Panasonic

Setup 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

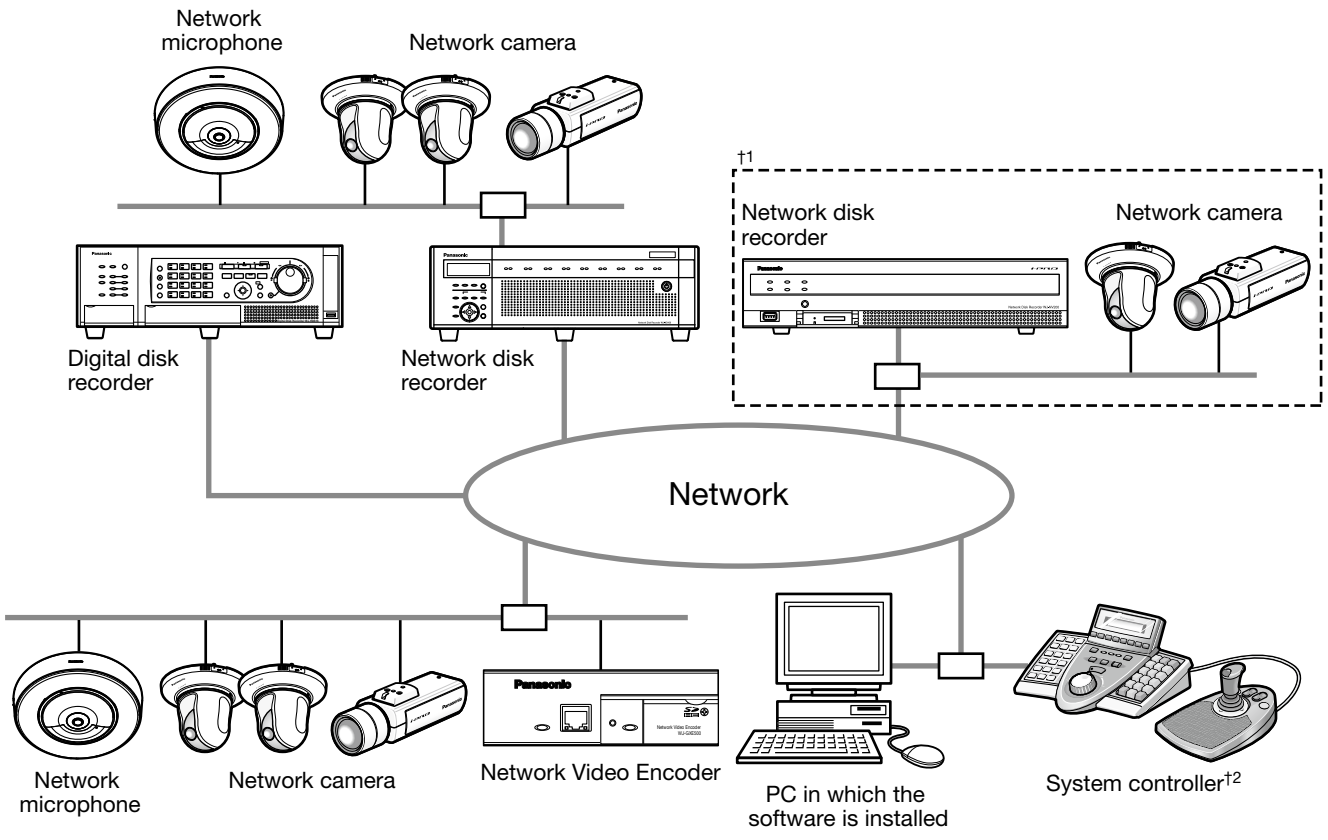
This software consists of the following 3 applications:

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

†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.
†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 exceeds 15 ips. (☞ Page 34)

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

- 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 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

About the setup software

An administrator or the registered user who is allowed to display the current settings can log in to the setup software. Only an administrator can configure the settings.
Even when logging in to the PC as an administrator, it is impossible to launch both the setup software and the operation software simultaneously. When launching one of them, make sure that the other one is not launched.
The following setup items can be configured using the setup software.

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-CU950

  Refer to "Settings relating to the license registration" (☞ page 141) 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

System

Contains settings required for basic operation of this software.
Refer to the "Settings relating to the system" section (☞ page 23) for further information.

Device mng.

Contains settings required to display live images or play recorded images, such as information of the recorders, the encoders, the cameras and the microphones.
Refer to the "Settings relating to the device management" section (☞ page 38) for further information.

User mng.

Each user should be defined as an administrator or a normal user in this software.
Information of each user can be managed on this page.
Refer to the "Settings relating to the user management" section (☞ page 75) for further information.

Camera

Contains settings relating to the camera group and the sequence display function.
Refer to the "Settings relating to the cameras" section (☞ page 86) for further information.

Window

Contains settings relating to the live window and the map window.
Refer to the "Settings relating to the window" section (☞ page 95) for further information.

Event

Contains settings relating to the event action such as displaying of the alarm notification window, sounding the buzzer, the alarm camera direct window function, displaying of the error notification window together with sounding the buzzer, etc.
Refer to the "Settings relating to the event action" section (☞ page 108) for further information.

Comm

Contains the settings relating to the communication and the alarm notification using the Panasonic alarm protocol.
Refer to the "Settings relating to the communication" section (☞ page 111) for further information.

Controller

Configures the camera number, group number, sequence number, all of which are used when controlling through the system controller.
Refer to "Settings relating to the controller" (☞ page 113) for further information.

Maintenance

Displaying of the version of this software and management of the logs/the setup data are available.
Refer to the "Settings relating to the maintenance" section (☞ page 122) for further information.

Registration of license

Registers the license to use this software and to add extensive options.
Refer to the "Settings relating to the license registration" section (☞ page 141) 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 of how to install this software and of how to configure the required settings to operate this software for an administrator.
The network settings will be different depending on the settings of the LAN or the Internet service provider. Refer to the network administrator for further information about the network settings.
Refer to WV-ASM200 Operating Instructions (PDF) for further information about how to operate each function of 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.

System requirements

It is recommended to install this software on a PC that meets the following system requirements.

OS†1:	Microsoft® Windows® 10 Pro (32 bit)†2
	Microsoft® Windows® 10 Pro (64 bit)†2 †3 †11
	Microsoft® Windows® 8.1 Pro (32-bit)†2
	Microsoft® Windows® 8.1 Pro (64-bit)†2 †3 †11
	Microsoft® Windows® 8 Pro (32-bit)†2
	Microsoft® Windows® 8 Pro (64-bit)†2 †3
	Microsoft® Windows® 7 Professional SP1 (32-bit)†2 †7
	Microsoft® Windows® 7 Professional SP1 (64-bit)†2 †3 †7
	Microsoft® Windows Vista® Business SP2 (32-bit)†2 †7
	Microsoft® Windows Vista® Business SP2 (64-bit)†2 †3 †7
OS language:	English, French, Spanish, German, Italian, Russian, Chinese (Simplified Chinese)
Computer:	IBM PC/AT Compatible
CPU:	Intel® Core™ i5-2400, 2500
	Intel® Core™ i7-860 or faster
	When displaying with 64-screen: Intel Core™ i7-2600
	When using a 9M Fisheye network camera: Intel Core™ i7-4770 or faster
	When using the visibility enhancement function: Intel® Core™ i7-4770 or faster
	When using 7-series cameras (3840x2160 or more): Intel Core i7-4790 or faster recommended
Memory:	3 GB or more
	When using more than one live window: 4 GB
	When using a 9M Fisheye network camera: 4 GB or more (2 GB×2)
	When using 7-series cameras (3840x2160 or more): 8 GB or more recommended (4 GB×2)
Graphics accelerator:	VRAM 512 MB or more (256 MB minimum), compatible with DirectX® 9.0c
	When using a Live window: NVIDIA NVS 510 or ATI FirePro 2460†10
	When using the visibility enhancement function: NVIDIA GeForce GTX 660 or higher†8 †9
	When using the visibility enhancement function (2048x1536 or more): NVIDIA GeForce GTX 770 or higher
	(The version GeForce 332.21 or later is recommended for the driver software.)
	When using 4K monitor: NVS510 (using a display port cable)†12
CD-ROM drive:	Necessary to install this software
Required hard disk space:	Approx. 3 GB†4
Monitor:	1280x800 pixels or more (1920x1080 pixels recommended), 24-bit True color or better (Full color recommended)
Network interface:	Must have a 100/1000 Mbps network port†5
Web browser:	Windows® Internet Explorer® 7.0, 8.0, 9.0, 10.0, 11.0†6

†1: This software is designed based on the default style or the font size of Microsoft® Windows Vista®, Microsoft® Windows® 7, Microsoft® Windows® 8, Microsoft® Windows® 8.1 and Microsoft® Windows® 10. When the display style or the font size of Microsoft® Windows® 7 or Microsoft® Windows Vista® is changed from the default, it may be possible that the layout of this software collapses.
However, when using a convertible laptop PC (PC that has functions of both laptop and tablet) of which the default font size is set to "middle", use after changing the font size to "small".
†2: When using Microsoft® Windows Vista®, Microsoft® Windows® 7, Microsoft® Windows® 8, Microsoft® Windows® 8.1 or Microsoft® Windows® 10, refer to "Readme.txt" for further information about the system requirements, precautions, etc.
†3: Operates in WOW64 (32-bit mode).
†4: It is required that Microsoft® SQL Server® 2012 Service Pack 1 (SP1) Express is installed on the PC to use this software.
It is necessary to prepare other disk space exclusively as storage for database and files downloaded from the recorder in addition to the required disk space for installation of this software.
†5: The network settings on the PC must meet those of the network environment where the PC is connected. Operation of this software on a PC with multiple network ports is not guaranteed.
†6: Supported versions of the web browser and restrictions will vary depending on the connected devices. Refer to the operating instructions of the devices for further information.
†7: The "Windows classic" style is not available as a theme used for the desktop customization. Select "Windows Vista" on Windows Vista and "Windows 7 Basic" on Windows 7 respectively.
†8: When using the visibility enhancement function, prepare and use a power supply unit compatible with the graphics card in use.
†9: When using the visibility enhancement function, do not use two or more graphics cards.
†10: When not using the Live window or the visibility enhancement function, use the PC onboard graphics.
†11: When using 7-series cameras, using Microsoft® Windows® 8.1 Pro 64-bit or Microsoft® Windows® 10 Pro 64-bit is recommended.
†12: When using a display port cable, due to the nature of the cable, the monitor may not be recognized temporarily when the power of the monitor is turned on/off. Occurrence of this phenomenon can vary position of the operation window and the live window.

Important:
- This software must be installed by the administrator. Otherwise, any problems will not be covered by the warranty.
- This software uses Microsoft® SQL Server® 2012 Service Pack 1 (SP1) Express as the database. If any other database is installed, the database files may be damaged and this software may not work correctly.
- Operation of this software on remote desktop is not guaranteed.
- While running this software, do not log out of the PC nor shut down the PC. Otherwise, operation of this software may become unstable.
- Do not use other applications, especially heavy load types, while this software is running. Otherwise, the CPU overload and the shortage of resources will cause malfunction and insufficient performance.
- When no sound card is installed, the buzzer will not sound at an alarm/error occurrence. The audio transmission/reception function is also unavailable.
- Use of 2-byte characters for a user name causes installation failure. Create a user name with 1-byte alphanumeric characters and perform installation.
- This software is not compatible with Windows XP mode for Microsoft® Windows® 7.
- When the OS is updated from Windows 7, Windows 8, or Windows 8.1 to Windows 10 with this software installed, the program of this software will not run normally.

Recommended camera settings when monitoring MPEG-4 or H.264 images

Set the "Max bit rate (per 1 client)" setting of the camera as below according to the PC in use.
When the set values for "Max bit rate (per 1 client)" is larger than the value below, this software may not work correctly. In this case, terminate this software forcibly, and then set an appropriate bit rate.

■ When monitoring MPEG-4 images (VGA)

CPU	Recommended bit rate
Intel® Core™ i5-2400	2048 kbps (30 fps)

* "Normal" shall be selected for the image quality of the camera.

■ **When monitoring H.264 images (VGA)**

CPU	Recommended bit rate
Intel® Core™ i5-2400	1536 kbps (30 fps)

■ **When monitoring H.264 images (1920×1080, displaying images on a 1-screen or 4-screen)**

CPU	Recommended bit rate
Intel® Core™ i5-2400	4096 kbps (30 fps)

■ **When adding the license for WV-ASE202 and displaying images on a 64-screen (QVGA)**

CPU	Recommended bit rate
Intel® Core™ i7-2600	1024 kbps (30 fps)

■ **When using H.264 images (2992×2992)**

CPU	Recommended bit rate
Intel® Core™ i7-4770	14336 kbps (15 fps)

■ **When using H.264 images (4000x3000/3840x2160)**

CPU	Recommended bit rate
Intel® Core™ i7-4790	14336 kbps (15 fps/30 fps)*

* When "4K" (☞ page 27) is selected for "PC diagnosis (4K camera)".

Trademarks and registered trademarks

- Microsoft, Windows, Windows Vista, Internet Explorer and DirectX are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Intel and Intel Core are trademarks or registered trademarks of Intel Corporation in the United States and other countries.
- Adobe, Adobe logos, and Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.
- All other trademarks identified herein are the property of their respective owners.

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.
Microsoft® Windows® 8.1 Pro (32-bit) and Microsoft® Windows® 8.1 Pro (64-bit) are described as Windows 8.1.
Microsoft® Windows® 10 Pro (32-bit) and Microsoft® Windows® 10 Pro (64-bit) are described as Windows 10.

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.

Local user
Indicates a user registered locally.

LDAP user
Indicates users registered to ASM200 after searching users managed by the Active Directory.

LDAP group
Indicates users registered to ASM200 after searching groups which contains users managed by the Active Directory.

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 (2992×2992).

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 model in use is compatible with this function. 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, people search and age/gender report will be executed on this window.

Visibility enhancement
This function removes snowflakes or rain drops 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.

Operation flow

To run the operation software, do the following in advance.

1 Installation of this software

↓

2 Startup the setup software

↓

3 Obtainment of license ("Registration Key") (☞ Activation Key Card)

↓

4 Registration of the license ("Registration Key")

↓

5 Settings relating to the system (☞ page 23)

Settings relating to the device management (☞ page 38)

Settings relating to the user management (☞ page 75)

Settings relating to the cameras (☞ page 86)

Settings relating to the window (☞ page 95)

Settings relating to the face search (☞ page 100)

Settings relating to the event action (☞ page 108)

Settings relating to the communication (☞ page 111)

Settings relating to the controller (☞ page 113)

Settings relating to the maintenance (☞ page 122)

↓

6 Settings relating to the license registration (☞ page 141)

↓

7 Setup software ended.

↓

8 Exceptional settings for the firewall

↓

Start operation

1 Install this software. Refer to the "Installation" section (☞ page 16) for further information.

2 Start the setup software. Refer to the "Start/exit the setup software" section (☞ page 20) for further information.

3 Obtain the "Registration Key" by following the instructions on the provided Activation Key Card.

4 Register the "Registration Key" of this software. Refer to steps 2 - 5 of the "Start/exit the setup software" section (☞ page 20) for further information.

Important:

- Be sure to perform the registration procedure on the PC in use. To use the demo edition (available for 90 days), it is required to register the "Registration Key" of the demo edition. Refer to the Readme.txt on the provided CD-ROM for further information.

5 Configure the settings required to run this software.

Note:

- When a message window is displayed by clicking the button on the window, refer to the "Displayed messages and solutions" section (☞ page 150) and follow the instructions.

6 If necessary, register the "Registration Key" for the Extension Software WV-ASE201 (option).

7 Exit from the setup software.
Refer to the "Start/exit the setup software" section (☞ page 20) for further information.

8 When using the download function or the Panasonic alarm protocol function (alarm notification, event notification), configure the exceptional settings of Windows Firewall. Refer to the "Exceptional settings of Windows Firewall" section (☞ page 143) for further information.

Close the setup software and start operation using the operation software.

Installation/uninstallation

Installation

Important:

- Before installing this software, make sure that no other Panasonic disk recorder management software such as WV-AS65, WV-ASM10 or WV-ASM100/ASM100L is installed on the PC.
  When the other Panasonic disk recorder management software and this software are on the same PC, operations of this software will not be covered by the warranty.
- When reinstallation is necessary, uninstall the existing software before starting the reinstallation. An overwrite installation may cause unstable operations. When this software is uninstalled, the setup data of this software will be deleted. When the setup data is necessary, save the setup data before uninstalling this software.

Step 1

Insert the provided CD-ROM into the CD-ROM drive on the PC.

Step 2

Double-click "SQLServerSetup.exe" in the folder "1 SQLServer".
The installer of "Microsoft® SQL Server® 2012 Service Pack 1 (SP1) Express" will be launched.
Install the software by following the instructions displayed on the monitor.

Step 3

Double-click "setup.exe" in the folder "2 Disk Recorder Management Software".
The installer of "Disk Recorder Management Software" will be launched.
Install the software by following the instructions displayed on the monitor.
When installed with the ALL option, the executable files, etc. will be copied on a newly created folder "C:\Program Files\Panasonic\ASM200".

Caution:

- When Microsoft®.NET Framework 4 is not installed on the PC in use, the installer of Microsoft®.NET Framework 4 will automatically be launched. Install the software by following the instructions displayed on the monitor. When the installation is completed, the PC will automatically be rebooted. After the PC is rebooted, the installer of "Disk Recorder Management Software" will be launched.

Step 4

Configure the exceptional settings of Windows Firewall.
Refer to the "Exceptional settings of Windows Firewall" section (☞ page 143) for further information.

Step 5

Reboot the PC.
When completing steps 1 - 5, reboot the PC to complete the installation.

Important:

- Before starting operation using the operation software, configure the settings required to operate the operation software, such as user registration, device registration, using the setup software.

Uninstallation

Important:

- When this software is uninstalled, the setup data of this software will be deleted. When the setup data is necessary, save the setup data before uninstalling this software. Refer to the "Save the setup data as a backup" section (☞ page 134) for how to save the setup data.
- The data downloaded from the recorder will not be deleted even when this software is uninstalled.
- Microsoft® SQL Server® 2012 Service Pack 1 (SP1) Express will not be deleted even when this software is uninstalled. Microsoft® .NET Framework 4 will also not be deleted when this software is uninstalled. When it is necessary to uninstall them after uninstalling this software, uninstall them in the following order.
- If a message window is displayed to ask you to exit other applications when uninstalling the software, click the [Cancel] button to cancel the uninstallation. Uninstall the software again after stopping the respective services. Refer to the manuals of the operating system in use for how to stop the services.
- If using timeline, before uninstalling this software from the master PC, disconnect the PC from the network so that the PC will not be accessed from slave PCs. If uninstalling is performed with being accessed from the slave PCs, the database deletion may be failed.
  If this happened, reinstall the software and try uninstallation again.

Step 1

Open "Uninstall a program" or "Programs and Features" in "Control Panel".

Step 2

Select "WV-ASM200 Series" 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 software by following the instructions displayed on the monitor.

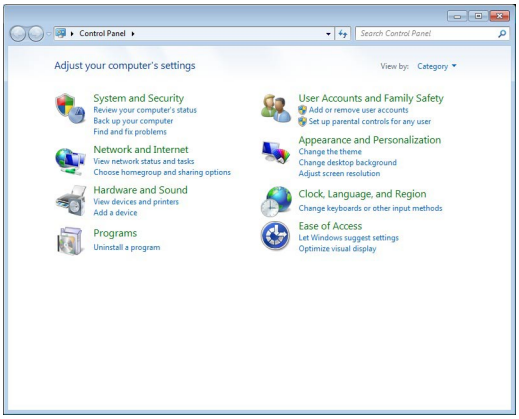
Uninstall SQL Server 2005 Express

Important:

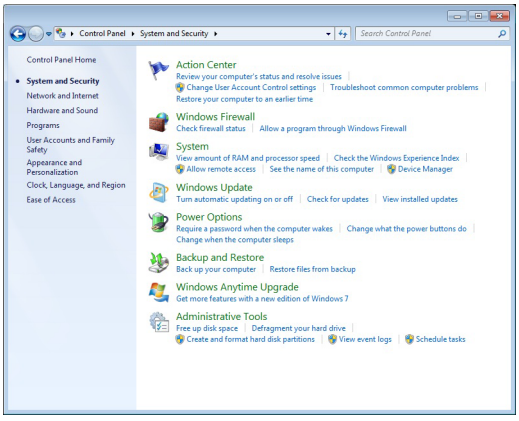
- When using an OS of Windows Vista or Windows 7, the above message may be displayed when the version of this software is upgraded. If the message is displayed, follow the procedure below to uninstall Microsoft® SQL Server® 2005 Express Edition SP4. After that, install this software after installing "Microsoft® SQL Server® 2012 Service Pack 1 (SP1) Express" referring to Step 2 of "Installation" (☞ page 16).

Step 1

Open "System and Security" in "Control Panel".



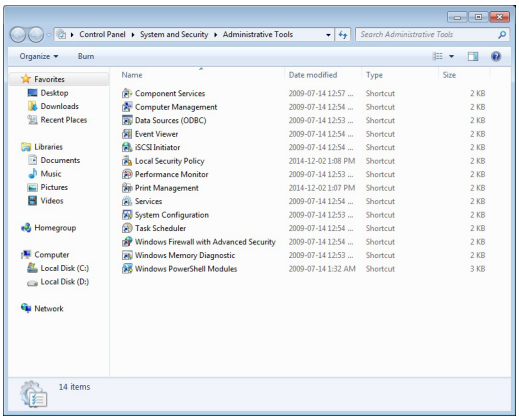
→ The "System and Security" window will be displayed.



Step 2

Click [Administrative Tools].

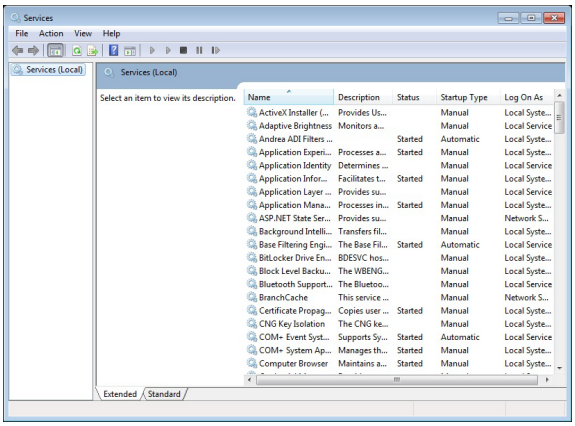
→ The "Administrative Tools" window will be displayed.



Step 3

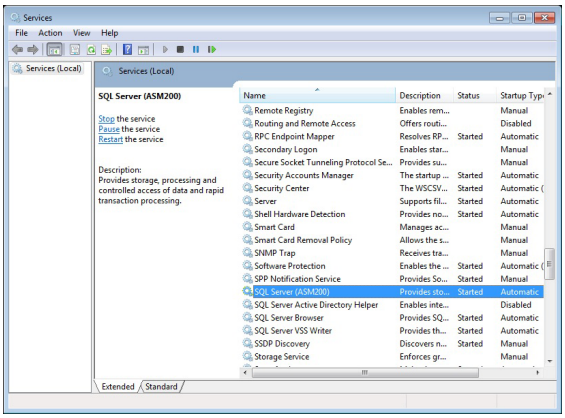
Double-click [Services].

→ The "Services" list window will be displayed.



Step 4

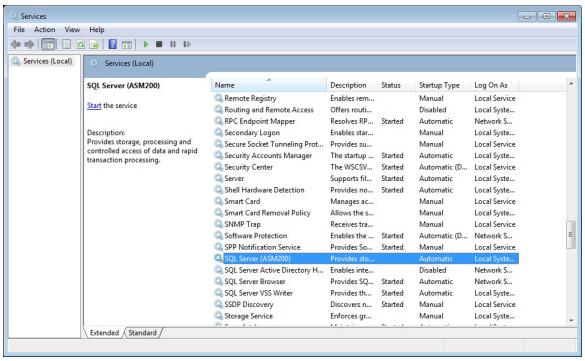
Click [SQL Server (ASM200)] in the service list.



Step 5

Click [Stop] of the "Stop the service"or select [Stop] from the right-click menu.

→ The "SQL Server (ASM200)" service will be stopped.



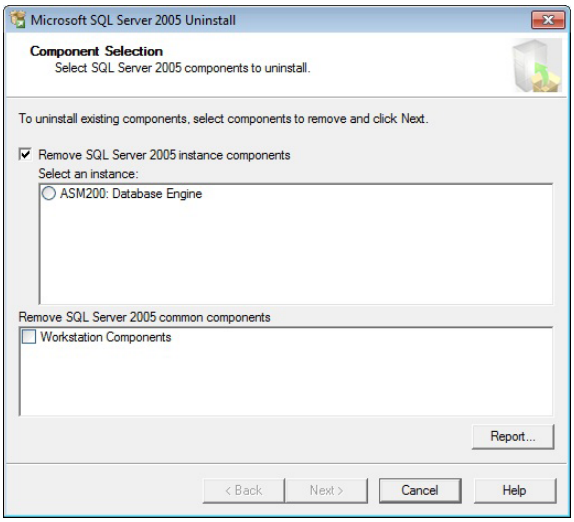
Step 6

Open "Uninstall a program" or "Programs and Features" in "Control Panel".

Step 7

Select "Microsoft SQL Server 2005" from the presently installed programs and click the [Uninstall] button.

→ The uninstall program will be launched and the wizard will be displayed.



Step 8

Check the "ASM200: Database Engine" and "Workstation Components", and uninstall them following the instructions in the window.

Step 9

Also, uninstall "Microsoft SQL Server Native Client".

Step 10

At the end, uninstall "Microsoft SQL Server VSS Writer" and "Microsoft SQL Server Setup Support Files(English)".

