> • This message will be displayed when FTP connection failed due to such a reason as no available FTP ports. Confirm that the FTP access to camera is possible with the environment in use.
The SD function is not enabled.	<ul style="list-style-type: none"> • This message will be displayed in the following cases. <ul style="list-style-type: none"> • When a camera without the SD memory card slot (such as WV-SP102) is accessed → The SD function is unavailable since the camera is not equipped with the SD memory card slot. • When "Not use" is selected for the SD memory card setting on the camera → Change the setting to "Use". • When no SD memory card is inserted in the camera → Insert an SD memory card into the camera. • The SD memory card is inserted in the camera, but the card is not formatted correctly. → Format the SD memory card. Refer to operating instructions of the camera for further information. • When there are no H.264 image recorded by the SD memory recording (When there are only JPEG images) → Select "H.264" for the setting of SD memory recording.
List acquisition was failed due to user authentication error.	<ul style="list-style-type: none"> • This message will be displayed when the administrator name and the password configured for device registration are incorrect. Configure the administrator name and password registered on the camera.
List acquisition was failed (due to other FTP errors).	<ul style="list-style-type: none"> • This message will be displayed when network disconnection occurs during list acquisition. Check the network.

Operation using the system controller

This software can be operated using an optional system controller.

The following are descriptions of the available functions using the system controller and of how to operate. It is possible to restrict operable functions according to the user type (administrator or the registered users).

Important:

- It is necessary that the license for the Extension Software WV-ASE201 has been issued.
 - Operation response may be slow when comparing with an analog system since operations are performed via a network.
 - Turn on the power of the system controller after confirming that this software started up.
 - When the LAN cable is disconnected, a connection error with the system controller may occur.
 - When the [ADJUST] button is pressed, a connection error with the system controller may occur.
-

Note:

- [] indicates the button. When "+" exists between the buttons, press the both the buttons at once. When the indication "→" exists after an operation, the next operation is required to complete the operation.
 - ▼▲◀▶ of [Joystick], [JogDial], [Shuttle ring], [Zoom knob] indicate the operation direction of each interface.
-

Basic

Function	Key operation of the WV-CU950	Note
Number/numeric value entry	Numeric keys	
Cancel the entry	[CLEAR]	
Camera selection	Entry of camera number → [CAM (SET)]	<ul style="list-style-type: none"> • The live image of the selected camera will be displayed on a 1-screen on the operation window. • Assignment of numbers to the cameras is required in advance via the setup software.
Group selection	Entry of group number → [RECORDER]	<ul style="list-style-type: none"> • The selected group will be displayed on the operation window. • Assignment of numbers to the groups is required in advance via the setup software.
Sequence selection	Entry of sequence number → [TOUR SEQ]	<ul style="list-style-type: none"> • The selected sequence will be started on the operation window. • Assignment of numbers to the sequences is required in advance via the setup software.
Sequence stop	[SEQ PAUSE]	
Screen pattern change	[MULTI SCREEN]	The screen pattern of the operation window changes every time the button is pressed.
1-screen display	[F1]	The screen of the operation window is changed to the 1-screen pattern.
4-screen display	[F2]	<ul style="list-style-type: none"> • The screen of the operation window is changed to the 4-screen pattern. • The displayed 4-screen is changed in order of 4A → 4B → 4C → 4D every time the button is pressed.
9-screen display	[F3]	The screen of the operation window is changed to the 9-screen pattern.

16-screen display	[F4]	The screen of the operation window is changed to the 16-screen pattern.
Acknowledge the alarm	[ACK] [ALARM]	<ul style="list-style-type: none"> • The same operation will be performed as when the [Play] button on the "Alarm notification" window is clicked. • The same operation will be performed as when the [Live] button on the "Alarm notification" window is clicked.
Reset an alarm	[ALM RESET]	The same operation will be performed as when the [ALM] button on the status bar is clicked.
Determine	[ENTER]	The same operation will be performed as when the [Enter] key of the PC keyboard is pressed.
Cancel	[MON(ESC)]	The same operation will be performed as when the [Esc] key of the PC keyboard is pressed.

Operate the cameras

Basic operation	Key operation of the WV-CU950	Note
Preset position registration	Enter a preset number → [SHIFT] + [PRESET]	
Move the camera to the pre-set position	Enter a preset position number → [PRESET]	When no preset position number is entered, the camera will move to the home position.
Pan/tilt	[Joystick ▼ ▲ ◀ ▶]	The displayed image will move to the direction in which the joystick is tilted.
Adjust the brightness <ul style="list-style-type: none"> • Set brighter • Set darker 	[IRIS OPEN] [IRIS CLOSE]	Adjustment of the brightness will continue until the pressed button is released.
Adjust the focal point <ul style="list-style-type: none"> • Set farther • Set nearer • Perform the auto focus function 	[FOCUS FAR] [FOCUS NEAR] [TOP]	Adjustment of the focal point will continue until the pressed button is released.
Adjust the zoom <ul style="list-style-type: none"> • Set to the "wide" side • Set to the "tele" side 	[Zoom knob ◀] [Zoom knob ▶]	Zooming will continue until the zoom knob is being rotated.
External control 1/2 <Latch mode> <ul style="list-style-type: none"> • Set AUX1 to ON • Set AUX1 to OFF 	[AUX1 ON] [SHIFT] + [AUX1 ON]	<ul style="list-style-type: none"> • The mode setting can be configured on the receiver. (Only the latch mode is available for the cameras.) • When setting for an event such as the sequence display, set to the latch mode. • Operation for "AUX2" can be performed in the same manner as for "AUX1".
Auto mode <ul style="list-style-type: none"> • Start the auto mode • Stop the auto mode 	[A] [B]	
Auto track <ul style="list-style-type: none"> • Start auto track 	[TOP]	This function is available when "ON" is selected for "Auto track".

Wiper <ul style="list-style-type: none"> • Start the wiper action • Stop the wiper action 	[Wiper] [SHIFT] + [Wiper]	Controls the washer and wiper available with WV-SUD638 (scheduled to be released in September 2016†1). The item selected with "Wiper" on the "Camera" tab in the camera operation panel will be performed. †1: As of July 2016
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Operate the recorder

Basic operation	Key operation of the WV-CU950	Note
Start recording manually	[REC]	
<Operation during recording> <ul style="list-style-type: none"> • Stop the manual recording 	[SHIFT] + [REC]	
Playback of recorded images <Operation during playback> <ul style="list-style-type: none"> • PAUSE • FF • REW • NEXT IMAGE • PREV IMAGE • NEXT RECORD • PREV RECORD • Go to last • STOP • SKIP • REV SKIP 	[PLAY/PAUSE] [SHIFT] + [PLAY/PAUSE] [Shuttle ring ►] [Shuttle ring ◀] [JogDial ►] during pausing [JogDial ◀] during pausing [JogDial ►] while holding down [SHUTTLE HOLD] [JogDial ◀] while holding down [SHUTTLE HOLD] [GO TO LAST] [STOP] [+] [-]	

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