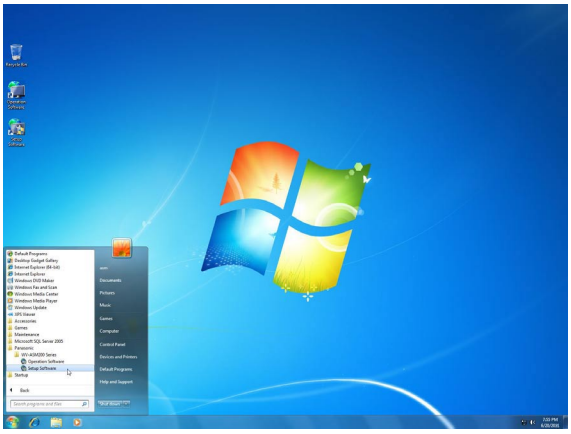
Start/exit the setup software

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.
- The setup software can be started up only by a user who is registered as an administrator.

Step 1

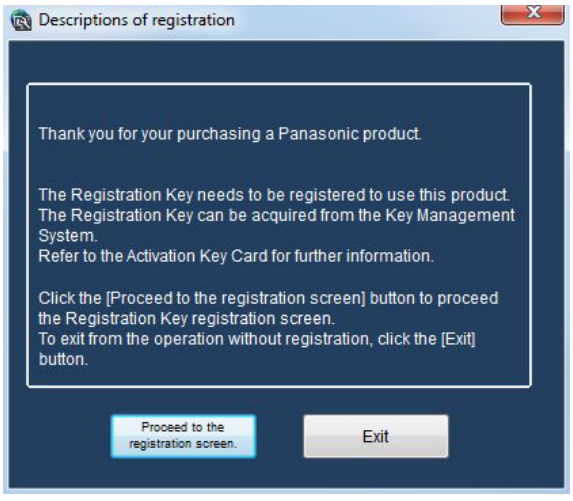
Select "Setup Software" from "start" menu ("start" - "All Programs" - "Panasonic" - "WV-ASM200 Series" - "Setup Software") or double-click the "Setup Software" icon on the desktop to launch the setup software.



→ The explanation window for registration will be displayed.

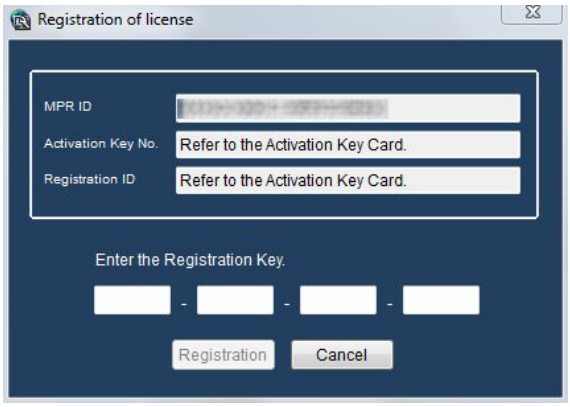
Step 2

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.



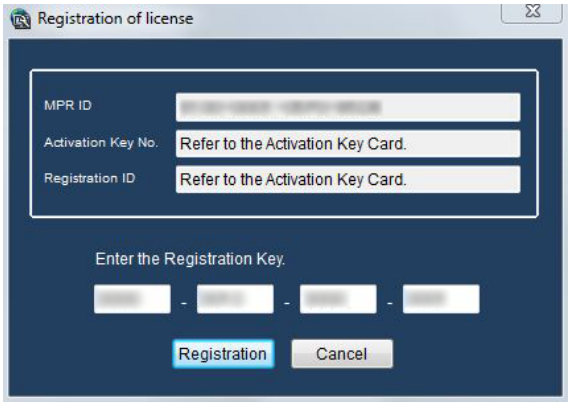
Important:

- 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.

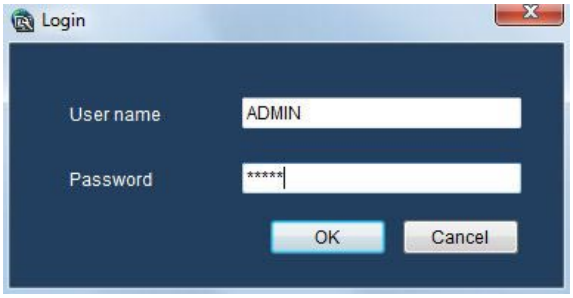
Step 5

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.



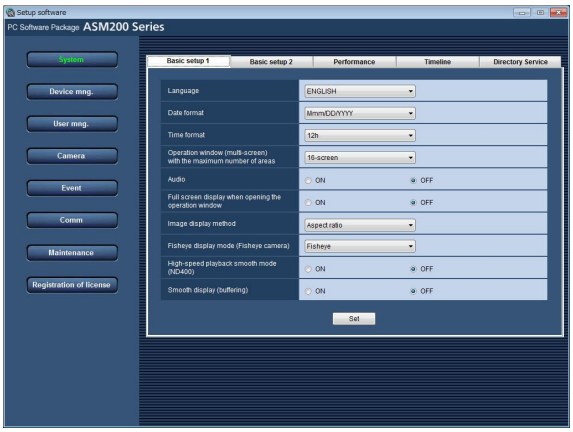
Important:

- 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 "Settings relating to the administrator [Administrator setup]" section (☞ page 76) for further information.

Step 7

Click the [OK] button.

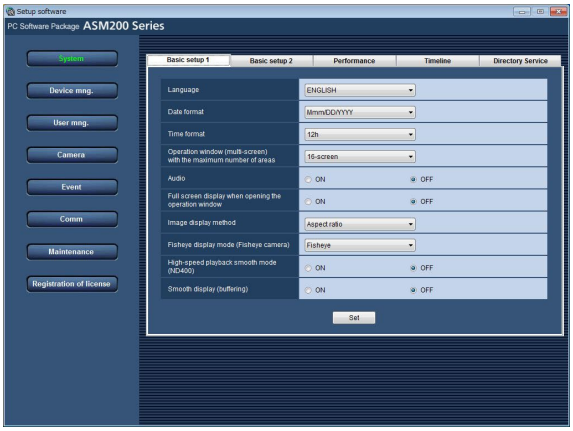
→ The setup window will be displayed.



Step 8

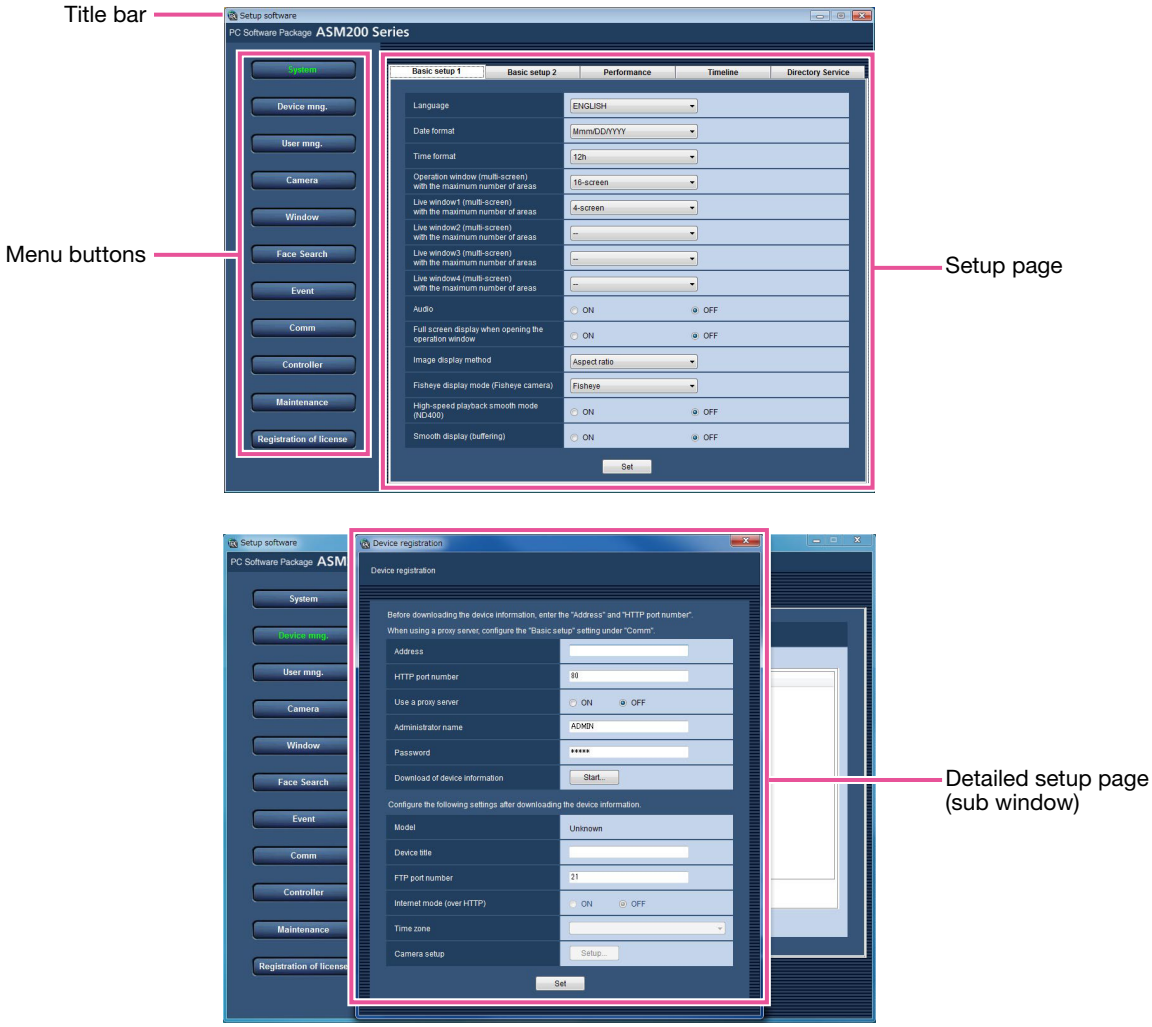
Click the [×] button at the top right of the setup window to exit the setup software.

→ The setup software will be closed.



Setup window

When the setup software starts, the setup window will be displayed.



■ Title bar

The title of the setup software will be displayed.

■ Menu buttons

When the menu button is clicked, the respective setup page will be displayed.

■ Setup page

The setup page respective to the clicked menu button will be displayed.
When multiple tabs are displayed in the setup page, click the desired tab to display the respective tab page.

■ Detailed setup page (sub window)

When the button on the setup page that leads to the detailed settings is clicked, the detailed setup page will be displayed in the newly opened window (sub window).

Important:

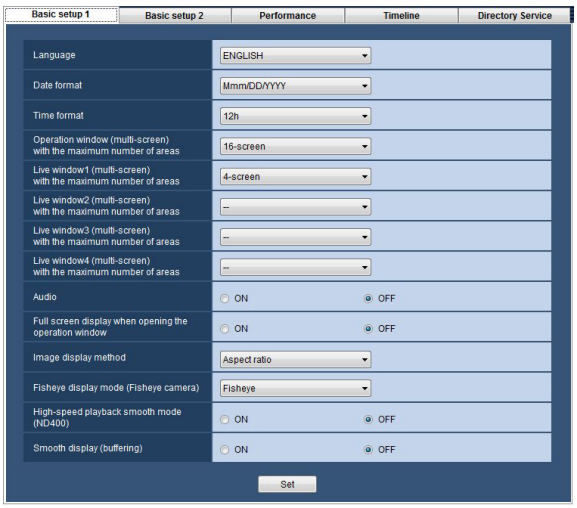
- To save and apply the edited settings on the setup page, it is necessary to click the [Set] button.
  When the [Set] button is not clicked, the edited settings will not be saved and applied.
- To save and apply the edited settings on the detailed setup page, it is necessary to click the [Set] button. When the sub window is closed without clicking the [Set] button, the edited settings will not be saved and applied.
- When the edited setting is invalid, the setup item for which the invalid setting is entered/selected will be displayed in red. When there is any setup item displayed in red, correct the invalid setting.
- Some setup items will be displayed after purchasing the Extension Software WV-ASE201, WV-ASE202, WV-ASE204, WV-ASE205, WV-ASE231 and adding the license.

Settings relating to the system

Operating language, date format, time format, maximum number of areas when displaying on a multi-screen, audio, automatic full screen of the operation window, image display method, etc. can be configured.

Select the operating language, date format, time format, etc. [Basic setup 1]

Click the [System] button, and then click the [Basic setup 1] tab to display the "Basic setup 1" page.



■ Language

Select the operating language.
JAPANESE, ENGLISH, FRANÇIS, ESPAÑOL, DEUTSCH, ITALIANO, RUSSIAN, CHINESE, THAI
Default: ENGLISH

Important:

- The language setting will not be applied even when the [Set] button is clicked.
  To apply the edited language setting, restart this software.

■ Date format

Select a date format to be displayed from the following.
Example: Apr/01/2011
YYYY/MM/DD: 2011/04/01
MM/DD/YYYY: 04/01/2011
Mmm/DD/YYYY: Apr/01/2011
DD/MM/YYYY: 01/04/2011
DD/Mmm/YYYY: 01/Apr/2011
Default: Mmm/DD/YYYY

Note:

- The date format will be applied to the following to display time and date.
  - Status bar
  - Information display area
  - Alarm notification message window
  - Event notification message window
  - (Each) Log list

  Refer to WV-ASM200 Operating Instructions (PDF) for further information about them.

■ Time format

Select a time format to be displayed from the following.
Example: 3 o'clock in the afternoon
12 h: 3:00:00 PM
24 h: 3:00:00
Default: 12h

Note:

- The time format will be applied to the following to display time and date.
  - Status bar
  - Information display area
  - Alarm notification message window
  - Error notification window
  - (Each) Log list

  Refer to WV-ASM200 Operating Instructions (PDF) for further information about them.

■ Operation window (multi-screen) with the maximum number of areas

Select a multi-screen pattern of the operation window from the following.
1-screen/ 3-screen/ 4-screen/ 6-screen/ 7-screen/ 9-screen/ 10-screen/ 13-screen/ 16-screen
Default: 16-screen

After the license for the Extension Software WV-ASE202 is added, select a setting value from the following.
--/ 1-screen/ 3-screen/ 4-screen/ 6-screen/ 7-screen/ 9-screen/ 10-screen/ 13-screen/ 16-screen/ 25-screen/ 36-screen/ 49-screen/ 64-screen

■ Live window (multi-screen) with the maximum number of areas (Available after the license for the WV-ASE201 is added)

Select a multi-screen pattern of the live window from the following.
--/ 1-screen/ 3-screen/ 4-screen/ 6-screen/ 7-screen/ 9-screen/ 10-screen/ 13-screen/ 16-screen/
Default: 4-screen

Note:
- When not using the live window, select "--".

■ Live window1 (multi-screen) with the maximum number of areas (Available after the licenses for the WV-ASE201 and WV-ASE202 are added)

Select a maximum number of areas (multi-screen pattern) of Live window 1 from the following.
1-screen/ 3-screen/ 4-screen/ 6-screen/ 7-screen/ 9-screen/ 10-screen/ 13-screen/ 16-screen/ 25-screen/ 36-screen/ 49-screen/ 64-screen
Default: 4-screen

■ Live window2 (Available after the licenses for the WV-ASE201 and WV-ASE202 are added)

Select a maximum number of areas (multi-screen pattern) of Live window 2 from the following.
--/ 1-screen/ 3-screen/ 4-screen/ 6-screen/ 7-screen/ 9-screen/10-screen/ 13-screen/ 16-screen
Default: --

■ Live window3 (Available after the licenses for the WV-ASE201 and WV-ASE202 are added)

Select a maximum number of areas (multi-screen pattern) of Live window 3 from the following.
--/ 1-screen/ 3-screen/ 4-screen/ 6-screen/ 7-screen/ 9-screen/10-screen/ 13-screen/ 16-screen/ 25-screen/ 36-screen/ 49-screen/ 64-screen
Default: --

■ Live window4 (Available after the licenses for the WV-ASE201 and WV-ASE202 are added)

Select a maximum number of areas (multi-screen pattern) of Live window 4 from the following.
--/ 1-screen/ 3-screen/ 4-screen/ 6-screen/ 7-screen/ 9-screen/ 10-screen/ 13-screen/ 16-screen/ 25-screen/ 36-screen/ 49-screen/ 64-screen
Default: --

■ Audio

Determine whether to use or not use the audio reception/transmission function.
ON: Use the audio reception/transmission function.
OFF: Not use the audio reception/transmission function.
Default: OFF

■ Full screen display when opening the operation window

Select whether or not to automatically provide full screen display of the operation window immediately after logging in.
This item is enabled when a group is set as a default screen.
ON: Full screen display enabled
OFF: Full screen display disabled
Default: OFF

■ Image display method

Select how to display the image.
Aspect ratio: The aspect ratio of images will be maintained.
Scaling: The displayed images will be enlarged/reduced in the whole of the image area.
Pixel by Pixel: The images will be displayed with the original size without enlargement/reduction.
Aspect ratio (type 2): The aspect ratio of images will be maintained. This is the function improved version that improved the image display area assignment method. Display of images with a larger size is available, although the CPU load will increase.
Default: Aspect ratio (type2)

Note:

- When receiving images from ASR500, "Aspect ratio" will automatically be applied to display Images in the image display area even if selecting "Scaling" or "Pixel by Pixel".

■ Fisheye display mode (Fisheye camera)

Select the mode to display the images from Fisheye cameras whose image capture mode is "Fisheye".

Fisheye: Displays the images in the image capture mode "Fisheye".

Single PTZ: Calibrates the images in the image capture mode "Fisheye" to display in the single PTZ mode.

Quad PTZ: Calibrates the images in the image capture mode "Fisheye" to display in the quad PTZ mode.

Default: Fisheye

Note:

- Depending on the live window in use, the setting selected for "Fisheye display mode (Fisheye camera)" may not be applied and the images may be displayed in the image capture mode "Fisheye". The selected setting can be applied on the following windows.
  After the options for the WV-ASE201 are added: Operation window/Live window
  After the options for the WV-ASE201 and WV-ASE202 are added: Operation window/Live window 1
- Depending on the screen pattern in use, the setting selected for "Fisheye display mode (Fisheye camera)" may not be applied and the images may be displayed in the image capture mode "Fisheye". The selected setting can be applied on 1-/4-screen, on left area of 3A-screen, on right area of 3B-screen, and only on large areas of 7-/10-/13-screen.
- When the calibration mode is changed in the "Fisheye display menu" on the operation window, the changed setting is applied to the images subsequently displayed.
- Depending on the environment of the network devices and the performance of the PC in use, the images may be displayed for a moment in the image capture mode "Fisheye" even when "Single PTZ" or "Quad PTZ" is selected.

■ High-speed playback smooth mode (ND400)

Select whether or not to use the high-speed playback smooth mode.

ON: Use

OFF: Not use

Default: OFF

■ Smooth display (buffering)

Select whether or not to use the buffer for images.

ON: Images will temporarily be stored in the PC for smooth display.

OFF: Images will not be stored in the PC and be displayed in real time.

Default: OFF

Note:

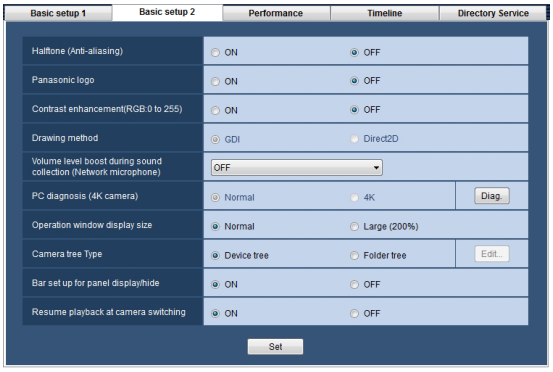
- The setting will be validated only when using the operation window in 1-/4-/9-/16-screen.
- When "ON" is selected, image display delay may occur.

■ [Set] button

The edited settings will be saved and applied.

Settings relating to the system other than "Basic setup 1" [Basic setup 2]

Click the [System] button, and then click the [Basic setup 2] tab to display the "Basic setup 2" page.



■ Halftone (Anti-aliasing)

Determine whether or not to reduce aliasing (jagged appearance of diagonal lines or curves) when displaying images.
ON: Display images while reducing aliasing
Images may be displayed with delay or not be displayed depending on the operating environment.
OFF: Display images without any particular processing
Default: OFF

Note:
- The setting will be validated only when using the operation window in 1-/4-/9-/16-screen.
- When "ON" is selected, CPU load may become higher.
- When "ON" is selected, outlines of images may sometimes become vague.

■ Panasonic logo

Determine whether or not to display the Panasonic logo for the application title when using the operation software.
ON: Display the Panasonic logo
OFF: Not display the Panasonic logo
Default: OFF

■ Contrast enhancement(RGB:0 to 255)

Determine whether or not to enhance the contrast of images to display.
ON: Displays images by expanding RGB signal range from "16-235" to "0-255".
OFF: Displays images with RGB signal range of "16-235".
Default: OFF

Note:
- The setting will be validated only when "H.264" is set for the image format.
- Depending on a subject to display, blown-out highlights may appear in high bright areas.

■ Drawing method

Select the image drawing method.
GDI: A common method for Windows OS.
Direct2D: Reduces non-smooth movement and provides fast drawing.
Default: GDI

Important:
- "Direct2D" shall be used on a PC with the latest graphic driver.
- When using "Direct2D", set "ON" for "Smooth display (buffering)".
- The "Direct2D" is applicable up to 16-screen display of the operation monitor. Use "GDI" for 25-screen or more and for the live window.

Note:
- This setting is not available for Windows Vista or Windows 7. GDI is the only option.

■ Volume level boost during sound collection (Network microphone)

Select the volume compensation level for the network microphone when the sound collection position is enabled.
OFF: Disables compensation.
Low: Slightly boosts the volume.
High: Greatly boosts the volume.
Default: OFF

■ PC diagnosis (4K camera)

Checks if the PC in use supports display of 4K image distributed from the camera or not and sets up.
When the [Diag.] button is clicked and the diagnosis ends, a pop-up window will appear and display diagnosis result.
The setting can be changed only when the following condition is met:

- The OS of the PC in use is Microsoft® Windows® 8.1.
- The OS of the PC in use is 64-bit.
- The memory of the PC in use is more than 8 GB.
- The PC in use supports Hardware decoder (QSV).

Normal: Supports display of images with up to 3K (2992x2992).
4K: Supports display of images with up to 4K (4000x3000).
Default: Normal

Note:

- This diagnosis function checks only availability of the above functions on the PC in use. Even when the diagnosis conditions are fulfilled, it does not mean that display ability of 4K images is guaranteed.
- When displaying images whose image capture size is larger than 3K (2992x2992) in the "Normal" mode, image quality may become lower than the actual image quality since the image capture size is reduced.
- When a pop-up window saying "Hardware decoder (QSV) is not available." is displayed, check the following:
  - The CPU is Core i7 4790 or faster.
  - The version of Intel HD Graphics is 15.36.21.64.4222 or later.
    The latest version of the driver can be downloaded from the following:
    URL: https://downloadcenter.intel.com/
    → Download a driver corresponding to the CPU in use and install it on the PC.
  - "Graphic function built-in the PC (built-in video)" is enabled on the BIOS setting.
    → The name of the BIOS setting differs depending on the PC in use.

■ Operation window display size

Set the size of the operation window.
Normal: Displays the operation window and characters in the standard size.
Large (200%): Displays the operation window and characters twice the size of "Normal" both horizontally and vertically.
Default: Normal

Note:

- The setting of "Large (200%)" is suited for the monitor resolution of 4K (3840x2160). When using a resolution less than 4K, select "Normal". Depending on the settings of Windows, a breakage of the screen layout may occur either in the "Normal" mode and the "Large (200%)" mode. Check if the settings of Windows are set as follows.
  - When using Microsoft® Windows® 7
    1. Click [Control Panel] - [Appearance and Personalization] - [Display] in order.
    2. Select "Smaller-100%" in the [Make it Easier to read what's on your screen] section.
    3. Click the [Apply] button.
  - When using Microsoft® Windows® 8
    1. Click [Control Panel] - [Appearance and Personalization] - [Display] in order.
    2. Select "Smaller-100%" in the [Change the size of all items] section.
    3. Click the [Apply] button.
  - When using Microsoft® Windows® 8.1
    1. Click [Control Panel] - [Appearance and Personalization] - [Display] in order.
    2. Check the check box of [Let me choose one scaling level for all may displays].
    3. Select "Smaller-100%" in the [Change the size of all items] section.
    4. Click the [Apply] button.
- This function is not applicable the followings: setup software, live window, map window (available when the licenses for WV-ASE201 is applied), face matching monitor (available when the licenses for WV-ASE231 is applied), standard format conversion window, the visibility enhancement control (available when the licenses for WV-ASE205 is applied), text information window (refer to WV-ASM200 Operating Instructions (PDF)), viewer software (refer to WV-ASM200 Operating Instructions (PDF)), and decoder control window (available when the licenses for WV-ASE204 is applied).
- This function is not applicable to the title bar on the top of the window, software name, minimize and maximize buttons, exit button, message windows, and other Windows-specific windows.
- When displaying with "Large (200%)", thickness of the borders of image selection frame border, screen parting border, AVMD/i-VMD information, face frame, sound collection position, cropping frame, drag & zoom frame and VMD search frame may be different if compared with borders displayed with "Normal".
- When displaying with "Large (200%)", some Windows desktop items may look different from the screen when displaying with "Normal". However, there is no difference in functions.

■ Camera tree Type

The following two tree display formats are available.
Device tree: Display the registered devices in tree format.
Folder tree: Display cameras in folder tree format.
Default: Device tree

Folders and cameras displayed in folder tree format can be edited on the "Folder editing" window that appears when the [Edit...] button is clicked. Refer to the "Edit the folder tree" section (☞ page 29) for further information.

■ Bar set up for panel display/hide

Determine whether to display or hide the panel bar on the operation window.
ON: Display the panel bar. The function panel and the operation panel on the operation window can be displayed/hidden using this panel bar.
OFF: Not display the panel bar.
Default: ON

■ Resume playback at camera switching

Determine whether to continue playback or not when the camera is switched to the other camera during displaying playback images recorded on the recorder on the operation window.
ON: Display playback images from a newly selected camera.
OFF: Display live images from a newly selected camera.
Default: ON

■ [Set] button

The edited settings will be saved and applied.

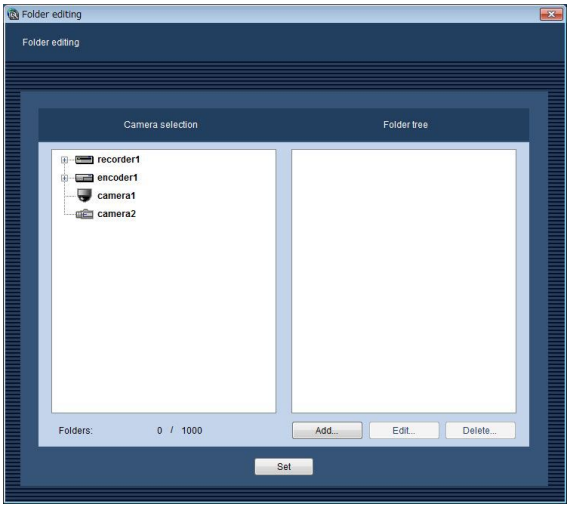
Edit the folder tree

Edit the folder tree displayed when "Folder tree" is selected for "Camera tree Type" (☞ page 28).

Register a folder

Step 1

Click the [Edit...] button of "Camera tree Type".
→ The "Folder editing" window will be displayed.



The details are as follows.

■ Camera selection

The registered devices will be displayed in list form. Select a camera to be displayed in the folder tree from here.

■ Folder tree

The folder tree currently being edited will be displayed.
Folder addition/deletion and device addition can be performed.

■ [Add...] button

Create a new folder.

■ [Edit...] button

Edit a folder name of an existing folder.

■ [Delete...] button

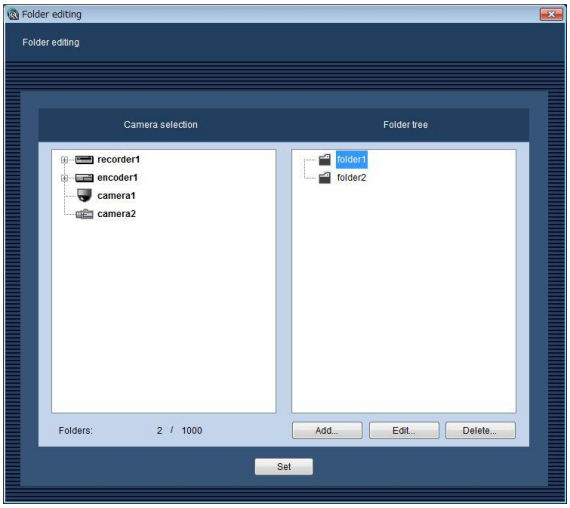
Delete an existing folder or an added camera.

■ [Set] button

Save the content edited in "Folder tree".

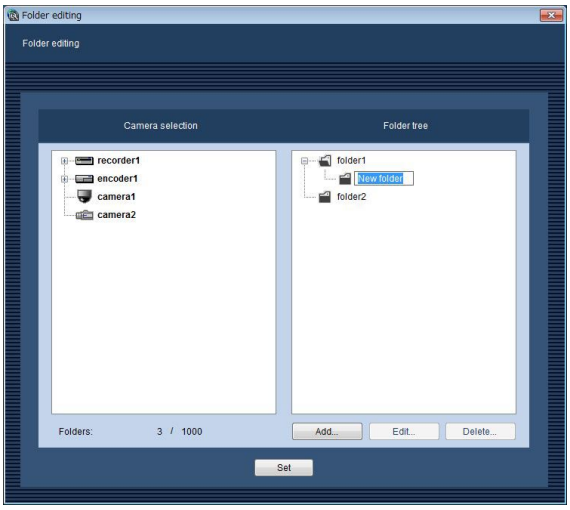
Step 2

In "Folder tree", click a position to where a folder is to be added.



Step 3

Click the [Add...] button.
→ When a new folder will be created, enter a folder name.



Note:

- A folder can also be added from the right-click menu displayed by a right-click in "Folder tree".

Step 4

Click the [Set] button.

→ The "Folder editing" window will close and the settings will be saved and applied.

Note:

- By clicking the [Set] button on the [Basic setup 2] tab page, display will change to the folder tree display.
- Enter up to 16 characters for the folder name. The following characters are unavailable.
  ! $ % ' < = > @ [\ ] ^ _ ` { | } ~
- Up to 1000 folders can be added.
- It is also possible to add a folder in a folder. Folder hierarchy of up to 10 levels can be created.
- The created folder can be moved by dragging and dropping anywhere in "Folder tree". It is also possible to move the folder into other folder. When a folder having the same name exists in the destination folder, a serial number such as (2), (3), ... will automatically be added.

Edit the registered folder name

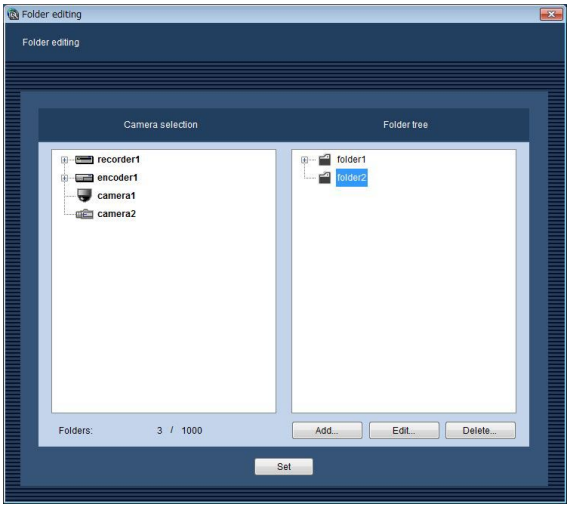
Step 1

Click the [Edit...] button of "Camera tree Type".

→ The "Folder editing" window will be displayed.

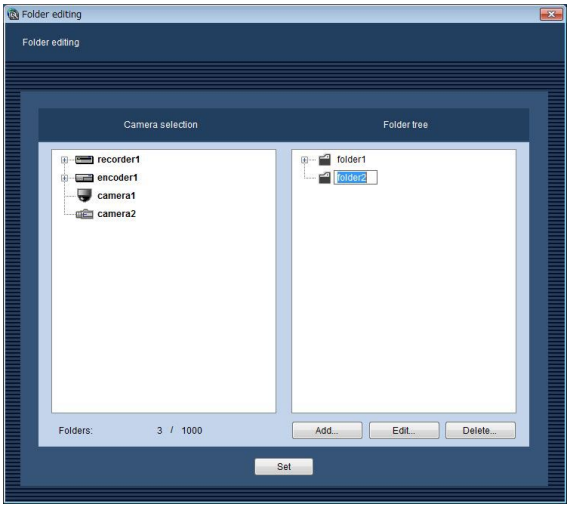
Step 2

In "Folder tree", click a folder whose name is to be edited.



Step 3

Click the [Edit...] button and edit the folder name.



Note:

- A folder name can also be edited from the right-click menu displayed by a right-click in "Folder tree".

Step 4

Click the [Set] button.

→ The "Folder editing" window will close and the settings will be saved and applied.

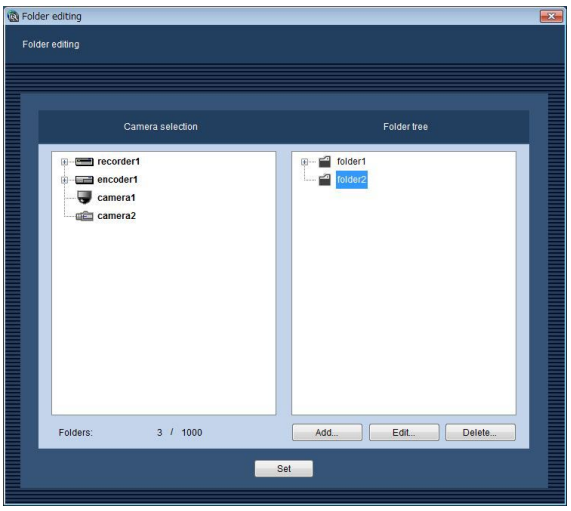
Delete the folder

Step 1

Click the [Edit...] button of "Camera tree Type".
→ The "Folder editing" window will be displayed.

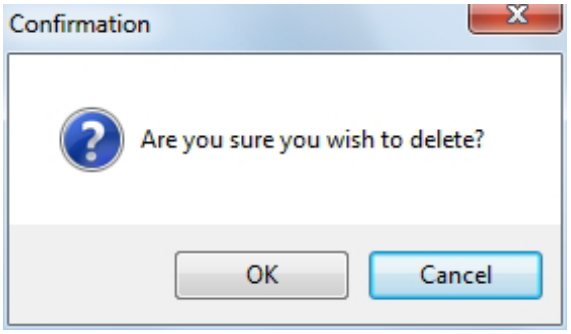
Step 2

In "Folder tree", click a folder to be deleted.



Step 3

Click the [Delete…] button.
→ The deletion confirmation window will be displayed.



Note:

- A folder can also be deleted from the right-click menu displayed by a right-click in "Folder tree".

Step 4

Click the [OK] button.
→ The folder will be deleted.

Step 5

Click the [Set] button.
→ The "Folder editing" window will close and the settings will be saved and applied.

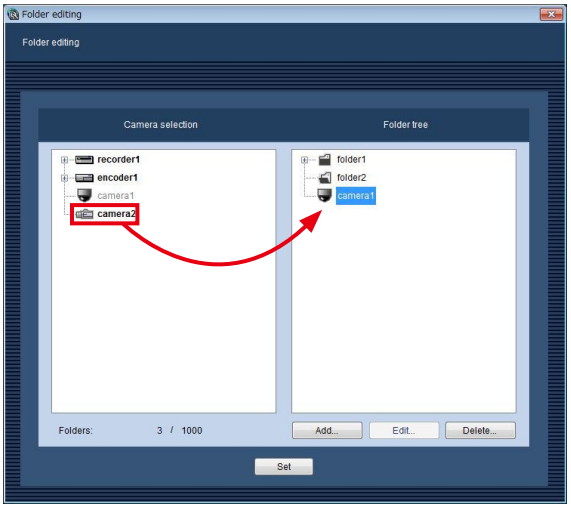
Add a camera into a folder

Step 1

Click the [Edit...] button of "Camera tree Type".
→ The "Folder editing" window will be displayed.

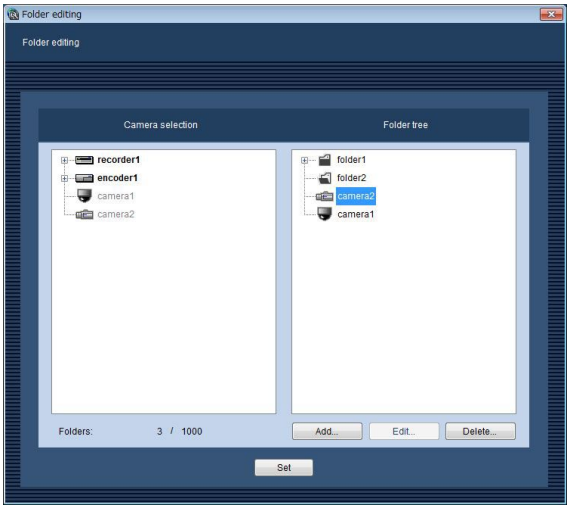
Step 2

Drag and drop a camera in "Camera selection" to be added into "Folder tree". Or double-click a camera in "Camera selection" to be added.

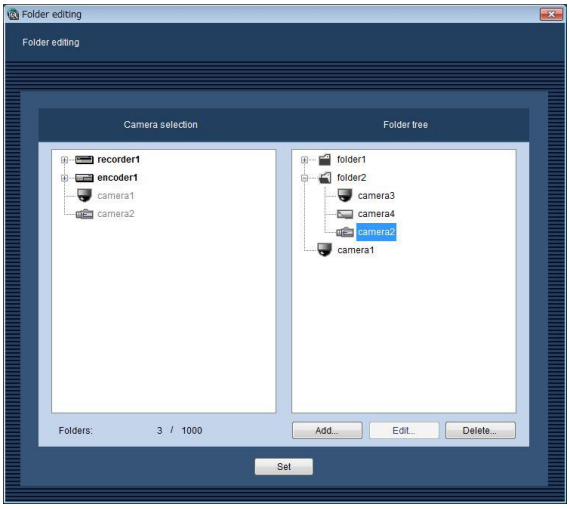


→ The camera will be added.

<When dropped on a camera>
The camera will be added to the camera on which it is dropped.



<When dropped on a folder>
The camera will be added to the end of the list in the folder on which it is dropped.



Step 3

Click the [Set] button.
→ The "Folder editing" window will close and the settings will be saved and applied.

Note:

- It is also possible to collectively add cameras in the recorder or in the encoder by dragging and dropping a recorder or an encoder.
- It is possible to register the same camera in different folders.
- Up to 32000 cameras can be registered in “Folder tree”.

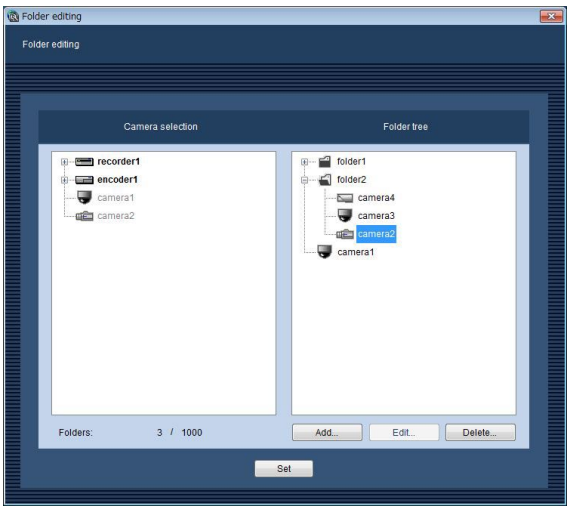
Delete a camera in a folder

Step 1

Click the [Edit...] button of "Camera tree Type".
→ The "Folder editing" window will be displayed.

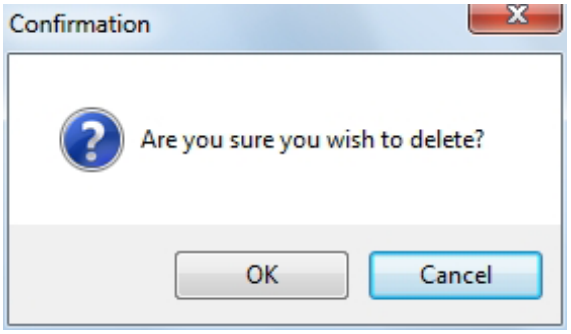
Step 2

Select a camera to be deleted in "Folder tree".



Step 3

Click the [Delete…] button.
→ The deletion confirmation window will be displayed.



Note:

- A camera can also be deleted from the right-click menu displayed by a right-click in "Folder tree".

Step 4

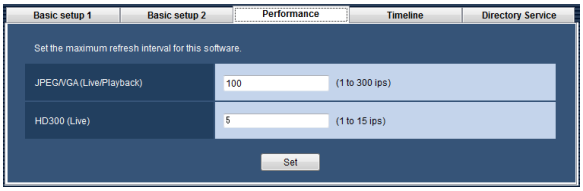
Click the [OK] button.
→ The camera will be deleted.

Step 5

Click the [Set] button.
→ The "Folder editing" window will close and the settings will be saved and applied.

Set the maximum refresh interval [Performance]

Click the [System] button, and then click the [Performance] tab to display the "Performance" page.
Enter a number of images to be refreshed per second.



Note:

- Change the value for "JPEG/VGA (Live/Playback)" according to your PC environment.
  Intel® Core™ i5: 240 ips
  Intel® Core™ i7: 300 ips
  (For reference) Intel® Core™ 2 Duo 2.66 GHz: 160 ips
- The maximum refresh interval per screen is calculated by dividing the maximum refresh interval by the number of screens of VGA conversion.
  Ex. 1) When displaying VGA (640×480) image while "60 ips" is set for "Maximum refresh interval", the calculated maximum refresh interval will be 60 ips when displaying in 1-screen, and 15 ips when displaying in 4-screen.
  Ex. 2) When displaying SXVGA (1280×960, 4VGA conversion) image while "120 ips" is set for "Maximum refresh interval", the calculated maximum refresh interval will be 30 ips when displaying in 1-screen, and 7.5 ips when displaying in 4-screen.
- In addition, the maximum refresh interval of "JPEG/VGA (Live/Playback)" will be x1/21, x1/19, x1/16, x1/10, x1/4, x2/3, or x4 of the set value, when the resolution is 9M (2992×2992), 8M (2816×2816), 5M (2560×1920), QXGA (2048×1536), SXVGA†1 (1280×960), SVGA (800×600), QVGA (320×240).
  †1: When "Partial" is selected for the scan mode of NP100x, the resolution will be 960x720.
- When displaying images directly from the cameras, the camera whose refresh interval (set for "Refresh interval (JPEG)" on the "Camera setup" window (☞ page 44)) is the smallest value among the cameras in use for displaying on a multi-screen will be applied as the maximum refresh interval per area.
- The actual refresh interval may become slower than the set refresh interval depending on the network environment, the settings of the camera and the set maximum refresh interval on the "Performance" page.
- The maximum refresh interval of MPEG-4 or H.264 images cannot be controlled with this software. Refer to the "Recommended camera settings when monitoring MPEG-4 or H.264 images" section (☞ page 11) for further information.
- When a program of the recorder changed the recording rate, images sometimes may not be refreshed exactly at the set refresh interval.
- Select the value of 15 ips or less for the live rate for an HD300 (ASM200xHD300 (Live))

■ JPEG/VGA (Live/Playback)

Enter a number among the following for the maximum refresh interval for the whole system when displaying JPEG images of VGA size (640x480) from the HD300.
1 ips - 300 ips
Default: 200 ips

Note:

- When receiving images from ASR500, images will be displayed at the image refresh rate of the camera or the recorder.

■ HD300 (Live)

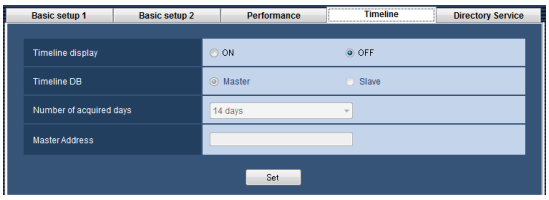
Enter a number among the following for the maximum refresh interval for the whole system when displaying live images from the HD300.
1 ips - 15 ips
Default: 5 ips

■ [Set] button

The configured settings will be saved.

Set timeline [Timeline]

Click the [System] button, and then click the [Timeline] tab to display the "Timeline" page.



Note:

- When the timeline setting is changed, it may become inoperable for several minutes due to the pause of the service.
- When setting the timeline, first synchronize the PC clock with the recorder. When the clocks are not synchronized, or when the PC clock has been changed, the timeline will not be displayed correctly. If this happened, initialize the timeline after synchronizing the PC clock with the recorder. Refer to the "Save/load/initialize the timeline data [Save/Load]" (☞ page 138) for how to initialize the timeline.

■ Timeline display

Select to determine whether or not to display timeline on the playback operation panel of the operation window.
ON: Display the timeline playback operation panel.
OFF: Display the playback operation panel.
Default: OFF

■ Timeline DB

Determine whether the PC in which this software is installed is to be used as the master PC that manages the timeline DB or not.
Master: Use as the master PC.
Slave: Use as the slave PC.
Default: Master

Note:

- When using a plurality of this software, set only a single one as "Master".
- When "SQL Server Browser" service is stopped, timeline data can not be obtained. When "SQL Server Browser" is stopped, click [Start] in the OS service window.
- The maximum number of slave PCs that can be connected simultaneously to the Master is limited to 16 PCs.

■ Number of acquired days

Set number of days to acquire recording information from the recorder.
Selection of number of days to acquire recording information will become available by setting "Master" for "Timeline DB".
3 days: Acquire recording information of the last 3 days.
7 days: Acquire recording information of the last 7 days.
14 days: Acquire recording information of the last 14 days.
30 days: Acquire recording information of the last 30 days.
90 days: Acquire recording information of the last 90 days.
Default: 14 days

Note:

- Depending on number of the registered recorder or number of the recording event, it may sometimes be impossible to acquire recording information due to the limitation of storage capacity.

■ Master Address

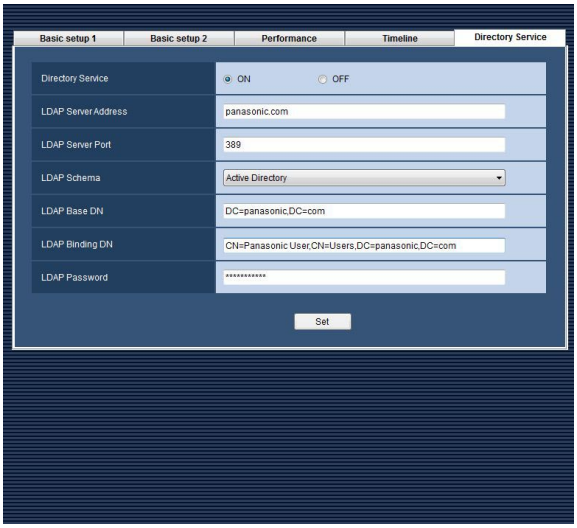
Set the master destination address. Enter the address using up to 255 alphanumeric characters including "." (dot) and "-" (hyphen). Setting of the master address will become available by setting "Slave" for "Timeline DB".

Note:

- It is impossible to connect the master address via WAN. Make connection via LAN.

Set up Directory Service [Directory Service]

User management can be performed associated with Windows Server 2012 Active Directory function. Click the [System] button, and then click the [Directory Service] tab to display the "Directory Service" page.



■ Directory Service

Select to determine whether to use the Directory Service.
ON: Use
OFF: Not use
Default: OFF

■ LDAP Server Address

Enter the address of Windows Server on which Active Directory is running (IP address or the host name in FQDN format) using 255 characters at maximum.

■ LDAP Server Port

Enter the port number for the Active Directory Service.
Default: 389

■ LDAP Schema

Select LDAP Schema. Currently only "Active Directory" can be selected.

■ LDAP Base DN

Enter the domain name of the Active Directory Server by LDAP DN (512 characters at maximum). Multiple LDAP relative distinguished names are listed in the comma delimited format.
Example: In the case of a fictitious domain "panasonic.com"
DC=panasonic,DC=com

■ LDAP Binding DN

Enter the user name to be connected to the Active Directory Server by LDAP DN (512 characters at maximum).
Example: In the case of "Panasonic User" that belongs to a users group registered in the fictitious domain "panasonic.com"
CN=Panasonic User,CN=Users,
DC=panasonic,DC=com

■ LDAP Password

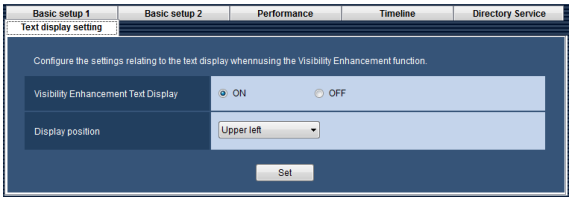
Enter the password of the user to be connected to the Active Directory Server. The entered password will be displayed as "*". Enter 1 - 128 characters for the password.

Note:

- Regarding Active Directory and LDAP, it is necessary to understand the functions of Windows Server 2012. Set up the Directory Service properly according to your environment.
- Microsoft® Windows® Server 2012 Standard, Microsoft® Windows® Server 2012 R2 Standard are supported.
- When accessing the Active Directory, "Windows Server 2012 CAL" is required.

Setting of text display [Text display setting]

This setting will be displayed when the license for the extension software (WV-ASE205) is added.
Click the [System] button, and then click the [Text display setting] tab to display the "Text display setting" page.



■ Visibility Enhancement Text Display

Select "ON" or "OFF" to determine whether to display the text indicating that the visibility enhancement is on.
ON: Display
OFF: Not display
Default: ON

Note:

- This "text" indicates "This image is enhanced." displayed in image.

■ Display position

Select a position of the text indicating that the visibility enhancement is on.
Upper left: The text will be displayed at the upper left of the image.
Upper middle: The text will be displayed at the upper middle of the image.
Upper right: The text will be displayed at the upper right of the image.
Lower left: The text will be displayed at the lower left of the image.
Lower middle: The text will be displayed at the lower middle of the image.
Lower right: The text will be displayed at the lower right of the image.
Default: Upper left

■ [Set] button

The configured settings will be saved.

Settings relating to the device management

Devices can be registered and information of the registered devices can be edited or deleted.

Register a recorder [Basic setup]

Step 1

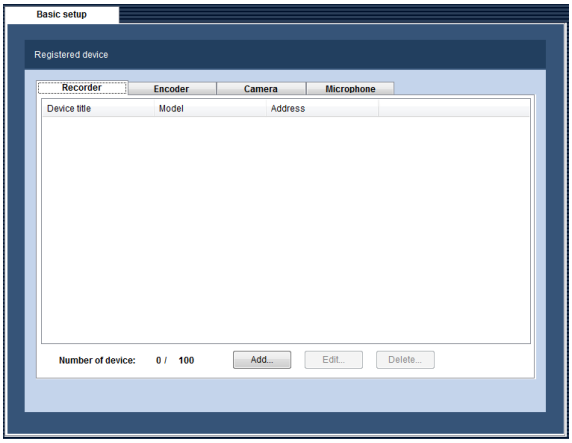
Click the [Device mng.] button.

→ The "Basic setup" page of "Device mng." will be displayed.

Step 2

Click the [Recorder] tab.

→ The "Registered device" window of the recorder will be displayed.



The following are descriptions about each item displayed on the "Basic setup" page.

■ Registered device

Titles, model numbers and addresses of the registered recorders will be displayed in list form.

■ Number of device

Number of the registered recorders will be displayed.

■ [Add...] button

The "Device registration" window will be displayed.

■ [Edit...] button

The "Device registration" window of the recorder selected from the list will be displayed.

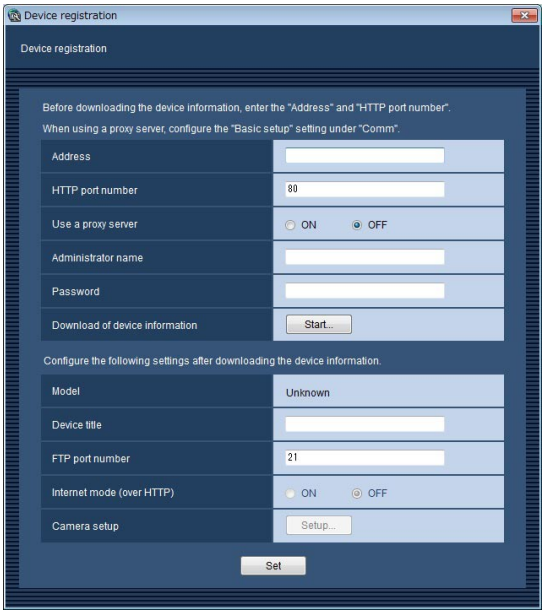
■ [Delete...] button

The recorder selected from the list will be deleted.

Step 3

Click the [Add...] button.

→ The "Device registration" window will be displayed.



Note:

- The [Add...] button will become unavailable when reached the maximum number of encoder registration.

The following are descriptions about each item displayed on the "Device registration" window.

■ Address

Enter the IP address of the recorder.
Enter the address using up to 255 alphanumeric characters including "." (dot) and "-" (hyphen).

■ HTTP port number

Enter a number from 1 to 65535 for the HTTP port number.
Default: 80

Note:

- The default HTTP port number set for ASR500 is "22609". When using without changing the default, change to "22609" from "80".

■ Use a proxy server

Determine whether to use a proxy server to connect the recorder or not.
ON: Use a proxy server
OFF: Not use a proxy server
Default: OFF

Important:
- When displaying images directly from cameras, live images will be received without using a proxy server.

Note:
- The proxy server address can be set on the [Basic setup] tab of the "Comm" page (☞ page 111).

■ Administrator name

Enter the administrator name registered in the recorder. Enter 4 - 14 alphanumeric characters for the administrator name.

Note:
- It is impossible to use the following administrator names: administrator, guest, operator, users, nogroup, shutdown, shadow, hdusers.
- After downloading the device information, when the device is recognized as the HD300, it becomes impossible to enter this item.
- If using the recording download function, even when "OFF" is selected for the authentication on the camera side, enter the administrator name same as the one registered to the recorder.

■ Password

Enter the administrator password registered in the recorder. The entered password will be displayed as "*". Enter 4 - 8 alphanumeric characters for the password.

Note:
- If using the recording download function, even when "OFF" is selected for the authentication on the camera side, enter the password same as the one registered to the recorder.
- The default password set for ASR500 is "admin256". When using without changing the default, change to "admin256" from "12345".

■ [Start...] button

Device information will be downloaded based on the settings of "Address", "HTTP port number" and "Use a proxy server".

■ Model

The model number contained in the downloaded recorder information will be displayed. "Unknown" will be displayed when recorder information is not downloaded yet.

■ Device title

Enter the recorder title. Enter up to 16 characters. The following characters are unavailable for the recorder title.
!$ % ' < = > @ [\ ] ^ _ ` { | } ~

■ FTP port number

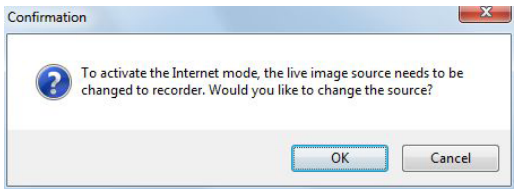
Enter a number from 1 to 65535 for the FTP port number.
Default: 21

Important:
- It is necessary to make the selected port number available when "Windows Firewall" is on. Refer to the "Exceptional settings of Windows Firewall" section (☞ page 143) for how to make the selected port number available.
- When using ASR500, it is impossible to specify the FTP port number.

■ Internet mode (over HTTP)

Select this item when receiving MPEG-4 or H.264 images via the Internet. It is possible to transmit MPEG-4 or H.264 images while maintaining the same setting of the broadband router as that when transmitting JPEG images.
ON: Receive MPEG-4 or H.264 images with audio using the HTTP port.
OFF: Receive MPEG-4 or H.264 images with audio using the UDP port.
Default: OFF

Important:
- It is possible to select this item when the recorder in use is the ND400 (Version 2.40 or later), the HD600 (Version 2.04 or later), the NV200 (Version 1.04 or later) or the NV300.
- When "ON" is selected for "Internet mode (over HTTP)", all the current image sources will be changed to the recorder.



Note:
- When using ASR500, MPEG-4 or H.264 images with audio will be received using the UDP port.

■ Time zone

Select the time zone of the place where the recorder is installed. Time zone can be selected only when the device in use is ASR500.
Default: Time zone set for the PC.

■ [Setup...] button

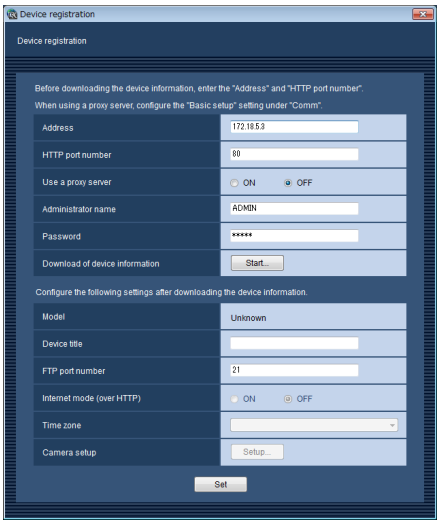
The "Camera setup" window will be displayed.
The [Setup...] button will be unavailable until recorder information is downloaded.

■ [Set] button

The edited settings will be saved and applied.

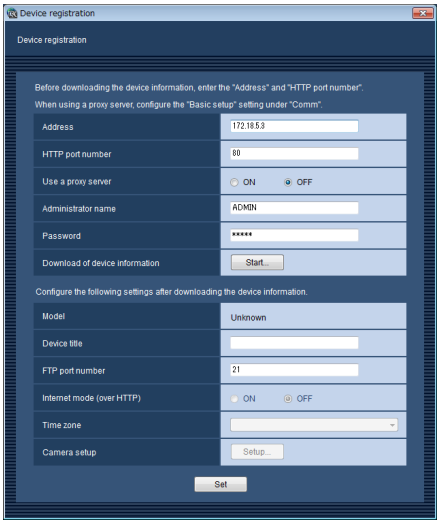
Step 4

Complete the settings of "Address", "HTTP port number", "Use a proxy server", "Administrator name" and "Password".



Step 5

Click the [Start...] button.

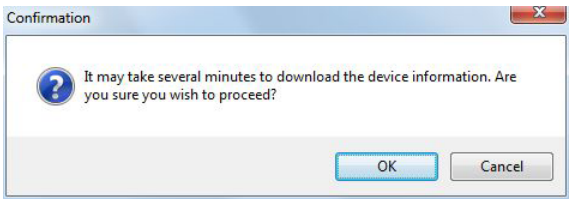


Important:

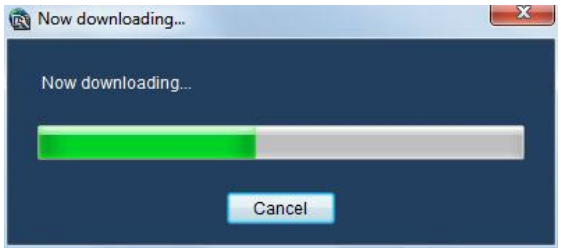
- Before acquiring device information, the camera and the microphone (when it is be used) must be registered according to the operating instructions of the recorder. When the recorder is not configured correctly, downloading of the recorder information may be impossible.
- When the settings of the setup menu of the recorder are edited, download the recorder information again.
- The camera and the microphone to be linked each other must be registered in the same recorder.

Step 6

Click the [OK] button.



→ The downloading status window will be displayed. To cancel downloading the recorder information, click the [Cancel] button on the displayed downloading status window.



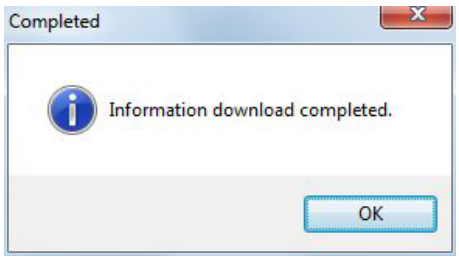
Step 7

The message window will be displayed when download process ended.

<When download of the device information is successfully completed>

The confirmation window will be displayed.

1. Click the [OK] button.



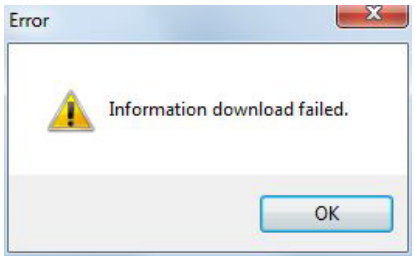
→ The confirmation window will close.

2. Go to step 8.

<When download of the device information failed>

The error message window will be displayed.

1. Confirm the content of the message indicated in the window.



Note:

- Check if the entered device information is correct. When the information has been edited correctly, the connected device or the version of the connected device may not be compatible with this software. Refer to the "Compatible devices" section (☞ page 6) for further information.
- Refer to the "When the [Start...] button on the setup page of "Device mng." is clicked" section (☞ page 152) for further information about the displayed messages and solutions.

2. Click the [OK] button.

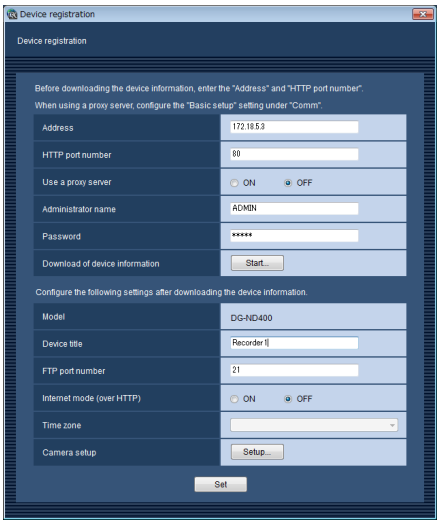
→ The error window will close.

3. When the device registration will be displayed again, confirm the settings.

4. Then, download the device information again.

Step 8

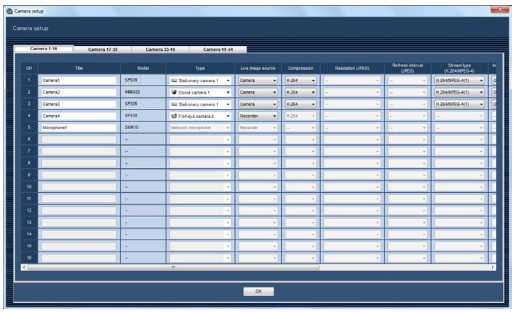
Complete the setting of "Device title" and "FTP port number".

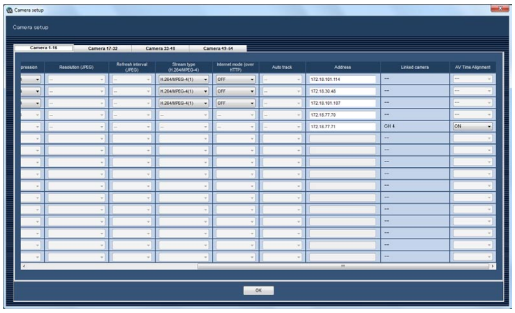


Step 9

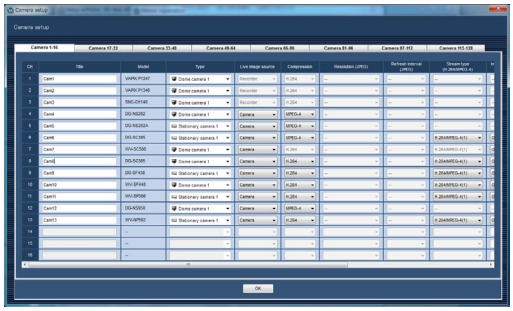
Click the [Setup...] button.

→ The "Camera setup" window will be displayed.

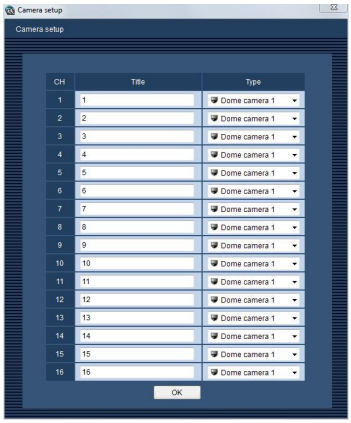




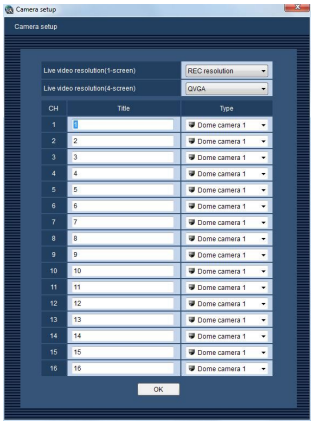
<The camera setup window of network disk recorder>



<The camera setup window of the ASR500>



<The camera setup window of the HD300>



<The camera setup window of the HD600>

The following are descriptions about each item displayed on the "Camera setup" window.

■ [Camera CH] tabs

Click the tab to change the setup page.

Important:

- When using ASR500 and even 128 or more camera channels are registered in ASR 500 as in the example below, only 128 camera channels of them can be registered in this software. Make sure that the number of the camera channels to be registered are 128 or less.
  Example) Register a single GXE500 and 127 cameras to use the total of 131 channels.

Note:

- The displayed tab varies with recorders.
- When the recorder in use is the HD300 or the HD600, this tab will not be displayed.
- When the recorder in use is the NV200 or the NV300, the tabs for up to 32 channels will be displayed, but it is impossible to edit the unused or invalid channels.

■ CH

The camera channel numbers will be displayed.

■ Title

The device name contained in the downloaded recorder information will be displayed. The displayed titles can be edited.
Enter up to 24 characters for the device name. The following characters are unavailable for the camera title.
!$ % ' < = > @ [\ ] ^ _ ` { | } ~

Note:

- If these unavailable characters are used for the camera title on the HD600, NV200, NV300 or ND400, they will be replaced with spaces.

■ Model

The device name contained in the information obtained from the recorded will be displayed. "--" will be displayed for the channel for which no device is set.

Note:

- If the camera has been registered on the NV200 or the NV300, the model number prefix such as "WV-", "WJ-" or "WV-" will not be displayed.
- Even when the microphone is registered in the recorder, the microphone will not be displayed in the device tree though the microphone will be displayed as the channel setting information.
- If using WV-SPN631L or WV-SPN611L cameras with RS485 option enabled and "Camera" is selected for "Live image source", "WV-SPN631L (RS485)" or "WV-SPN611L (RS485)" will be displayed.

■ Type

Indicates the device type and the corresponding icon of the device obtained from the recorder.
There are 20 types: Dome camera 1, Dome camera 2, Dome camera 3, Dome camera 4, Dome camera 5, Dome camera 6, Dome camera 7, Dome camera 8, Dome camera 9, Dome camera10, Dome camera11, Stationary camera 1, Stationary camera 2, Stationary camera 3, Stationary camera 4, Fisheye camera 1, Fisheye camera 2, Fisheye camera 3, Aero PTZ camera, Network microphone.
Default: Differs depending on the model number of the camera when the recorder in use is NV200 or the NV300. For the ND400, one of the following is indicated: "Dome camera 1", "Stationary camera 1", "Fisheye camera 1", "Fisheye camera 2", "Fisheye camera 3" or "Aero PTZ camera".
When another network disk recorder is used, "Dome camera 1" or "Stationary camera 1" will be indicated. When the recorder in use is the HD300 or the HD600, "Dome camera 1" will be indicated.

Note:

- The camera icon registered in the map will not change even when the camera type is changed.
- No icon will be displayed for the microphone.

■ Live image source

Select a live image/audio source.
Recorder: It is possible to monitor live images/audio through the recorder.
Camera: It is possible to view live images directly from the camera.
It is necessary to register the cameras on the recorder even if "Camera" is selected. Refer to the operating instructions of the recorder in use for how to register the cameras.

Default: When the camera in use is compatible with the direct image reception function, the default is "Camera".
When the camera in use is not compatible with the direct image reception function, the default is "Recorder".

Note:
- When "Camera" is selected, live images from the camera can be displayed even when "OFF" is selected for "LIVE VIDEO" of the setup menu of the recorder.
- A message window may be displayed if "Camera" is selected. Refer to the "When the live image source is selected on the "Camera setup" window" section (☞ page 153) for further information about the displayed messages and solutions.
- The "Live image source" setting of all the linked cameras will be changed to "Recorder".

■ Compression

Select the image compression type of the camera.
The image compression type can be selected only when using an MPEG-4 or H.264 camera and "Camera" is selected for "Live image source".
M-JPEG: Live images will be displayed in the M-JPEG format.
MPEG-4: Live images will be displayed in the MPEG-4 format.
H.264: Live images will be displayed in the H.264 format.
Default: Indicates the setting configured on the recorder.
Refer to the operating instructions of the recorder in use for how to configure the compression type of the camera on the recorder.

■ Resolution (JPEG)

Select the resolution from the following.
The resolution setting can be configured only when "Camera" is selected for "Live image source" and "M-JPEG" is selected for "Compression".
Auto†1 †2: When displaying images on 1-/3-/4-/6-screen or the large areas of 7-/10-/13-screen, images will fit to the display size of each area and be displayed with VGA (640x480) resolution.
When displaying images on a screen other than the above, images will fit to the display size of each area and be displayed with QVGA (320x240) resolution.
160×120/160×90: Images whose resolution is 160×120 (160×90 in the 16:9 mode) will automatically be fit into the area regardless of the screen pattern.
QVGA: Images whose resolution is QVGA (320x240) will automatically be fit into the area regardless of the screen pattern.
QVGA/320x180†6: Images whose resolution is QVGA (320x240, 320x180 in the 16:9 mode) will automatically be fit into the area regardless of the screen pattern.
QVGA/ 320×180/ 320×320: Images whose resolution is QVGA (320x240, 320x180 in the 16:9 mode, 320×320 in the 1:1 mode) will automatically be fit into the area regardless of the screen pattern.
400x300: Images whose resolution is 400x300 will automatically be fit into the area regardless of the screen pattern.
VGA: Images whose resolution is VGA (640x480) will automatically be fit into the area regardless of the screen pattern.
VGA/640×360: Images whose resolution is VGA (640×480, 640×360 in the 16:9 mode) will automatically be fit into the area regardless of the screen pattern.
VGA/ 640×360/ 800×600: Images whose resolution is VGA (640×480, 640x360 in the 16:9 mode, 800x600 in the 4:3 (800x600) mode) will automatically be fit into the area regardless of the screen pattern.
VGA/ 640×360/ 640×640: Images whose resolution is QVGA (640×480, 640×360 in the 16:9 mode, 640×640 in the 1:1 mode) will automatically be fit into the area regardless of the screen pattern.
800x600: Images whose resolution is 800x600 will automatically be fit into the area regardless of the screen pattern.
1280×960†3: Images whose resolution is 1280x960 will automatically be fit into the area regardless of the screen pattern.
1280×960/ 1280×720: Images whose resolution is 1280x960 (1280×720 in the 16:9 mode) will automatically be fit into the area regardless of the screen pattern.
1280×960/ 1280×720/ 1280×1280: Images whose resolution is 1280×960 (1280×720 in the 16:9 mode, 1280×1280 in the 1:1 mode) will automatically be fit into the area regardless of the screen pattern.
1600x1200: Images whose resolution is 1600x1200 will automatically be fit into the area regardless of the screen pattern.
1920×1080†4: Images whose resolution is 1920x1080 will automatically be fit into the area regardless of the screen pattern.
2048×1536†5 †7: Images whose resolution is 2048x1536 will automatically be fit into the area regardless of the screen pattern.

2048×1536/2048×2048: Images whose resolution is 2048×1536 (2048×2048 in the 1:1 mode) will automatically be fit into the area regardless of the screen pattern.
2560×1920/2560×1440: Images whose resolution is 2560×1920 (2560×1440 in the 16:9 mode) will automatically be fit into the area regardless of the screen pattern.
2816×2816: Images whose resolution is 2816×2816 will automatically be fit into the area regardless of the screen pattern.
2992×2992: Images whose resolution is 2992×2992 will automatically be fit into the area regardless of the screen pattern.
3840×2160: Images whose resolution is 3840×2160 will automatically be fit into the area regardless of the screen pattern.
4000×3000: Images whose resolution is 4000×3000 will automatically be fit into the area regardless of the screen pattern.
Default: When "Camera" is selected for "Live image source" and "M-JPEG" is selected for "Compression", "Auto" is the default. When the selected parameters for "Live image source" and "Compression" are other than "Camera" and "M-JPEG" respectively, "--" is the default.

†1: When the image capture mode is 2 megapixels or 3 megapixels, images whose resolution is VGA will be displayed regardless of the screen pattern.
†2: The fisheye network cameras have different display sizes depending on the image capture mode.

- 1-screen/left area of 3A-screen/right area of 3B-screen

Image capture mode	Display size
9M Fisheye	2992×2992
8M Fisheye	2816×2816
4M Fisheye	2048×2048
3M Fisheye	2048×1536
1.3M Fisheye	1280×960

- 4-/7-screen and the large areas of 10-/13-screen

Image capture mode	Display size
9M Fisheye	1280×1280
8M Fisheye	1280×1280
4M Fisheye	1280×1280
3M Fisheye	2048×1536
1.3M Fisheye	1280×960

- Multi-screen other than the above

Image capture mode	Display size
9M Fisheye	320×320
8M Fisheye	320×320
4M Fisheye	320×320
3M Fisheye	2048×1536
1.3M Fisheye	320×240

†3: When "Partial" is selected for the scan mode of NP100x, the resolution will be 960x720.
†4 When the image capture mode is not 2 megapixels (in the 16:9 mode), 3 megapixels (in the 16:9 mode), 2M Double Panorama (in the 16:9 mode) or 2M Panorama (in the 16:9 mode), the image will not be displayed in the resolution set for the camera or an error may occur.
†5 When the image capture mode is not 3 megapixels (in the 4:3 mode) or 3M Fisheye (in the 4:3 mode), the image will not be displayed in the resolution set for the camera or an error may occur.
†6 If it is selected when "3 mega pixel" is set for "Image capture mode" of NP502 or NW502, an error will occur.
†7 If it is selected when "1.3 mega pixel" is set for "Image capture mode" of NP502 or NW502, an error will occur.

Note:

- For 6-series cameras, new 3-series cameras, WV-SPN531, new 5-series cameras, WV-SFN110, WV-SFV110, WV-SFN130, and WV-SFV130, if an image capture size that is not available for JPEG (1) - (3) is set, the one set for JPEG (1) will be applied for images.
- For 9M Fisheye cameras and 7-series cameras, if an image capture size that is not available for JPEG (1) or JPEG (2) is set, the one set for JPEG (1) (if JPEG (1) is not available, JPEG (2)) will be applied for images.

■ Refresh interval (JPEG)

Determine the refresh interval of the camera (number of images to be refreshed per second).
The refresh interval setting can be configured only when "Camera" is selected for "Live image source" and "M-JPEG" is selected for "Compression".
Auto/0.1 ips/0.2 ips/0.3 ips/0.5 ips/1 ips/2 ips/3 ips/5 ips/10 ips/15 ips/All
When "Auto" is selected, an appropriate refresh interval will be applied according to the value set for "JPEG/VGA (Live/Playback)" on the "Performance" page.
When "All" is selected, the refresh interval will be "30 ips".
Default: When "Camera" is selected for "Live image source" and "M-JPEG" is selected for "Compression", "Auto" is the default.
When the selected parameters for "Live image source" and "Compression" are other than "Camera" and "M-JPEG" respectively, "--" is the default.

Note:

- The actual refresh interval may become slower than the set refresh interval depending on the network environment, the settings of the camera and the set maximum refresh interval on the "Performance" page.
- Refer to the "Set the maximum refresh interval [Performance]" section (☞ page 34) for how to set the maximum refresh interval.

■ Stream type (H.264/MPEG-4)

Select the stream type from the following.
The stream type setting can be set only when "Camera" is selected for "Live image source" and "H.264" or "MPEG-4" is selected for "Compression".
Auto: H.264/MPEG-4(1) stream will be applied when displaying images on 1-screen/left area of 3A-screen/right area of 3B-screen. For multi-screen other than the above, H.264/MPEG-4(2) stream will be applied.
When any of the following cameras is in use, each of H.264/MPEG-4(2) stream, H.264/MPEG-4(3) stream and H.264/MPEG-4(4) stream will be applied as follows respectively.
<6-series cameras, new 3-series cameras, WV-SPN531, new 5-series cameras, 7-series cameras (4 mega pixel mode), WV-SFN110, WV-SFV110, WV-SFN130 and WV-SFV130>
H.264/MPEG-4(2) stream will be applied to 4-screen and the large areas of 7-/10-/13-screen.
H.264/MPEG-4(3) stream will be applied to 6-/9-/16-/25-screen (WV-ASE202 is required) and the small areas of 3A-/3B-/7-/10-/13-screen.
H.264/MPEG-4(4) stream will be applied to 36-/49-/64-screen (WV-ASE202 is required).
H.264/MPEG-4(1): Always apply H.264/MPEG-4(1) for the stream type.
H.264/MPEG-4(2): Always apply H.264/MPEG-4(2) for the stream type.
H.264/MPEG-4(3)†1: Always apply H.264/MPEG-4(3) for the stream type.
H.264/MPEG-4(4)†1: Always apply H.264/MPEG-4(4) for the stream type.
Default: H.264/MPEG-4(1)

†1 Available only for 6-series cameras, new 3-series cameras, WV-SPN531, new 5-series cameras, 7-series cameras, WV-SFN110, WV-SFV110, WV-SFN130, and WV-SFV130.

Note:

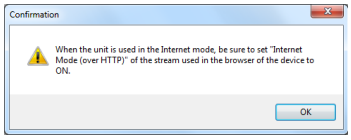
- Refer to the operating instructions of the camera in use for how to configure the settings for each steam type of "H.264/MPEG-4(1)", "H.264/MPEG-4(2)", "H.264/MPEG-4(3)" and "H.264/MPEG-4(4)".
- When selecting "AUTO", it is possible to reduce the network bandwidth consumption and lower the CPU load of the PC by performing the settings of "H.264/MPEG-4(1)" for 1-screen display, and the settings of "H.264/MPEG-4(2)", "H.264/MPEG-4(3)" and "H.264/MPEG-4(4)" for multi-screen display.

■ Internet mode (over HTTP)

Select HTTP port or UDP port to use when receiving MPEG-4, H.264 images or audio when "Camera" is selected for "Live image source".
ON: Receive MPEG-4 or H.264 images with audio using the HTTP port.
OFF: Receive MPEG-4 or H.264 images with audio using the UDP port.
Default: "OFF" when "Camera" is selected for "Live image source" and "- -" otherwise

Note:

- It is impossible to use this mode when the cameras in use are WV-NP244, WV-NP1000/NP1004, WV-NS202, WV-NS202A, WV-NF284, WV-NW484, WV-NS950/NS954, WV-NW960/NW964, WV-NP304, WV-NF302.
- If "ON" is selected for "Internet mode (over HTTP)", the following dialog box will be displayed when the [OK] button is clicked. When the Internet mode is used, select "ON" for "Internet mode (over HTTP)" on the cameras.



■ Auto track

Select whether to trace the route set in advance automatically when "Camera" is selected for "Live image source".
ON: Trace the route automatically.
OFF: Not trace the route automatically.
Default: --

Note:

- This mode 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.
- When "ON" is selected for "Auto track", the "+" mark will be displayed while panning/tilting is being controlled using the WV-CU950 and the lock-on function will work by pressing the top button.
- Auto track is unavailable while panning/tilting is being controlled.

■ Address

The address of the device contained in the information obtained from the recorder will be displayed.

Note:

- When the Internet mode is used, images may not be displayed correctly unless the address is changed to what can be accessed from the Internet.

■ Linked camera

When a microphone is used, a channel number of the linked camera contained in the information obtained from the recorder will be displayed.

■ AV Time Alignment

When a microphone is used, determine whether or not to adjust timing of video and audio.
ON: The AV time alignment will be performed.
OFF: The AV time alignment will not be performed.
Default: ON

■ Live video resolution(1-screen)

Select the resolution of live images on a 1-screen from the following.
REC resolution: Live images are transmitted with the resolution applied at the time of recording.
QVGA: Live images are transmitted in the QVGA size.
Default: REC resolution

■ Live video resolution(4-screen)

Select the resolution of live images on a 4-screen from the following.
REC resolution: Live images are transmitted with the resolution applied at the time of recording.
QVGA: Live images are transmitted in the QVGA size.
Default: QVGA

Note:

- Refer to the operating instructions of the HD600 for further information about the settings of transmission (such as the transmission rate and the image quality) when "REC resolution" or "QVGA" is selected.
- Sometimes, live images may not be displayed even when the transmission rate of the recorder is too low.
  While live images are being displayed in sequence, select "QVGA" for "Live video resolution(1-screen)" and "Live video resolution(4-screen)".

■ [OK] button

The "Camera setup" window will be closed.

Step 10

Click the [OK] button after completing the settings.
→ The "Camera setup" window will close.

Note:

- The edited settings will not be saved and applied even when the "Camera setup" window is closed by clicking the [OK] button. To save and apply the settings, click the [Set] button on the "Device registration" window after closing the "Camera setup" window.

Step 11

Click the [Set] button on the "Device registration" window.
→ The "Device registration" window will close and the settings will be saved and applied. The registered recorder will be displayed in the list of the registered device.

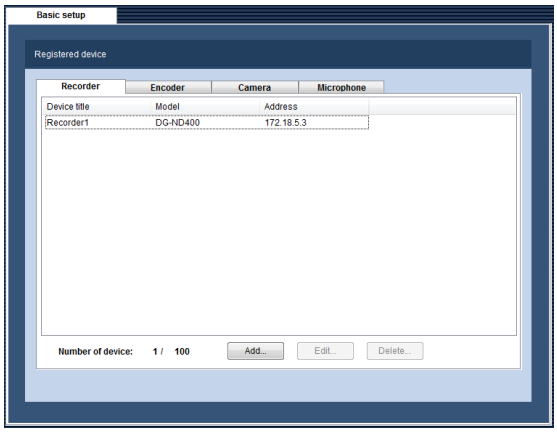
Note:

- When a recorder in which a microphone is registered is added, the "Audio" setting (☞ page 24) will automatically be switched to "ON".

Edit the registered recorder information [Basic setup]

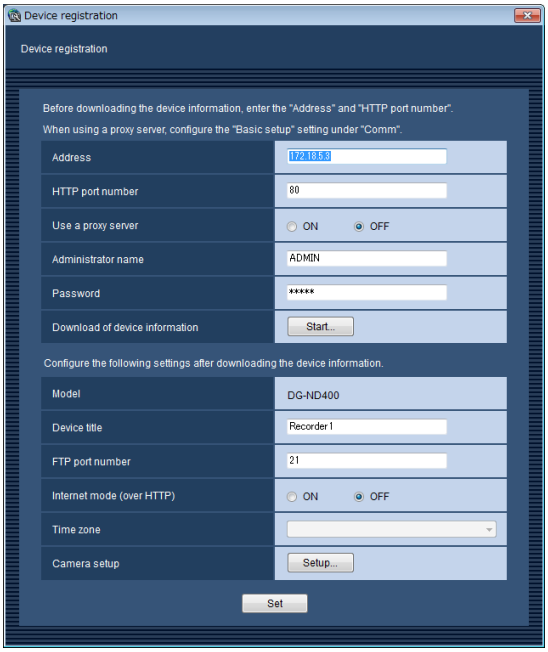
Step 1

Display the "Registered device" window of the recorder. (☞ page 38)



Step 2

Select the recorder whose information is to be edited, and then click the [Edit...] button.
The "Device registration" window will be displayed.



Step 3

Click the [Set] button after editing the information. Refer to the "Register a recorder [Basic setup]" section (☞ page 38) for further information.

→ The "Device registration" window will close and the settings will be saved and applied.

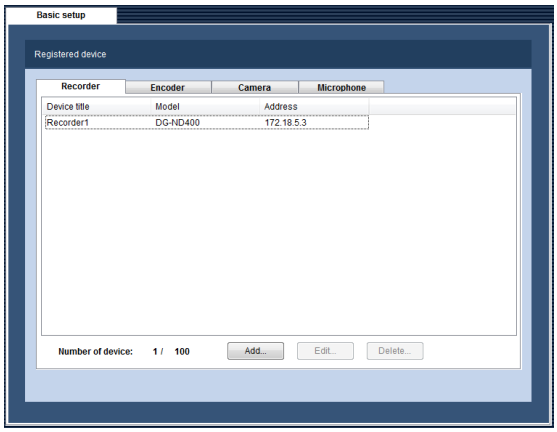
Note:

- When a recorder in which a microphone is registered is edited, the "Audio" setting (☞ page 24) will automatically be switched to "ON".

Delete the registered recorder [Basic setup]

Step 1

Display the "Registered device" window of the recorder. (☞ page 38)



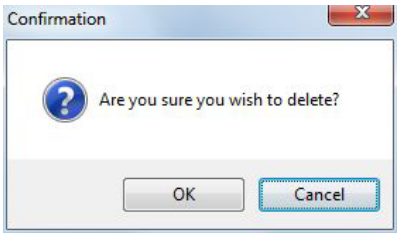
Step 2

Select the recorder to be deleted.

Step 3

Click the [Delete...] button.

→ The confirmation window will be displayed.



Step 4

Click the [OK] button.

→ The device information will be deleted.

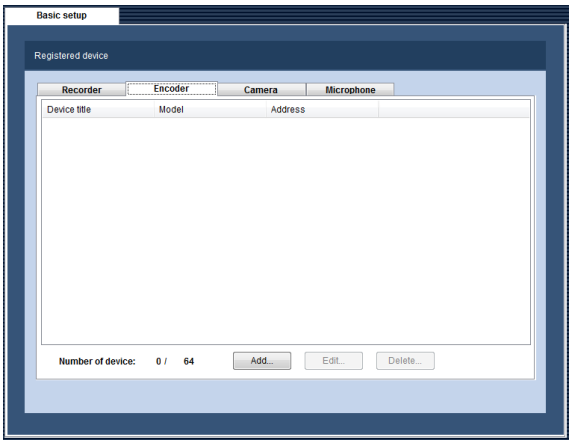
Register an encoder [Basic setup]

Step 1

Click the [Device mng.] button.
→ The "Registered device" window will be displayed.

Step 2

Click the [Encoder] tab.
→ The "Registered device" window of the encoder will be displayed.



The following are descriptions about each item displayed on the "Registered device" window of the encoder.

■ Registered device

Titles, model numbers and addresses of the registered encoders will be displayed in list form.

■ Number of device

Number of the registered encoders will be displayed.

■ [Add...] button

Click this button to display the "Device registration" window.

■ [Edit...] button

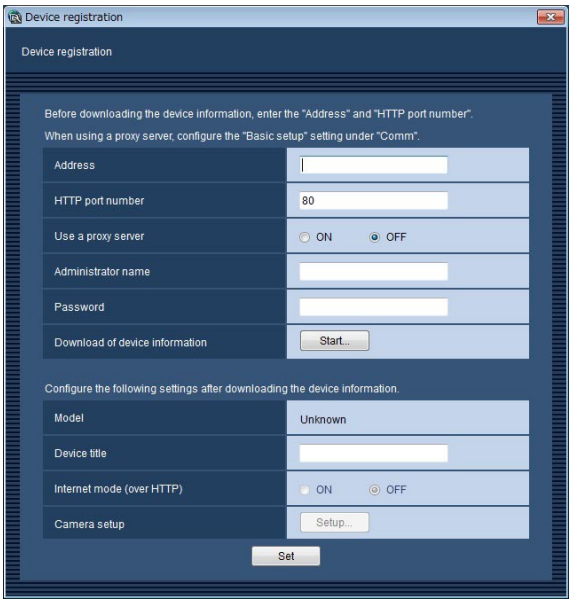
The "Device registration" window of the encoder selected from the list will be displayed.

■ [Delete...] button

The encoder selected from the list will be deleted.

Step 3

Click the [Add...] button.
→ The "Device registration" window will be displayed.



Note:

- The [Add...] button will become unavailable when reached the maximum number of encoder registration.

The following are descriptions about each item displayed on the "Device registration" window of the encoder.

■ Address

Enter the IP address of the encoder.
Enter the address using up to 255 alphanumeric characters including "." (dot) and "-" (hyphen).

■ HTTP port number

Enter a number among the following for the HTTP port number.
1 - 65535
Default: 80

■ Use a proxy server

Determine whether to use or not use a proxy server to connect the encoder.
ON: Use a proxy server
OFF: Not use a proxy server
Default: OFF

Note:

- The proxy server address can be set on the [Basic setup] tab of the "Comm" page (☞ page 111).

■ Administrator name

Enter the administrator name registered in the encoder. Enter 1 - 32 alphanumeric characters for the administrator name.

■ Password

Enter the administrator password registered in the encoder. The entered password will be displayed as "*". Enter 4 - 32 characters for the password. The following characters, space (blank) and 2-byte characters are unavailable.
" &

■ [Start...] button

Device information will be downloaded based on the settings of "Address", "HTTP port number" and "Use a proxy server".

■ Model

The model number of the encoder contained in the device information downloaded from the encoder will be displayed.
"Unknown" will be displayed when encoder information is not downloaded yet.

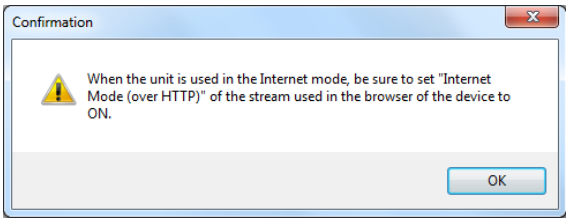
■ Device title

Enter the encoder title.
Enter up to 16 characters.
The following characters are unavailable for the encoder title.
!$ % ' < = > @ [\ ] ^ _ ` { | } ~

■ Internet mode (over HTTP)

Select which of the HTTP or UDP port is used when receiving MPEG-4 or H.264 images with audio.
ON: Receive MPEG-4 or H.264 images with audio using the HTTP port.
OFF: Receive MPEG-4 or H.264 images with audio using the UDP port.
Default: OFF

This mode is available only when the encoder in use is GXE500.
If "ON" is selected for "Internet mode (over HTTP)", the following dialog box will be displayed when the [Set] button is clicked. When the Internet mode is used, select "ON" for "Internet mode (over HTTP)" on the encoders.



■ [Setup...] button

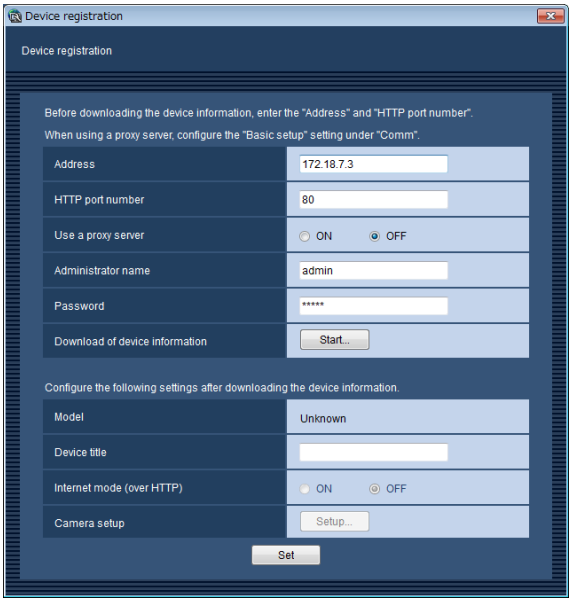
The "Camera setup" window will be displayed.
The [Setup...] button will be unavailable until encoder information is downloaded.

■ [Set] button

The edited settings will be saved and applied.

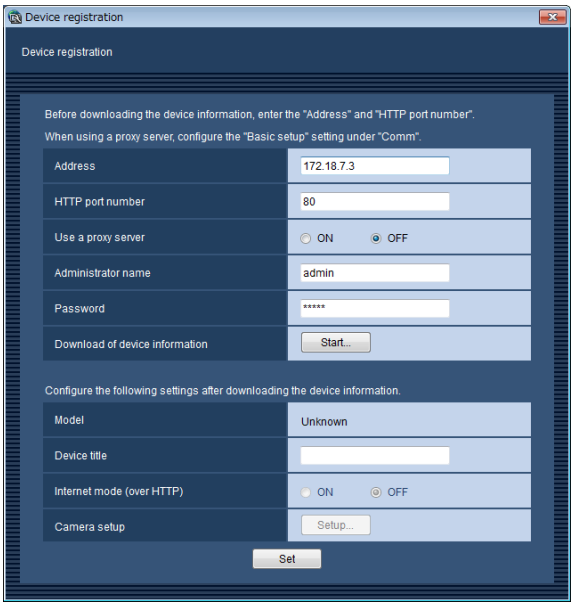
Step 4

Complete the settings of "Address", "HTTP port number", "Use a proxy server", "Administrator name" and "Password".



Step 5

Click the [Start...] button.

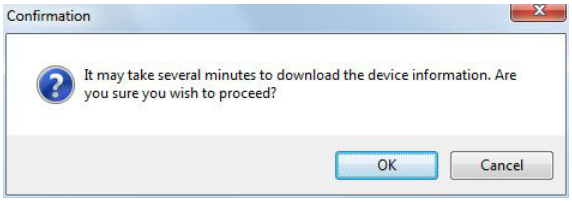


Important:

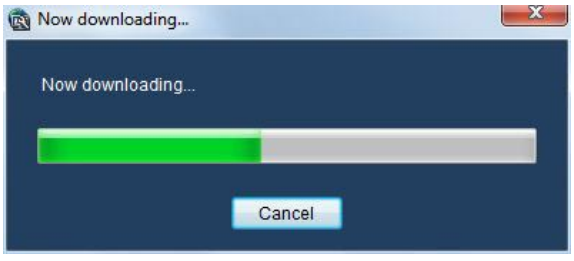
- When the settings of the setup menu of the encoder are edited, download the encoder information again.

Step 6

Click the [OK] button.



→ The downloading status window will be displayed. To cancel downloading the encoder information, click the [Cancel] button on the "Now downloading..." window.

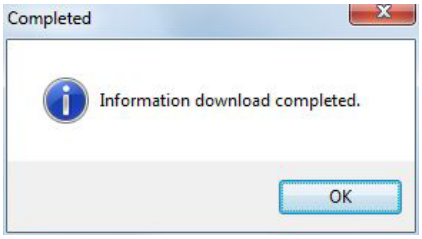


Step 7

The message window will be displayed when download process ended.

<When download of the encoder information is successfully completed>

1. Click the [OK] button.

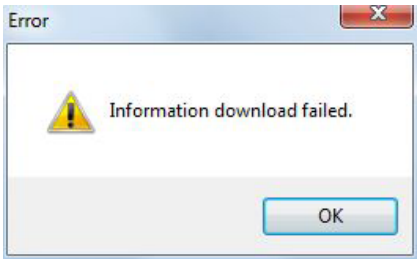


→ The confirmation window will close.

2. Go to step 8.

<When downloading of the encoder information failed>

1. Confirm the content of the message indicated in the window.



Note:

- Check if the entered device information is correct. When the information has been edited correctly, the connected device or the version of the connected device may not be compatible with this software. Refer to the "Compatible devices" section (☞ page 6) for further information.

2. Click the [OK] button.

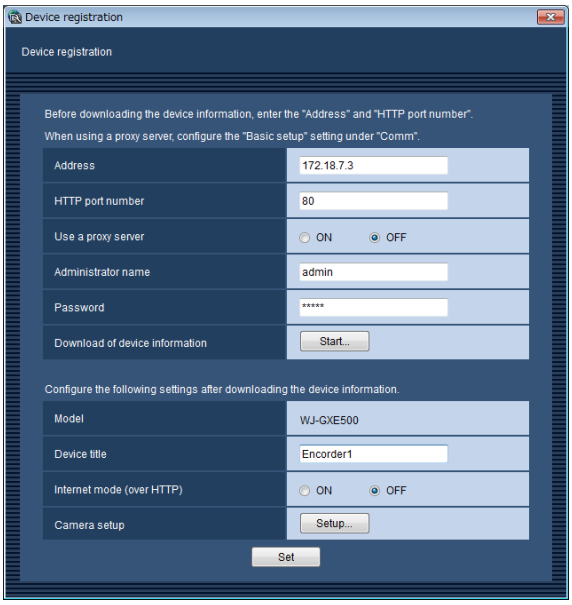
→ The error window will close.

3. When the device registration will be displayed again, confirm the settings.

4. Then, download the device information again.

Step 8

Enter for "Device title".

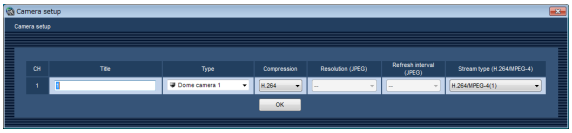


Step 9

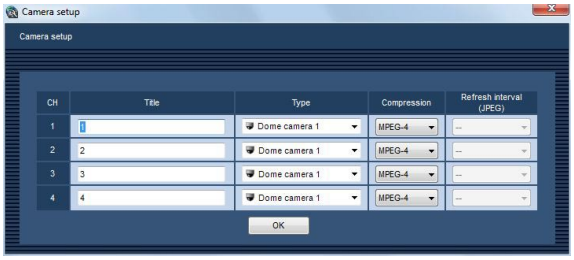
Click the [Setup...] button.

→ The "Camera setup" window will be displayed.

<The camera setup window of the GXE500>



<The camera setup window of the GXE100>



<The camera setup window of the NT304 / NT314>

The following are descriptions about each item displayed on the "Camera setup" window of the encoder.

■ CH

The camera channel numbers will be displayed.

■ Title

Enter the camera title.
When editing the camera title, enter up to 16 characters.
The following characters are unavailable for the camera title.
!$ % ' < = > @ [\ ] ^ _ ` { | } ~
Default: Camera channel number

■ Type

Indicates the type and the corresponding icon of the camera.
There are 19 types: Dome camera 1, Dome camera 2, Dome camera 3, Dome camera 4, Dome camera 5, Dome camera 6, Dome camera 7, Dome camera 8, Dome camera 9, Dome camera10, Dome camera11, Stationary camera 1, Stationary camera 2, Stationary camera 3, Stationary camera 4, Fisheye camera 1, Fisheye camera 2, Fisheye camera 3, Aero PTZ camera.
Default: Dome camera 1

Note:

- The camera icon registered in the map will not change even when the camera type is changed.

■ Compression

Select the image compression method from the following.
M-JPEG: Live images will be displayed in the M-JPEG format.
MPEG-4: Live images will be displayed in the MPEG-4 format.
H.264: Live images will be displayed in the H.264 format.
Default: "H.264" when the encoder in use supports the H.264 format "MPEG-4" when the encoder in use does not support the H.264 format

■ Resolution (JPEG)

Select the resolution from the following.
The resolution setting can be configured only when "M-JPEG" is selected for "Compression".
Auto: When displaying images on 1-/3-/4-/6-screen or the large areas of 7-/10-/13-screen, images will fit to the display size of each area and be displayed with VGA (640x480) resolution. When displaying images on a screen other than the above, images will fit to the display size of each area and be displayed with QVGA (320x240) resolution.

QVGA/ 320x180: Images whose resolution is QVGA (320x240, 320x180 in the 16:9 mode) will automatically be fit into the area regardless of the screen pattern.
VGA/ 640x360: Images whose resolution is VGA (640x480, 640x360 in the 16:9 mode) will automatically be fit into the area regardless of the screen pattern.
Default: When "M-JPEG" is selected for "Compression", "Auto" is the default.
When "Compression" is other than "M-JPEG", "--" is the default.

■ Refresh interval (JPEG)

Determine the refresh interval of the camera (number of images to be refreshed per second).
The refresh interval setting can be configured only when "M-JPEG" is selected for "Compression".
Auto/0.1 ips/0.2 ips/0.3 ips/0.5 ips/1 ips/2 ips/3 ips/5 ips/10 ips/15 ips/All
When "Auto" is selected, an appropriate refresh interval will be applied according to the value set for "JPEG/VGA (Live/Playback)" on the "Performance" page.
When "All" is selected, the refresh interval will be "30 ips".
Default: When "M-JPEG" is selected for "Compression", "Auto" is the default.
When "Compression" is other than "M-JPEG", "--" is the default.

Note:
- The actual refresh interval may become slower than the set refresh interval depending on the network environment, the settings of the camera and the set maximum refresh interval on the "Performance" page.
- Refer to the "Set the maximum refresh interval [Performance]" section (☞ page 34) for how to set the maximum refresh interval.

■ Stream type (H.264/MPEG-4)

Select the stream type from the following.
The stream type setting can be set only when "H.264" or "MPEG-4" is selected for "Compression" on the encoder supporting the H.264 format.
H.264/MPEG-4(1): Always apply H.264/MPEG-4(1) for the stream type.
H.264/MPEG-4(2): Always apply H.264/MPEG-4(2) for the stream type.
Default: H.264/MPEG-4(1)

Note:
- Refer to the operating instructions of the encoder in use for how to configure the settings for the steam type of "H.264/MPEG-4(1)" and "H.264/MPEG-4(2)".

■ [OK] button

Click this button to close the "Camera setup" window.

Step 10

Click the [OK] button after completing the settings.
→ The "Camera setup" window will close.

Note:
- The edited settings will not be saved and applied even when the "Camera setup" window is closed by clicking the [OK] button.
To save and apply the settings, click the [Set] button on the "Device registration" window after closing the "Camera setup" window.

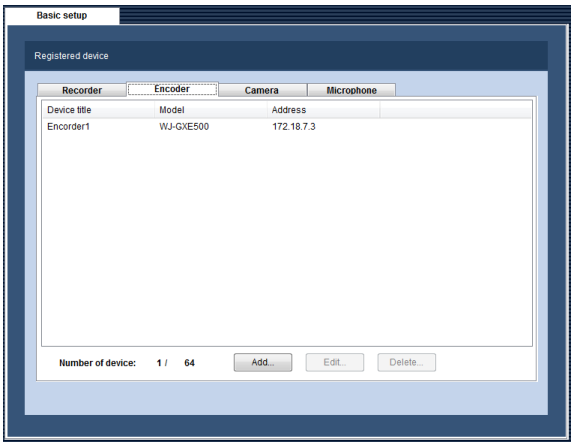
Step 11

Click the [Set] button on the "Device registration" window.
→ The "Device registration" window will close and the settings will be saved and applied.
The registered encoder will be displayed in the list of the registered devices.

Edit the registered encoder information [Basic setup]

Step 1

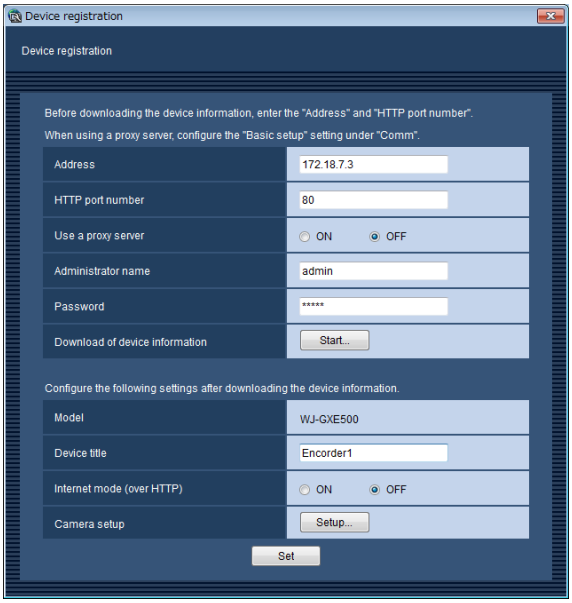
Display the "Registered device" window of the encoder. (☞ page 49)



Step 2

Select the encoder whose information is to be edited from the list of the registered devices, and then click the [Edit...] button.

→ The "Device registration" window will be displayed.



Step 3

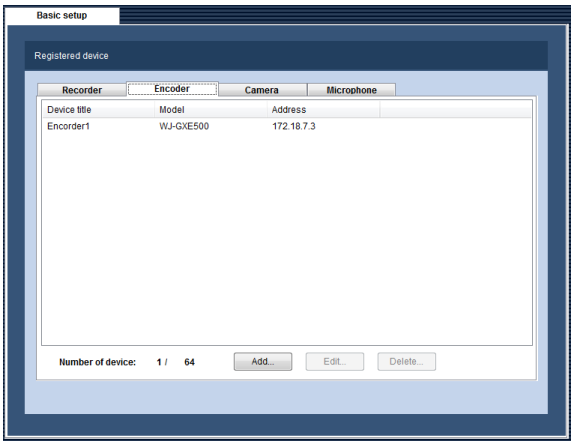
Click the [Set] button after editing the information. Refer to the "Register an encoder [Basic setup]" section (☞ page 49) for further information.

→ The "Device registration" window will close and the settings will be saved and applied.

Delete the registered encoder [Basic setup]

Step 1

Display the "Registered device" window of the encoder. (☞ page 49)



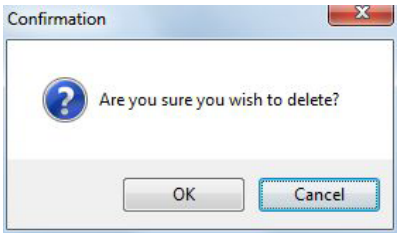
Step 2

Select the encoder to be deleted from the list of the registered devices.

Step 3

Click the [Delete...] button.

→ The confirmation window will be displayed.



Step 4

Click the [OK] button.

→ The device information of the selected encoder will be deleted.

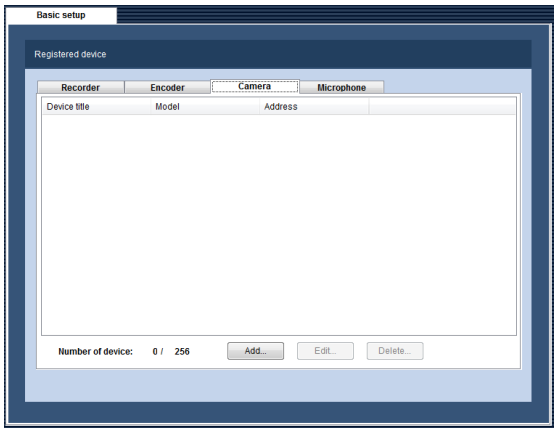
Register a camera [Basic setup]

Step 1

Click the [Device mng.] button.
→ The "Registered device" window will be displayed.

Step 2

Click the [Camera] tab.
→ The "Registered device" window of the camera will be displayed.



The following are descriptions about each item displayed on the "Registered device" window of the camera.

■ Registered device

Titles, model numbers and addresses of the registered cameras will be displayed in list form.

■ Number of device

Number of the registered cameras will be displayed.

■ [Add...] button

Click this button to display the "Device registration" window.

■ [Edit...] button

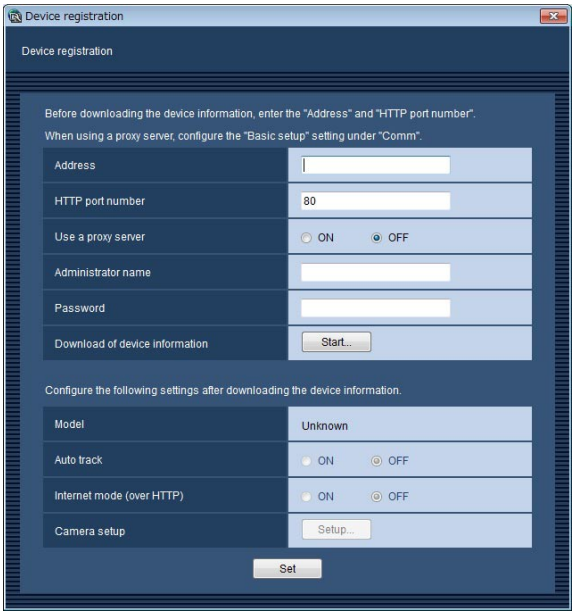
The "Device registration" window of the camera selected from the list will be displayed.

■ [Delete...] button

The camera selected from the list will be deleted.

Step 3

Click the [Add...] button.
→ The "Device registration" window will be displayed.



Note:

- The [Add...] button will become unavailable when reached the maximum number of camera registration.

The following are descriptions about each item displayed on the "Device registration" window of the camera.

■ Address

Enter the IP address of the camera.
Enter the address using up to 255 alphanumeric characters including "." (dot) and "-" (hyphen).

■ HTTP port number

Enter a number among the following for the HTTP port number.
1 - 65535
Default: 80

■ Use a proxy server

Determine whether to use or not use a proxy server to connect the camera.
ON: Use a proxy server
OFF: Not use a proxy server
Default: OFF

Note:

- The proxy server address can be set on the [Basic setup] tab of the "Comm" page (☞ page 111).

■ Administrator name

Enter the administrator name registered in the camera. Enter 1 - 32 alphanumeric characters for the administrator name.

■ Password

Enter the administrator password registered in the camera. The entered password will be displayed as "*". Enter 4 - 32 characters for the password. The following characters, space (blank) and 2-byte characters are unavailable.
" &

■ [Start...] button

Device information will be downloaded based on the settings of "Address", "HTTP port number" and "Use a proxy server".

■ Model

The model number of the camera contained in the device information downloaded from the camera will be displayed.
"Unknown" will be displayed when camera information is not downloaded yet.

Note:

- If using WV-SPN631L or WV-SPN611L cameras and the RS485 option is enabled, "WV-SPN631L (RS485)" or "WV-SPN611L (RS485)" will be displayed.

■ Auto track

Select whether to trace the route set in advance automatically.
ON: Trace the route automatically.
OFF: Not trace the route automatically.
Default: OFF

Note:

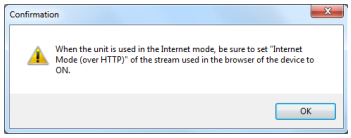
- This mode is available only when the camera in use is WV-SC386, WV-SW396, WV-SW396A, WV-SC588/WV-SC588A, WV-SW598/WV-SW598A, WV-SW397/WV-SW397A/WV-SW397B or WV-SC387/WV-SC387A.
- When "ON" is selected for "Auto track", the "+" mark will be displayed while panning/tilting is being controlled using the WV-CU950 and the lock-on function will work by pressing the top button.
- Auto track is unavailable while panning/tilting is being controlled.

■ Internet mode (over HTTP)

Select which of the HTTP or UDP port is used when receiving MPEG-4 or H.264 images with audio.
ON: Receive MPEG-4 or H.264 images with audio using the HTTP port.
OFF: Receive MPEG-4 or H.264 images with audio using the UDP port.
Default: OFF

Note:

- It is impossible to use this mode when the cameras in use are WV-NP244, WV-NP1000/NP1004, WV-NS202, WV-NS202A, WV-NF284, WV-NW484, WV-NS950/NS954, WV-NW960/NW964, WV-NP304, WV-NF302.
- If "ON" is selected for "Internet mode (over HTTP)", the following dialog box will be displayed when the [OK] button is clicked. When the Internet mode is used, select "ON" for "Internet mode (over HTTP)" on the cameras.



■ [Setup...] button

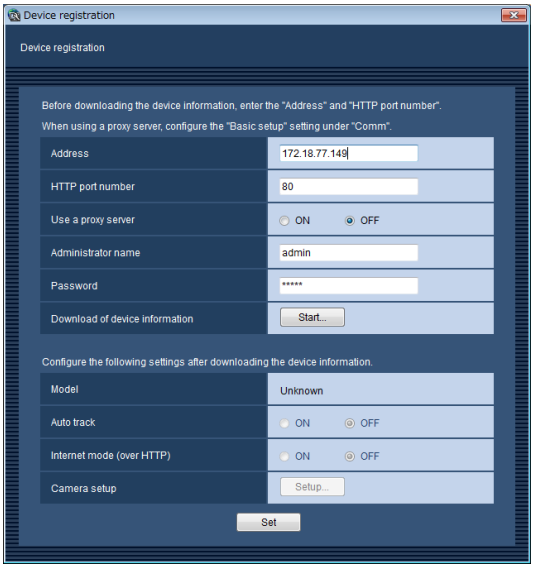
The "Camera setup" window will be displayed.
The [Setup...] button will be unavailable until camera information is downloaded.

■ [Set] button

The edited settings will be saved and applied.

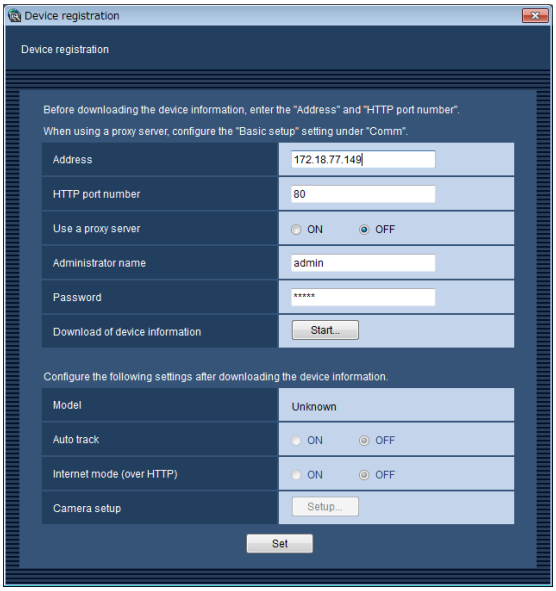
Step 4

Complete the settings of "Address", "HTTP port number", "Use a proxy server", "Administrator name" and "Password".



Step 5

Click the [Start...] button.

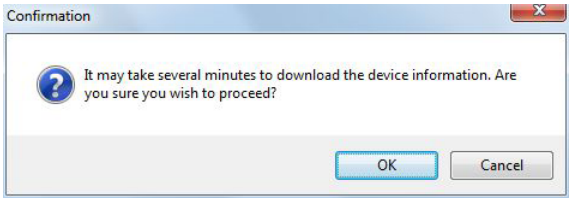


Important:

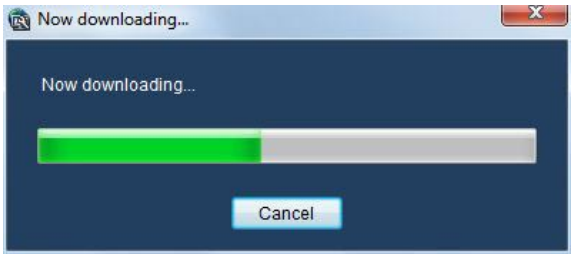
- When the settings of the setup menu of the camera are edited, download the camera information again.

Step 6

Click the [OK] button.



→ The downloading status window will be displayed. To cancel downloading the camera information, click the [Cancel] button on the displayed downloading status window.

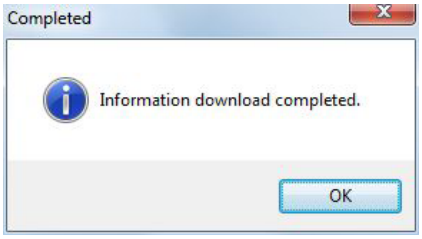


Step 7

The message window will be displayed when download process ended.

<When download of the camera information is successfully completed>

1. Click the [OK] button.

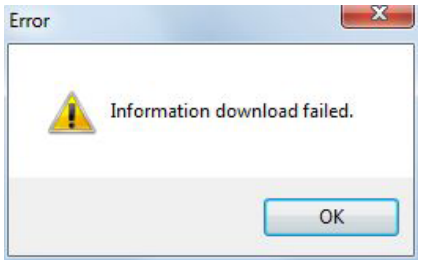


→ The confirmation window will close.

2. When the information has been downloaded from a stationary camera or PTZ camera, proceed to Step 8-1.
   When the information has been downloaded from a Fisheye camera, proceed to Step 8-2.

<When download of the camera information failed>

1. Click the [OK] button on the error message window and check if the information on the "Device registration" window has been edited correctly.



Note:

- Check if the entered device information is correct. When the information has been edited correctly, the connected device or the version of the connected device may not be compatible with this software. Refer to the "Compatible devices" section (☞ page 6) for further information.

2. Click the [OK] button.

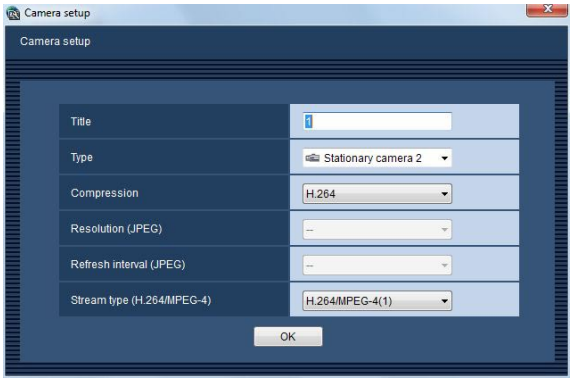
→ The error window will close.

3. When the device registration will be displayed again, confirm the settings.

4. Then, download the device information again.

Step 8-1

Click the [Setup...] button.
→ The "Camera setup" window will be displayed.



The following are descriptions about each item displayed on the "Camera setup" window of the camera.

■ Title

Enter the camera title.
When editing the camera title, enter up to 16 characters.
The following characters are unavailable for the camera title.
!$ % ' < = > @ [\ ] ^ _ ` { | } ~
Default: 1

■ Type

Indicates the type and the corresponding icon of the camera.
There are 19 types: Dome camera 1, Dome camera 2, Dome camera 3, Dome camera 4, Dome camera 5, Dome camera 6, Dome camera 7, Dome camera 8, Dome camera 9, Dome camera10, Dome camera11, Stationary camera 1, Stationary camera 2, Stationary camera 3, Stationary camera 4, Fisheye camera 1, Fisheye camera 2, Fisheye camera 3, Aero PTZ camera.
Default: Differs depending on the model number of the camera.

Note:
- The camera icon registered in the map will not change even when the camera type is changed.

■ Compression

Select the image compression type of the camera.
Only the MPEG-4 or H.264 cameras can be selected.
M-JPEG: Live images will be displayed in the M-JPEG format.
MPEG-4: Live images will be displayed in the MPEG-4 format.
H.264: Live images will be displayed in the H.264 format.
Default: "H.264" when the camera in use supports the H.264 format. When the camera in use is an MPEG-4 camera, the default is "MPEG-4". When the camera in use is not an MPEG-4 or H.264 camera, the default is "M-JPEG".

Note:
- Change the image compression type according to the setting of the camera in use.

■ Resolution (JPEG)

Select the resolution from the following.
The resolution setting can be configured only when "M-JPEG" is selected for "Compression".
Auto[†1]: When displaying images on 1-/3-/4-/6-screen or the large areas of 7-/10-/13-screen, images will fit to the display size of each area and be displayed with VGA (640x480) resolution. When displaying images on a screen other than the above, images will fit to the display size of each area and be displayed with QVGA (320x240) resolution.
160×120/160×90: Images whose resolution is 160×120 (160×90 in the 16:9 mode) will automatically be fit into the area regardless of the screen pattern.
QVGA: Images whose resolution is QVGA (320x240) will automatically be fit into the area regardless of the screen pattern.
QVGA/ 320x180[†5]: Images whose resolution is QVGA (320x240, 320x180 in the 16:9 mode) will automatically be fit into the area regardless of the screen pattern.
400x300: Images whose resolution is 400x300 will automatically be fit into the area regardless of the screen pattern.
VGA: Images whose resolution is VGA (640x480) will automatically be fit into the area regardless of the screen pattern.
VGA/ 640x360: Images whose resolution is VGA (640x480, 640x360 in the 16:9 mode) will automatically be fit into the area regardless of the screen pattern.
VGA/ 640×360/ 800×600: Images whose resolution is VGA (640x480, 640x360 in the 16:9 mode, 800x600 in the 4:3 (800x600) mode) will automatically be fit into the area regardless of the screen pattern.
800x600: Images whose resolution is 800x600 will automatically be fit into the area regardless of the screen pattern.
1280×960[†2]: Images whose resolution is 1280x960 will automatically be fit into the area regardless of the screen pattern.
1280×960/ 1280×720: Images whose resolution is 1280x960 (1280x720 in the 16:9 mode) will automatically be fit into the area regardless of the screen pattern.

1600x1200: Images whose resolution is 1600x1200 will automatically be fit into the area regardless of the screen pattern.
1920×1080†3: Images whose resolution is 1920x1080 will automatically be fit into the area regardless of the screen pattern.
2048×1536†4 †6: Images whose resolution is 2048x1536 will automatically be fit into the area regardless of the screen pattern.
Default: When "M-JPEG" is selected for "Compression", "Auto" is the default.
When "Compression" is other than "M-JPEG", "--" is the default.

†1: When the image capture mode is 2 megapixels or 3 megapixels, images whose resolution is VGA will be displayed regardless of the screen pattern.
†2: When "Partial" is selected for the scan mode of NP100x, the resolution will be 960x720.
†3: When the image capture mode is not 2 megapixels (in the 16:9 mode) or 3 megapixels (in the 16:9 mode), the image will not be displayed in the resolution set for the camera or an error may occur.
†4: When the image capture mode is not 3 megapixels (in the 4:3 mode), the image will not be displayed in the resolution set for the camera or an error may occur.
†5 If it is selected when "3 mega pixel" is set for "Image capture mode" of NP502 or NW502, an error will occur.
†6 If it is selected when "1.3 mega pixel" is set for "Image capture mode" of NP502 or NW502, an error will occur.

Note:
- For 6-series cameras, new 3-series cameras, WV-SPN531, new 5-series cameras, WV-SFN110, WV-SFV110, WV-SFN130, and WV-SFV130, if an image capture size that is not available for JPEG (1) - (3) is set, the one set for JPEG (1) will be applied for images.

■ Refresh interval (JPEG)

Determine the refresh interval of the camera (number of images to be refreshed per second).
The refresh interval setting can be configured only when "M-JPEG" is selected for "Compression".
Auto/0.1 ips/0.2 ips/0.3 ips/0.5 ips/1 ips/2 ips/3 ips/5 ips/10 ips/15 ips/All
When "Auto" is selected, an appropriate refresh interval will be applied according to the value set for "JPEG/VGA (Live/Playback)" on the "Performance" page.
When "All" is selected, the refresh interval will be "30 ips".
Default: When "M-JPEG" is selected for "Compression", "Auto" is the default.
When "Compression" is other than "M-JPEG", "--" is the default.

Note:
- The actual refresh interval may become slower than the set refresh interval depending on the network environment, the settings of the camera and the set maximum refresh interval on the "Performance" page.
- Refer to the "Set the maximum refresh interval [Performance]" section (☞ page 34) for how to set the maximum refresh interval.

■ Stream type (H.264/MPEG-4)

Select the stream type from the following.
The stream type setting can be set only when "H.264" or "MPEG-4" is selected for "Compression" on the camera supporting the H.264 format.
Auto: H.264/MPEG-4(1) stream will be applied when displaying images on 1-screen/left area of 3A-screen/right area of 3B-screen. For multi-screen other than the above, H.264/MPEG-4(2) stream will be applied.
When any of the following cameras is in use, each of H.264/MPEG-4(2) stream, H.264/MPEG-4(3) stream and H.264/MPEG-4(4) stream will be applied as follows respectively.
<6-series cameras, new 3-series cameras, WV-SPN531, new 5-series cameras, WV-SFN110, WV-SFV110, WV-SFN130 and WV-SFV130>
H.264/MPEG-4(2) stream will be applied to 4-screen and the large areas of 7-/10-/13-screen.
H.264/MPEG-4(3) stream will be applied to 6-/9-/16-/25-screen (WV-ASE202 is required) and the small areas of 3A-/3B-/7-/10-/13-screen.
H.264/MPEG-4(4) stream will be applied to 36-/49-/64-screen (WV-ASE202 is required).
H.264/MPEG-4(1): Always apply H.264/MPEG-4(1) for the stream type.
H.264/MPEG-4(2): Always apply H.264/MPEG-4(2) for the stream type.
H.264/MPEG-4(3)†1: Always apply H.264/MPEG-4(3) for the stream type.
H.264/MPEG-4(4)†1: Always apply H.264/MPEG-4(4) for the stream type.
Default: H.264/MPEG-4(1)

†1 Available only for 6-series cameras, new 3-series cameras, WV-SPN531, new 5-series cameras, WV-SFN110, WV-SFV110, WV-SFN130, and WV-SFV130.

Note:

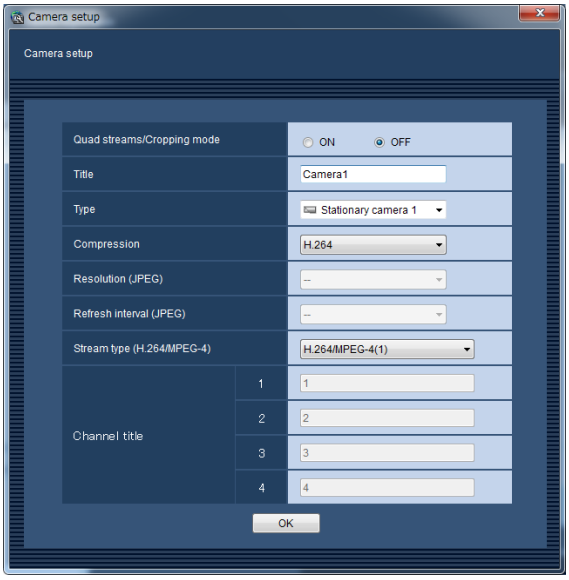
- Refer to the operating instructions of the camera in use for how to configure the settings for each steam type of "H.264/MPEG-4(1)", "H.264/MPEG-4(2)", "H.264/MPEG-4(3)" and "H.264/MPEG-4(4)".
- When selecting "AUTO", it is possible to reduce the network bandwidth consumption and lower the CPU load of the PC by performing the settings of "H.264/MPEG-4(1)" for 1-screen display, and the settings of "H.264/MPEG-4(2)", "H.264/MPEG-4(3)" and "H.264/MPEG-4(4)" for multi-screen display.

■ [OK] button

Click this button to close the "Camera setup" window.

Step 8-2

Click the [Setup...] button.
→ The "Camera setup" window will be displayed.



The details are as follows.

■ Quad streams/Cropping mode

Determine whether to use the quad streams or cropping mode.

Quad streams

The "Quad streams" is the function to calibrate the distortion of four fish-eye images in the ratio of 4:3 and allocate them to each stream number to display in the H.264 format. To activate this mode, it is necessary to select "VGA Quad streams" for the image capture mode of the camera in use.
ON: Use the "Quad streams".
OFF: Not to use the "Quad streams".

Cropping mode

The "Cropping mode" is the function to display four cropping images out of panorama image in the ratio of 16:9, and allocate them to each stream number to display in the H.264/JPEG format. To activate this mode, it is necessary to select "Cropping [16:9](30fps mode)" for the image capture mode of the camera in use.
ON: Use the "Cropping mode".
OFF: Not to use the "Cropping mode".

Default: OFF

Note:

- Change the stream mode according to the setting of the camera in use.

■ Title

Enter the camera title. When editing the camera title, enter up to 16 characters.
The following characters are unavailable for the camera title.
!$ % ' < = > @ [\ ] ^ _ ` { | } ~
Default: 1

■ Type

Indicates the type and the corresponding icon of the camera.
There are 19 types: Dome camera 1, Dome camera 2, Dome camera 3, Dome camera 4, Dome camera 5, Dome camera 6, Dome camera 7, Dome camera 8, Dome camera 9, Dome camera10, Dome camera11, Stationary camera 1, Stationary camera 2, Stationary camera 3, Stationary camera 4, Fisheye camera 1, Fisheye camera 2, Fisheye camera 3, Aero PTZ camera.
Default: Differs depending on the model number of the camera.

■ Compression

Select the image compression type of the camera.
M-JPEG: Live images will be displayed in the M-JPEG format.
H.264: Live images will be displayed in the H.264 format.
Default: "H.264" when the camera in use supports the H.264 format.

Note:

- Change the stream mode according to the setting of the camera in use.

■ Resolution (JPEG)

Select the resolution from the following.
The resolution setting can be configured only when "M-JPEG" is selected for "Compression".

Auto†1: When displaying images on 1-/3-/4-/6-screen or the large areas of 7-/10-/13-screen, images will fit to the display size of each area and be displayed with VGA (640x480) resolution. When displaying images on a screen other than the above, images will fit to the display size of each area and be displayed with QVGA (320x240) resolution.

QVGA/ 320x180: Images whose resolution is QVGA (320x240, 320x180 in the 16:9 mode) will automatically be fit into the area regardless of the screen pattern.

QVGA/ 320×180/ 320×320: Images whose resolution is QVGA(320x240, 320x180 in the 16:9 mode, 320×320 in the 1:1 mode) will automatically be fit into the area regardless of the screen pattern.

VGA/ 640x360: Images whose resolution is VGA (640x480, 640x360 in the 16:9 mode) will automatically be fit into the area regardless of the screen pattern.

VGA/ 640×360/ 640×640: Images whose resolution is QVGA(640×480, 640×360 in the 16:8 mode, 640×640 in the 1:1 mode) will automatically be fit into the area regardless of the screen pattern.

1280×960/1280×720: Images whose resolution is 1280x960 (1280x720 in the 16:9 mode) will automatically be fit into the area regardless of the screen pattern.

1280×960/ 1280×720/ 1280×1280: Images whose resolution is 1280×960 (1280×720 in the 16:9 mode, 1280×1280 in the 1:1 mode) will automatically be fit into the area regardless of the screen pattern.

1920×1080†2: Images whose resolution is 1920x1080 will automatically be fit into the area regardless of the screen pattern.

2048×1536†3: Images whose resolution is 2048x1536 will automatically be fit into the area regardless of the screen pattern.

2048×1536/2048×2048: Images whose resolution is 2048×1536 (2048×2048 in the 1:1 mode) will automatically be fit into the area regardless of the screen pattern.

2560×1920/2560×1440: Images whose resolution is 2560×1920 (2560×1440 in the 16:9 mode) will automatically be fit into the area regardless of the screen pattern.

2816×2816: Images whose resolution is 2816×2816 will automatically be fit into the area regardless of the screen pattern.

2992×2992: Images whose resolution is 2992×2992 will automatically be fit into the area regardless of the screen pattern.

3840×2160: Images whose resolution is 3840×2160 will automatically be fit into the area regardless of the screen pattern.

4000×3000: Images whose resolution is 4000×3000 will automatically be fit into the area regardless of the screen pattern.

Default: When "M-JPEG" is selected for "Compression", "Auto" is the default.
When "Compression" is other than "M-JPEG", "--" is the default.

†1 The display size differs depending on the image capture mode.

- 1-screen/left area of 3A-screen/right area of 3B-screen

Image capture mode	Display size
9M Fisheye	2992×2992
8M Fisheye	2816×2816
4M Fisheye	2048×2048
3M Fisheye	2048×1536
1.3M Fisheye	1280×960

- 4-/7-screen and the large areas of 10-/13-screen

Image capture mode	Display size
9M Fisheye	1280×1280
8M Fisheye	1280×1280
4M Fisheye	1280×1280
3M Fisheye	2048×1536
1.3M Fisheye	1280×960

- Multi-screen other than the above

Image capture mode	Display size
9M Fisheye	320×320
8M Fisheye	320×320
4M Fisheye	320×320
3M Fisheye	2048×1536
1.3M Fisheye	320×240

†2 If the "Image capture mode" is set other than "2M Double Panorama [16:9]", "2M Panorama [16:9]" or "Double panorama", "Panorama", the image capture size may be different than the setting, or an error may occur.

†3 If the "Image capture mode" is set other than "3M Fisheye [4:3]", "Quad PTZ" or "Single PTZ", the image capture size may be different than the setting, or an error may occur.

Note:

- For 9M Fisheye cameras and 7-series cameras, if an image capture size that is not available for JPEG (1) or JPEG (2) is set, the one set for JPEG (1) (if JPEG (1) is not available, JPEG (2)) will be applied for images.

■ Refresh interval (JPEG)

Determine the refresh interval of the camera (number of images to be refreshed per second). The refresh interval setting can be configured only when "M-JPEG" is selected for "Compression".
Auto/0.1 ips/0.2 ips/0.3 ips/0.5 ips/1 ips/2 ips/3 ips/5 ips/10 ips/15 ips/All
When "Auto" is selected, an appropriate refresh interval will be applied according to the value set for "JPEG/VGA (Live/Playback)" on the "Performance" page.
When "All" is selected, the refresh interval will be "30 ips".
Default: When "M-JPEG" is selected for "Compression", "Auto" is the default.
When "Compression" is other than "M-JPEG", "--" is the default.

Note:

- The actual refresh interval may become slower than the set refresh interval depending on the network environment, the settings of the camera and the set maximum refresh interval on the "Performance" page.
- Refer to the "Set the maximum refresh interval [Performance]" section (☞ page 34) for how to set the maximum refresh interval.

■ Stream type (H.264/MPEG-4)

Select the stream type from the following.
The stream type can be configured only when "H.264" is selected for "Compression".
Auto: H.264/MPEG-4(1) stream will be applied when displaying images on 1-screen/left area of 3A-screen/right area of 3B-screen. For multi-screen other than the above, H.264/MPEG-4(2) stream will be applied.
When any of the 7-series cameras (4 mega pixel mode) is in use, each of H.264/MPEG-4(2) stream, H.264/MPEG-4(4) stream and H.264/MPEG-4(4) stream will be applied as follows respectively.
H.264/MPEG-4(2) stream will be applied to 4-screen and the large areas of 7-/10-/13-screen.
H.264/MPEG-4(3) stream will be applied to 6-/9-/16-/25-screen (WV-ASE202 is required) and the small areas of 3A-/3B-/7-/10-/13-screen.
H.264/MPEG-4(4) stream will be applied to 36-/49-/64-screen (WV-ASE202 is required).
H.264/MPEG-4(1): Always apply H.264/MPEG-4(1) for the stream type.
H.264/MPEG-4(2): Always apply H.264/MPEG-4(2) for the stream type.
Default: H.264/MPEG-4(1)

Note:

- Refer to the operating instructions of the camera in use for how to configure the settings for the steam type of "H.264/MPEG-4(1)" and "H.264/MPEG-4(2)".
- When selecting "AUTO", it is possible to eliminate the network bandwidth and lower the CPU load of the PC by performing the settings of H.264/MPEG-4 (1) for 1-screen display or by performing the settings of H.264/MPEG-4 (2) for multi-screen display.
- When "OFF" is selected for "Quad streams/Cropping mode", "AUTO" can be selected.

■ Channel title

Enter the channel title of each camera.
The channel title setting can be changed only when "ON" is selected for "Quad streams/Cropping mode".
When editing the channel title, enter up to 16 characters. The following characters are unavailable for the camera title.
!$ % ' < = > @ [\ ] ^ _ ` { | } ~
Default: Channel number

■ [OK] button

Click this button to close the "Camera setup" window.

Step 9

Click the [OK] button after completing the settings.
→ The "Camera setup" window will close.

Note:

- The edited settings will not be saved and applied even when the "Camera setup" window is closed by clicking the [OK] button.
- To save and apply the settings, click the [Set] button on the "Device registration" window after closing the "Camera setup" window.

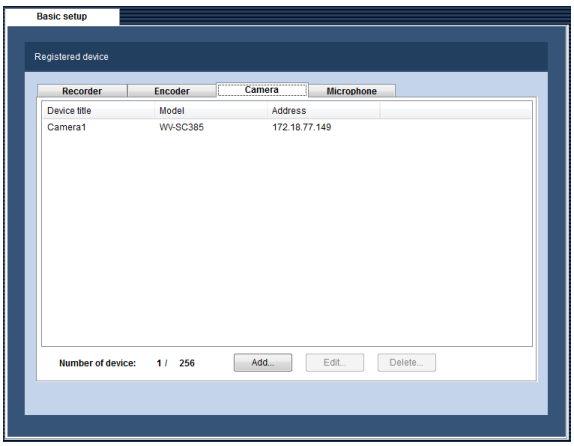
Step 10

Click the [Set] button on the "Device registration" window.
→ The "Device registration" window will close and the settings will be saved and applied.
The registered camera will be displayed in the list of the registered devices.

Edit the registered camera information [Basic setup]

Step 1

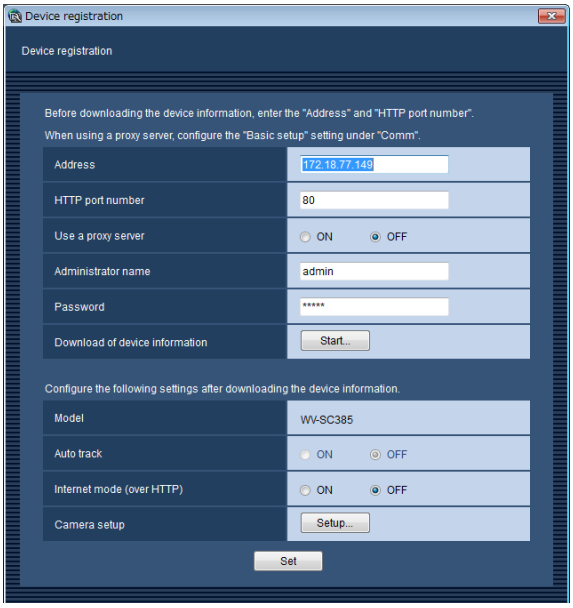
Display the "Registered device" page of the camera. (☞ page 56)



Step 2

Select the camera whose information is to be edited from the list of the registered devices, and then click the [Edit...] button.

→ The "Device registration" window will be displayed.



Step 3

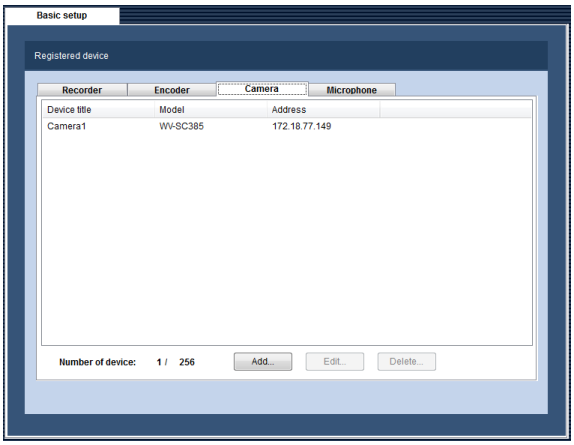
Click the [Set] button after editing the information. Refer to the "Register a camera [Basic setup]" section (☞ page 56) for further information.

→ The "Device registration" window will close and the settings will be saved and applied.

Delete the registered camera [Basic setup]

Step 1

Display the "Registered device" page of the camera. (☞ page 56)



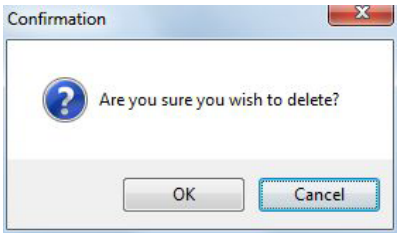
Step 2

Select the camera to be deleted from the list of the registered devices.

Step 3

Click the [Delete...] button.

→ The confirmation window will be displayed.



Step 4

Click the [OK] button.

→ The device information of the selected camera will be deleted.

Register a microphone [Basic setup]

Note:

- Before adding a microphone, execute "Register a camera [Basic setup]" (☞ page 56) after configuring the settings of the camera and microphone (including the linked camera) by referring to their operating instructions.

Step 1

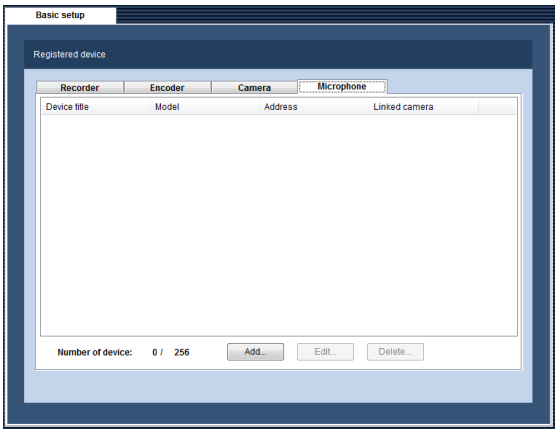
Click the [Device mng.] button.

→ The "Registered device" window will be displayed.

Step 2

Click the [Microphone] tab.

→ The "Registered device" window of the microphone will be displayed.



The following are descriptions about each item displayed on the "Registered device" window of the microphone.

■ Registered device

Titles, model numbers and addresses, linked cameras of the registered microphones will be displayed in list form.

■ Number of device

Number of the registered microphones will be displayed.

■ [Add...] button

Click this button to display the "Device registration" window.

■ [Edit...] button

The "Device registration" window of the microphone selected from the list will be displayed.

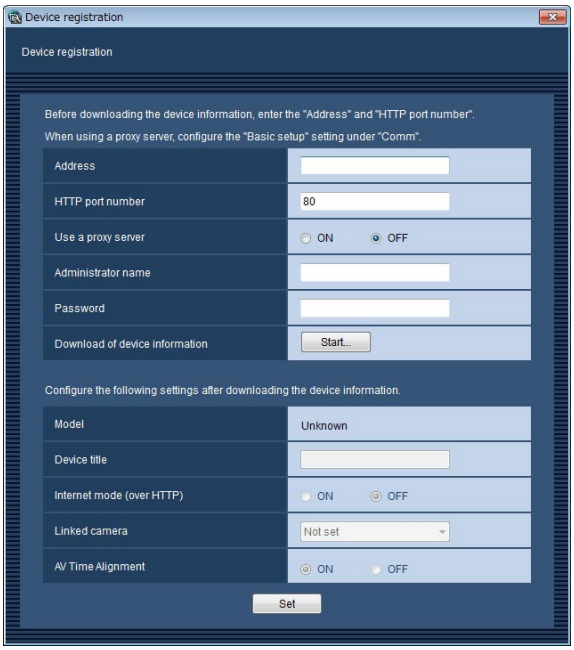
■ [Delete...] button

The microphone selected from the list will be deleted.

Step 3

Click the [Add...] button.

→ The "Device registration" window will be displayed.



Note:

- The [Add...] button will become unavailable when reached the maximum number of microphone registration.

The following are descriptions about each item displayed on the "Device registration" window of the microphone.

■ Address

Enter the IP address of the microphone.
Enter the address using up to 255 alphanumeric characters including "." (dot) and "-" (hyphen).

■ HTTP port number

Enter a number among the following for the HTTP port number.
1 - 65535
Default: 80

■ Use a proxy server

Determine whether to use or not use a proxy server to connect the microphone.
ON: Use a proxy server
OFF: Not use a proxy server
Default: OFF

Note:
- The proxy server address can be set on the [Basic setup] tab of the "Comm" page (☞ page 111).

■ Administrator name

Enter the administrator name registered in the microphone. Enter 1 - 32 characters for the administrator name. The following characters, space (blank) and 2-byte characters are unavailable.
" & : ; \

■ Password

Enter the administrator password registered in the microphone. The entered password will be displayed as "*". Enter 4 - 32 characters for the password. The following characters, space (blank) and 2-byte characters are unavailable.
" &

■ [Start...] button

Device information will be downloaded based on the settings of "Address", "HTTP port number" and "Use a proxy server".

■ Model

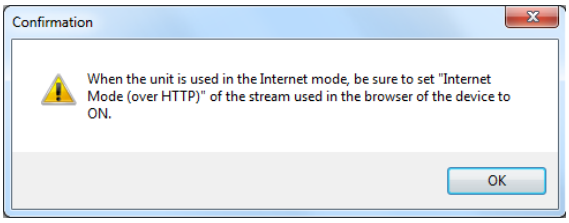
The model number of the microphone contained in the device information downloaded from the microphone will be displayed.
"Unknown" will be displayed when device information is not downloaded yet.

■ Device title

Enter up to 16 characters for the microphone title.
The following characters are unavailable.
!$ % ' < = > @ [\ ] ^ _ ` { | } ~

■ Internet mode (over HTTP)

Select HTTP port or UDP port to use for audio reception.
ON: Audio will be received using the HTTP port.
OFF: Audio will be received using the UDP port.
Default: OFF
If "ON" is selected for "Internet mode (over HTTP)", the following dialog box will be displayed when the [Set] button is clicked. When the Internet mode is used, select "ON" for "Internet mode (over HTTP)" on the microphone.



■ Linked camera

The title of the linked camera contained in the device information downloaded from the microphone will be displayed. "Not set" will be displayed when device information is not downloaded yet. When the linked camera is to be changed, select a device from the list.

■ AV Time Alignment

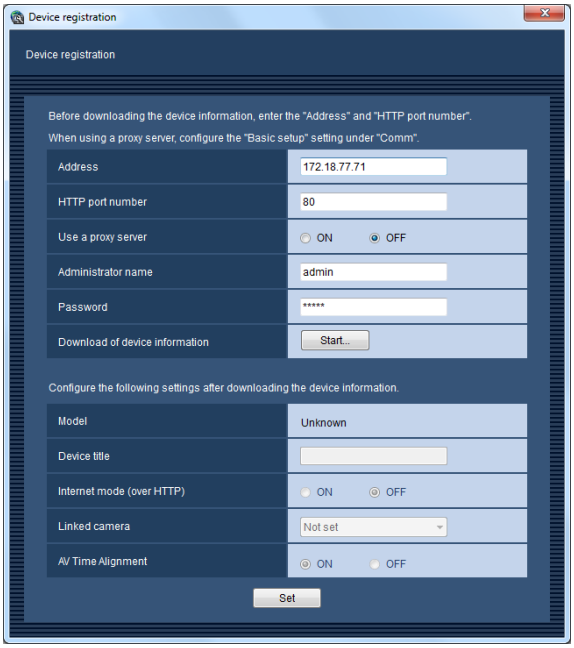
Select to determine whether or not to use the AV time alignment.
ON: Use the AV time alignment.
OFF: Not use the AV time alignment.
Default: ON

■ [Set] button

The configured settings will be saved.

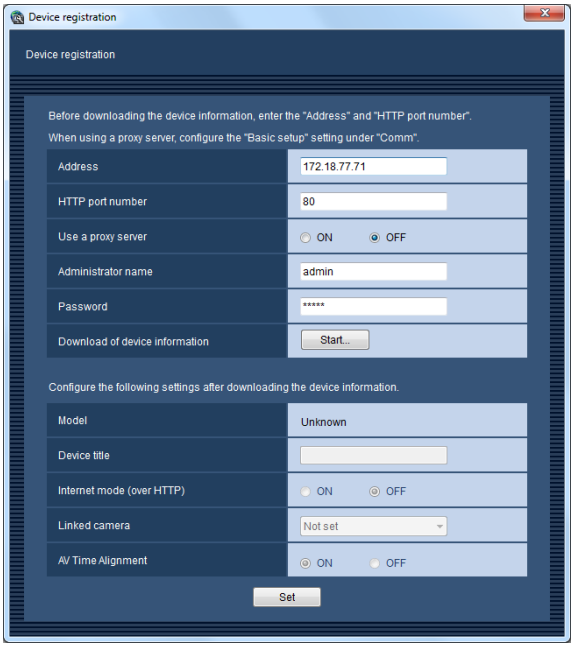
Step 4

Complete the settings of "Address", "HTTP port number", "Use a proxy server", "Administrator name" and "Password".



Step 5

Click the [Start...] button.

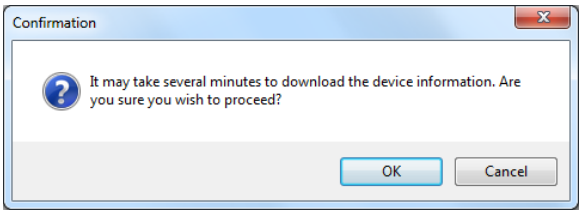


Important:

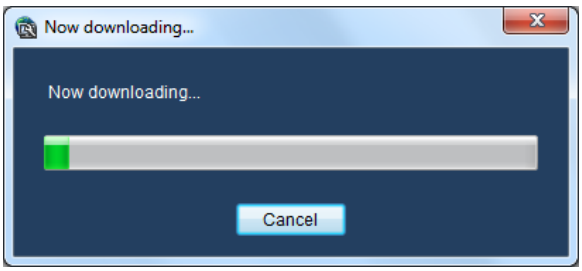
- When the settings of the setup menu of the microphone are edited, download device information again.

Step 6

Click the [OK] button.



→ The downloading status window will be displayed. To cancel downloading the device information, click the [Cancel] button on the displayed downloading status window.

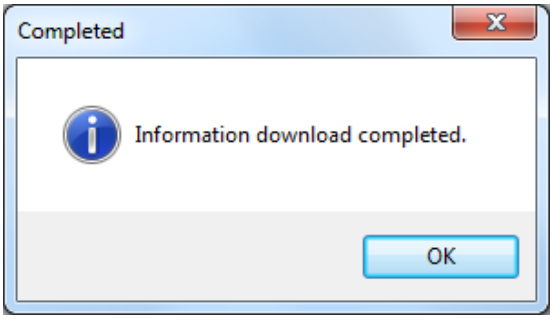


Step 7

Confirm the displayed messages and proceed to the next step.

<When download of the device information is successfully completed>

1. Click the [OK] button.

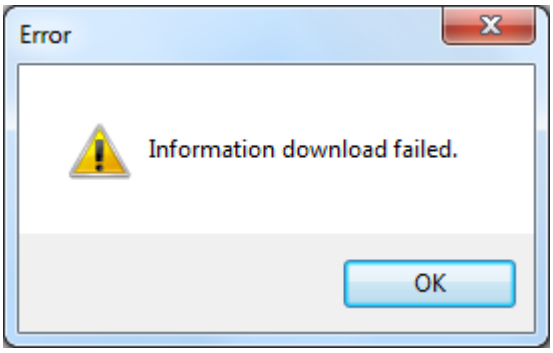


→ The confirmation window will close.

2. Go to step 8.

<When download of the device information failed>

1. Confirm the content of the message indicated in the window.



Note:

- Check if the entered device information is correct. When the information has been edited correctly, the connected device or the version of the connected device may not be compatible with this software. Refer to the "Compatible devices" section (☞ page 6) for further information.

2. Click the [OK] button.
   → The error window will close.

3. When the device registration will be displayed again, confirm the settings.

4. Then, download the device information again.

Step 8

Click the [Set] button after editing the information.

→ The "Device registration" window will close and the settings will be saved and applied. The registered microphone will be displayed in the list of the registered devices.

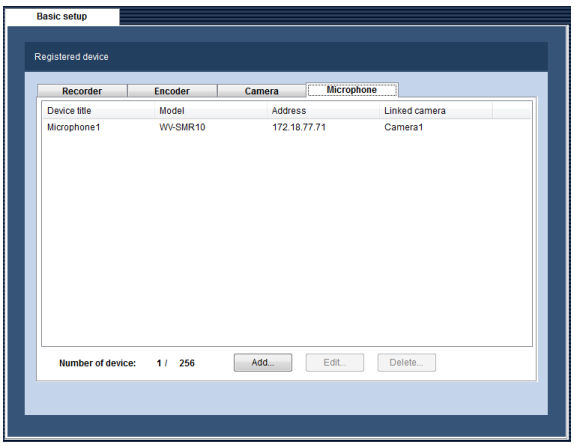
Note:

- When the camera and the microphone are configured to be linked, audio from the microphone will be used. When they are not to be linked, audio from the camera will be used.
- When the camera set as the linked camera is deleted, the setting of the linked camera will automatically return to "Not set". Register the camera again, and then download the microphone information again.
- When "ON" is selected for "Quad streams/ Cropping mode" of the linked camera, the linkage setting will automatically be deleted.
- The "Audio" setting (☞ page 24) will automatically be switched to "ON".

Edit the registered microphone information [Basic setup]

Step 1

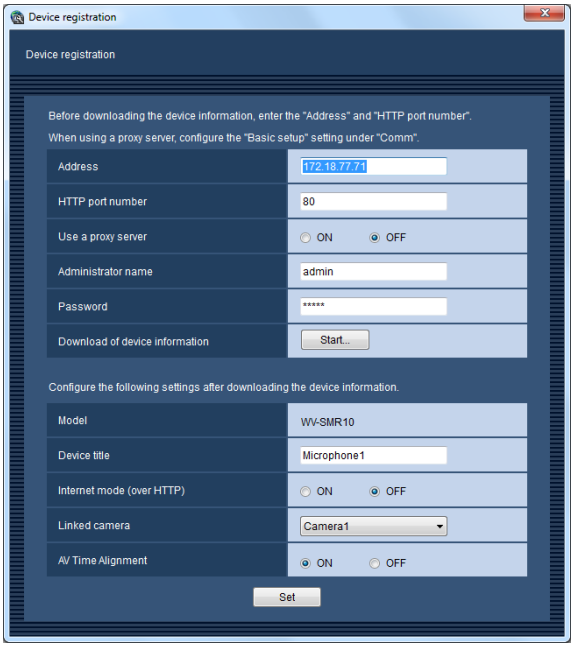
Display the "Registered device" page of the microphone. (☞ page 65)



Step 2

Select the microphone whose information is to be edited from the list of the registered devices, and then click the [Edit...] button.

→ The "Device registration" window will be displayed.



Step 3

Click the [Set] button after editing the information. Refer to the "Register a microphone [Basic setup]" section (☞ page 65) for further information.

→ The "Device registration" window will close and the settings will be saved and applied.

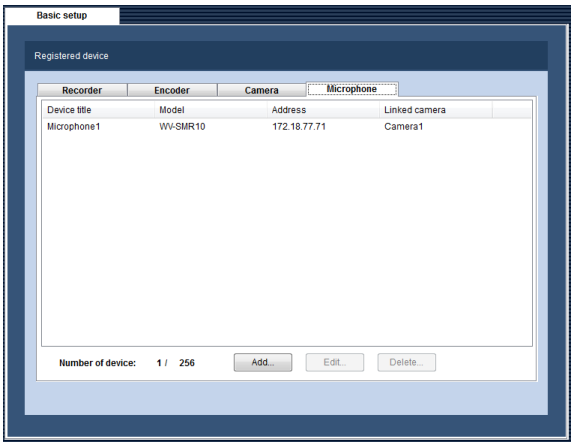
Note:

- The "Audio" setting (☞ page 24) will automatically be switched to "ON".

Delete the registered microphone [Basic setup]

Step 1

Display the "Registered device" page of the microphone. (☞ page 65)



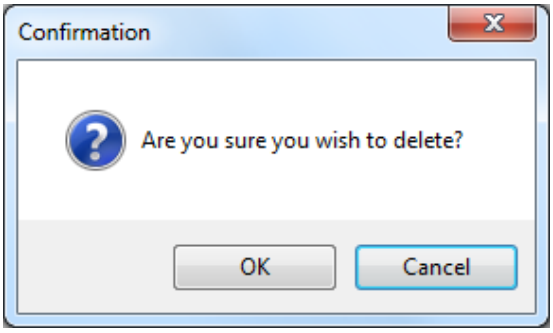
Step 2

Select the microphone to be deleted from the list of the registered devices.

Step 3

Click the [Delete...] button.

→ The deletion confirmation window will be displayed.



Step 4

Click the [OK] button.

→ The device information will be deleted.

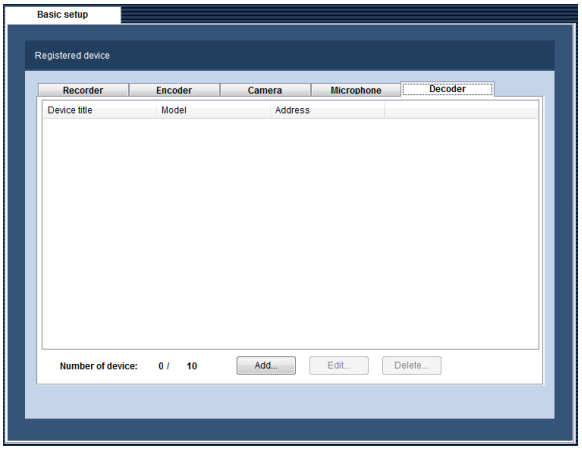
Register a decoder [Basic setup]

Step 1

Click the [Device mng.] button.
→ The "Registered device" window will be displayed.

Step 2

Click the [Decoder] tab.
→ The "Registered device" window of the decoder will be displayed.



The details are as follows.

Registered device

Titles, model numbers and addresses of the registered decoders will be displayed in list form.

■ Number of device:

Number of the registered decoders will be displayed.

■ [Add...] button

The "Device registration" window will be displayed.

■ [Edit...] button

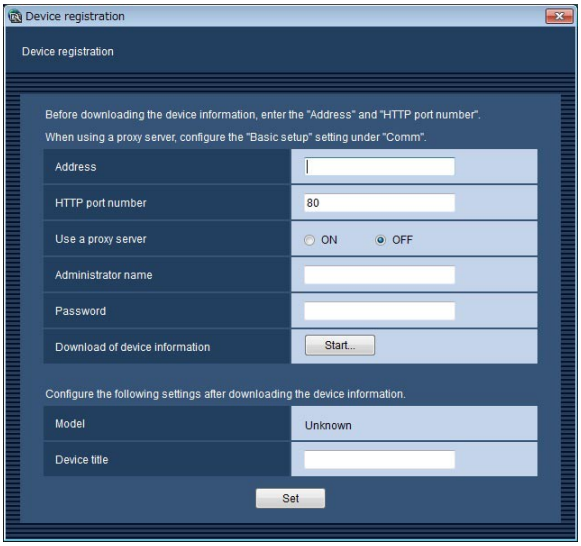
The "Device registration" window of the decoder selected from the list will be displayed.

■ [Delete...] button

The decoder selected from the list will be deleted.

Step 3

Click the [Add…] button.
→ The "Device registration" window will be displayed.



Note:

- The [Add...] button will become unavailable when reached the maximum number of decoder registration.

The details are as follows.

■ Address

Enter the IP address of the decoder. Enter the address using up to 255 alphanumeric characters including "." (dot) and "-" (hyphen).

■ HTTP port number

Enter a number among the following for the HTTP port number.
Between "1" and "65535"
Default: 80

■ Use a proxy server

Determine whether to use a proxy server to connect the decoder or not.
ON: Use a proxy server
OFF: Not use a proxy server
Default: OFF

Note:

- The proxy server address can be set on the [Basic setup] tab of the "Comm" page (☞ page 111).

■ Administrator name

Enter the administrator name registered in the decoder. Enter 1 - 32 alphanumeric characters for the administrator name.

■ Password

Enter the administrator password registered in the decoder. The entered password will be displayed as "*". Enter 4 - 32 alphanumeric characters for the password.

■ [Start...] button

Device information will be downloaded based on the settings of "Address", "HTTP port number" and "Use a proxy server".

■ Model

The model number contained in the downloaded decoder information will be displayed. "Unknown" will be displayed when decoder information is not downloaded yet.

■ Device title

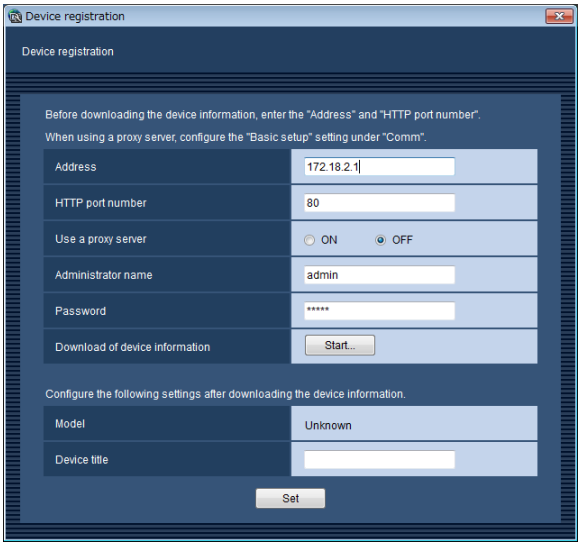
Enter the decoder title. Enter up to 16 characters for the device title. The following characters are unavailable for the recorder title.
! $ % ' < = > @ [\ ] ^ _ ` { | } ~

■ [Set] button

The edited settings will be saved and applied.

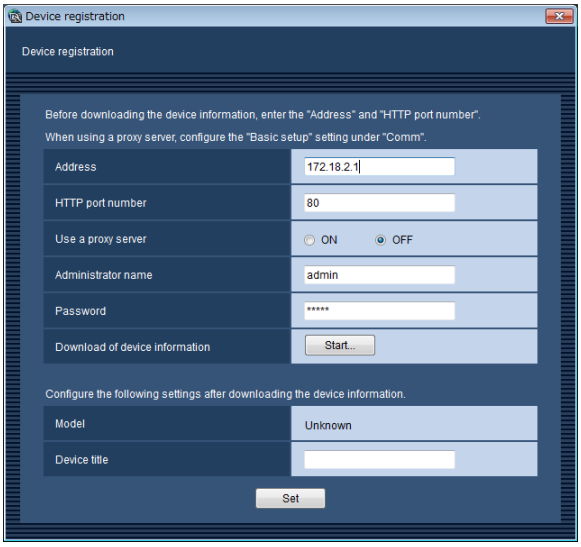
Step 4

Complete the settings of "Address", "HTTP port number", "Use a proxy server", "Administrator name" and "Password".



Step 5

Click the [Start...] button.

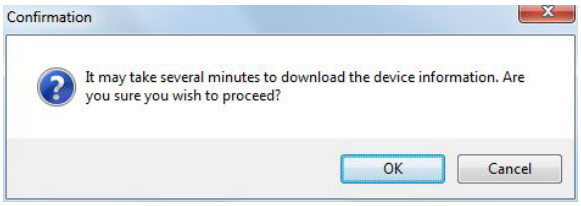


Important:

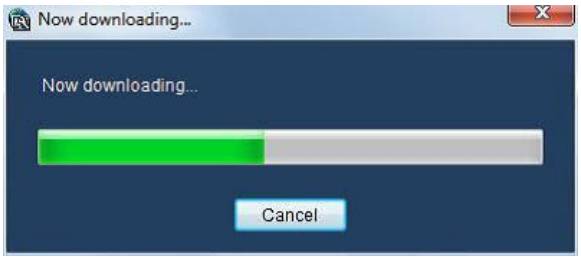
- When the settings of the setup menu of the decoder are edited, download the decoder information again.

Step 6

Click the [OK] button.



→ The downloading status window will be displayed. To cancel downloading the decoder information, click the [Cancel] button on the displayed downloading status window.

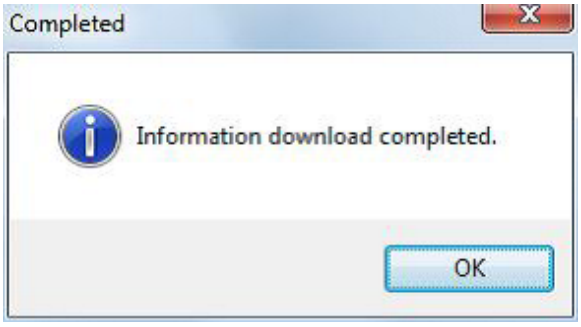


Step 7

The message window will be displayed when download process ended.

<When download of the device information is successfully completed>

1. Click the [OK] button.



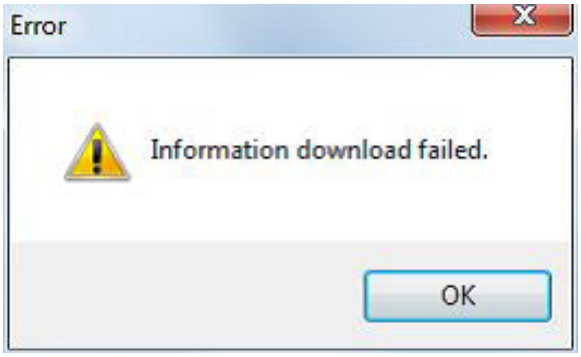
→ The confirmation window will close.

2. Go to step 8.

<When download of the device information failed>

The error message window will be displayed.

1. Confirm the content of the message indicated in the window.



Note:

- Check if the entered device information is correct. When the information has been edited correctly, the connected device or the version of the connected device may be not compatible with this software. Refer to the "Compatible devices" section (☞ page 6) for further information.

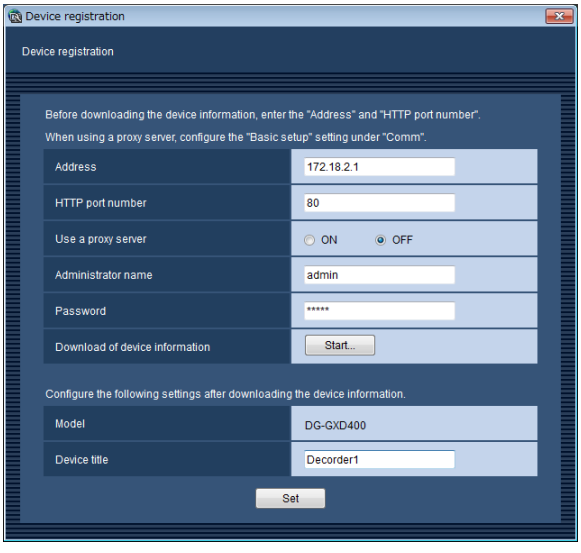
2. Click the [OK] button.
→ The error window will close.

3. When the device registration will be displayed again, confirm the settings.

4. Then, download the device information again.

Step 8

Enter for "Device title".



Step 9

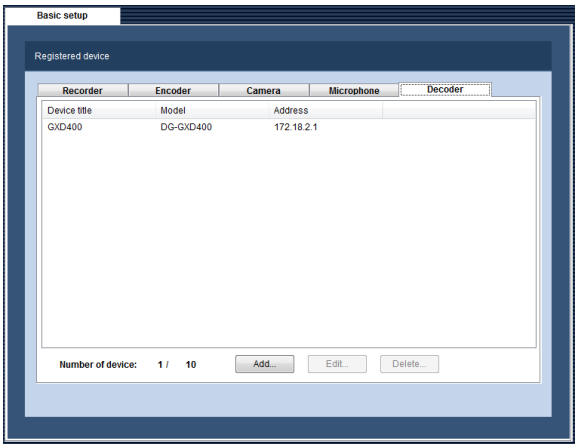
Click the [Set] button on the "Device registration" window.

→ The "Device registration" window will close and the settings will be saved and applied. The registered decoder will be displayed in the list of the registered device.

Edit the registered decoder information [Basic setup]

Step 1

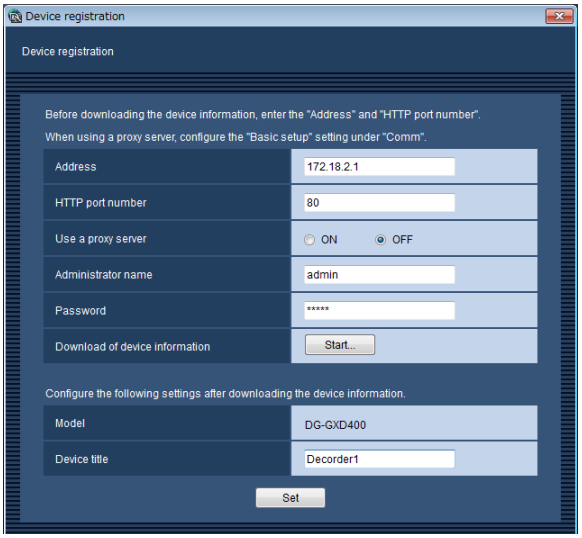
Display the "Registered device" window of the decoder. (☞ Page 70)



Step 2

Select the decoder whose information is to be edited from the list of the registered devices, and then click the [Edit...] button.

→ The "Device registration" window will be displayed.



Step 3

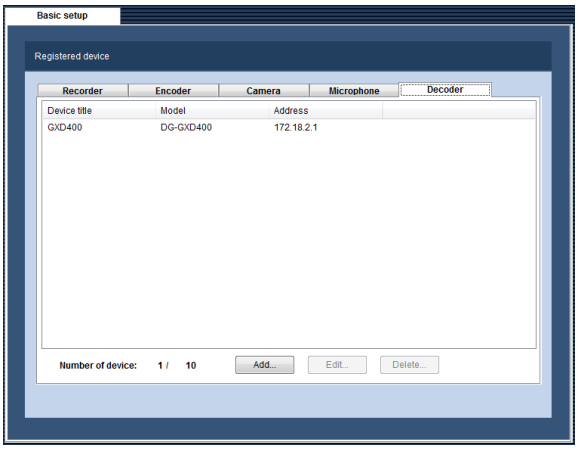
Click the [Set] button after editing the information. Refer to the "Register a decoder [Basic setup]" section (☞ page 70) for further information.

→ The "Device registration" window will close and the settings will be saved and applied.

Delete the registered decoder [Basic setup]

Step 1

Display the "Registered device" window of the decoder. (☞ Page 70)



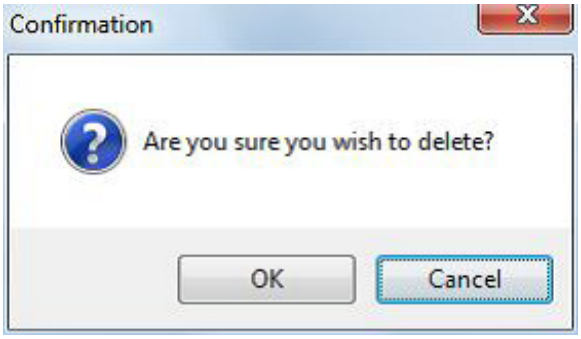
Step 2

Select the decoder to be deleted from the list of the registered devices.

Step 3

Click the [Delete...] button.

→ The confirmation window will be displayed.



Step 4

Click the [OK] button.

→ The device information of the selected decoder will be deleted.

Settings relating to the user management

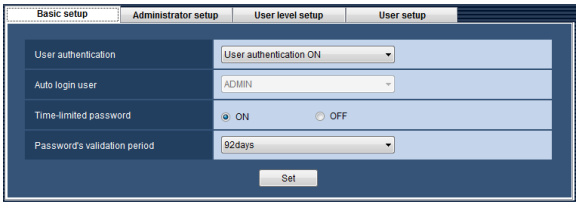
The settings relating to the user management such as, the user authentication setting, addition of a user, edit/deletion of user information, the user level setting, etc. can be configured.

User authentication, auto login user, password's validation period setting [Basic setup]

Click the [User mng.] button, and then click the [Basic setup] tab to display the "Basic setup" page.
The following settings can be configured.

- User authentication ON/OFF
- Auto login ON/OFF
- Time-limited password ON/OFF
- Password's validation period

When "ON" is selected for "Time-limited password", set the password's validation period.



■ User authentication

Determine whether to require the user authentication for login or not.
User authentication ON: Require the user authentication for login
User authentication OFF (Auto log-in): Not require the user authentication for login
Single Sign-On: Logs in automatically by a domain user who logged on to Windows.
Default: User authentication ON

Note:

- Single Sign-On function is not available for the local Windows user. Log on to the domain by a LDAP user, or by a user who belongs to a LDAP group after registering a LDAP user or a LDAP group.

■ Auto login user

When "User authentication OFF (Auto log-in)" is selected for "User authentication", select the user who can log in as the auto login user.
Auto log-in user can be selected from already registered local users and the administrators.
When the user registered as the auto login user is deleted, the administrator will automatically be set as the auto login user.
Default: ADMIN

■ Time-limited password

Determine whether to set the password's validation period or not.
When "ON" is selected for "Time-limited password" and the set validation period has passed, the "Password change" window will be displayed each time trying to log in to the operation software.
ON: Set the validation period for the password.
OFF: Not set the validation period for the password.
Default: ON

■ Password's validation period

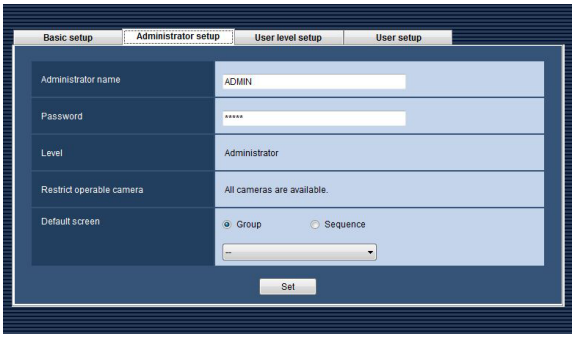
Select the validation period for the password from the following. The password's validation period can be selected only when "ON" is selected for "Time-limited password".
31 days/92 days/184 days
Default: 92 days

■ [Set] button

The edited settings will be saved and applied.

Settings relating to the administrator [Administrator setup]

Click the [User mng.] button, and then click the [Administrator setup] tab to display the "Administrator setup" page.
Configure the settings relating to the administrator on this page.



■ Administrator name

Enter 4 - 14 alphanumeric characters for the administrator name.
The administrator name already in use cannot be used.
Default: ADMIN

■ Password

Enter 4 - 8 alphanumeric characters for the password.
Default: 12345

Important:
- To enhance the security, change the password periodically.

■ Level

The user level will be displayed. The user level of the administrator is "Administrator" and it is impossible to change.

■ Restrict operable camera

"All cameras are available." will be displayed.
It is impossible to change the operable cameras for the administrator.

■ Default screen

Select "Group" or "Sequence" to determine how to display live images just after login.
Group: The group display will start to display live images just after login.
Sequence: The sequence display will start to display live images just after login.
Default: Group

<When "Group" is selected>
It is possible to select the group registered on the "Group regist." window. When no group is registered, only "--" will be displayed in the drop-down list. In this case, a black screen will be displayed in the image display area of the operation window just after login.
Refer to the "Register a group [Group]" section (☞ page 86) for how to register groups.
Default: --

<When "Sequence" is selected>
It is possible to select the sequence registered on the "Sequence regist." window. When no sequence is registered, only "--" will be displayed in the drop-down list. In this case, a black screen will be displayed in the image display area of the operation window just after login.
Refer to the "Register a sequence [Sequence]" section (☞ page 89) for how to register sequences.
Default: --

Note:
- The sequence display will function with the sequence dwell time configured using the operation software.

■ [Set] button

The edited settings will be saved and applied.

Apply the user level for each user [User level setup]

Click the [User mng.] button, and then click the [User level setup] tab to display the "User level setup" page.
The administrator can determine operable functions for the registered users by applying the user level.
There are 5 levels for the user level.
Users whose user level is "LV1" can operate any functions that can be restricted. The administrator can determine operable functions for "LV2" - "LV5".

Important:
- Operable functions for "LV1" cannot be changed.

Step 1

Check the checkboxes to determine operable functions for each user level.

→ Functions with the checked checkboxes will become operable.
Refer to the "Functions that can be restricted" section (☞ page 78) for the functions that can be restricted.

Step 2

Click the [Set] button after determining the operable functions for each user level.

→ The settings will be saved and applied.

Functions that can be restricted

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

Function	Description
Display the current settings	It is possible to display the current settings configured using the setup software.
Alarm reset/error reset	It is possible to cancel the alarm status and the error status of the recorder.
Print/Save as JPEG file	It is possible to print/save (as a JPEG file) the displayed live image or recorded image.
File conversion	It is possible to convert an n3r file downloaded from the recorder into an mp4 file.
Download	It is possible to manually download recorded images.
Manual recording	It is possible to start/stop recording manually.
Recorder control	It is possible to operate the recorder including searching, playing recorded images on the recorder.
Preset position registration	It is possible to register the preset positions.
Operation of SD memory card	It is possible to operate the SD memory card in the camera.
Camera control	It is possible to operate the cameras.
Mic setting	It is possible to operate the microphone audio collection.
Audio (Transmission)	It is possible to transmit audio (from the PC to the camera).
Display the alarm log	It is possible to display the alarm logs.
Display the device error log	It is possible to display the device error logs.
Display the network error log	It is possible to display the network error logs.
Face registration†1	Person information/face images can be registered.
Display alarm/Display face search result†1	Alarm can be checked. Face search can be performed.
Delete face alarm†1	Delete face matching alarm in the face search monitor.
Output a list of searched face alarms†1	Output alarm search result in HTML in the face search monitor.
People Search†2	People Search can be performed.
Output People Search result in HTML file†2	People search result can be output in HTML on the face search monitor.
Visibility enhancement parameter setting†3	The detailed parameters for Visibility enhancement can be configured.

Important:

- "Display the current settings" is available only for users whose user level is "LV1".
- When making "Camera control" to non-selected state, "Preset position registration" and "Operation of SD memory card" will automatically turn to non-selected state.
- When making "Recorder control" to non-selected state, "Manual recording" will automatically turn to non-selected state.
- When making "Camera control" and "Recorder control" to non-selected state, "Mic setting" will automatically turn to non-selected state.
- When selecting "Mic setting", "Camera control" and "Recorder control" will automatically turn to selected state.
- When "Output a face alarm search list" is selected, "Display alarm/Display face search result" will be selected automatically.
- When "People Search" is selected, "Display alarm/Display face search result" will be selected automatically.
- When "Output People Search result in HTML file" is selected, "Display alarm/Display face search result" and "People Search" will be selected automatically.

Default:

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

†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.

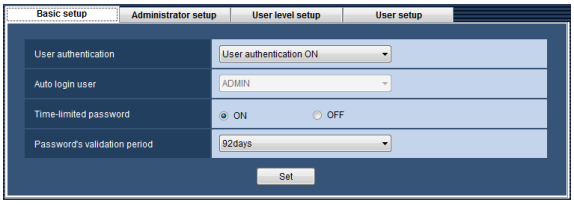
Manage the registered users [User setup]

Register users who can operate this software and edit/delete the registered user information.
Up to 32 users can be registered in total of local user, LDAP user, and LDAP group.

Register a user

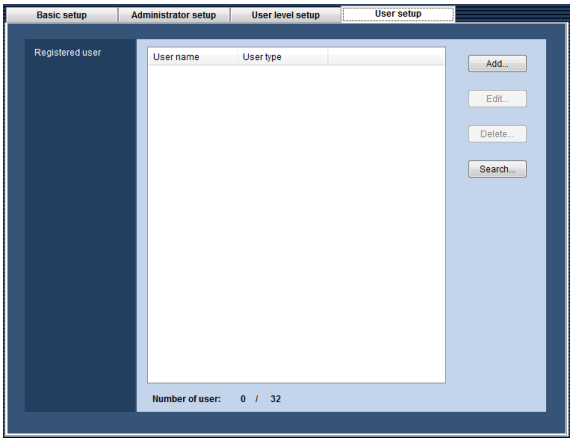
Step 1

Click the [User mng.] button.



Step 2

Click the [User setup] tab.
The "User setup" page will be displayed.



The following are descriptions about each item displayed on the "User setup" page.

■ Registered user

Displays registered user name and user type (local user, LDAP user, and LDAP group) in a list.

■ Number of user

Number of the registered users will be displayed.

■ [Add...] button

The "User regist." window will be displayed.

■ [Edit...] button

The "User regist." window of the user selected from the list will be displayed.

■ [Delete...] button

The user selected from the list will be deleted.

■ [Search...] button

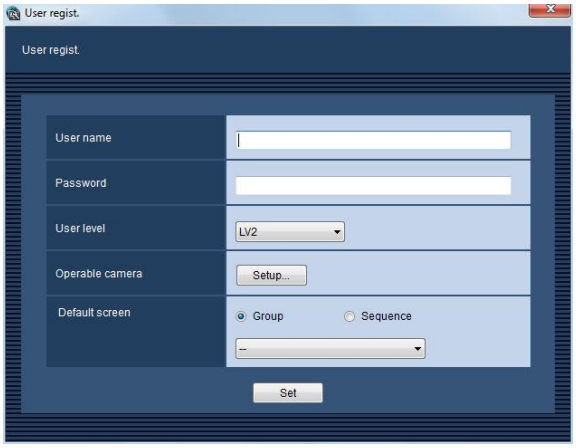
Displays the “User/Group selection” screen.

Note:
- This button is disabled when "Off" is set for "Directory Service".

Step 3

<To add local user>

Click the [Add...] button.
→ The "User regist." window will be displayed.



Note:
- The [Add...] button will become unavailable when reached the maximum number of the user registration (32 users).

The following are descriptions about each item displayed on the "User setup" page.

■ User name

Enter 4 - 14 alphanumeric characters for the user name.
The user name already in use cannot be entered.

■ Password

Enter 4 - 8 alphanumeric characters for the password.

Note:
- To enhance the security, change the password periodically.

■ User level

Select the user level to be applied to the selected user from the following.
LV1/LV2/LV3/LV4/LV5
Default: LV2

■ [Setup...] button

When this button is clicked, the "Operable camera setup" window will be displayed. Refer to the "Determine operable cameras" section (☞ page 84) for how to determine the operable cameras.

■ Default screen

Select "Group" or "Sequence" to determine how to display live images just after login.
Group: The group display will start to display live images just after login.
Sequence: The sequence display will start to display live images just after login.
Default: Group

<When "Group" is selected>
It is possible to select the group registered on the "Group regist." window (☞ page 86). When no group is registered, only "--" will be displayed in the drop-down list. In this case, a black screen will be displayed in the image display area of the operation window just after login.
Refer to the "Register a group [Group]" section (☞ page 86) for how to register groups.
Default: --

<When "Sequence" is selected>
It is possible to select the sequence registered on the "Sequence regist." window (☞ page 89). When no sequence is registered, only "--" will be displayed in the drop-down list. In this case, a black screen will be displayed in the image display area of the operation window just after login.
Refer to the "Register a sequence [Sequence]" section (☞ page 89) for how to register sequences.
Default: --

Note:
- The sequence display will function with the sequence dwell time configured using the operation software.

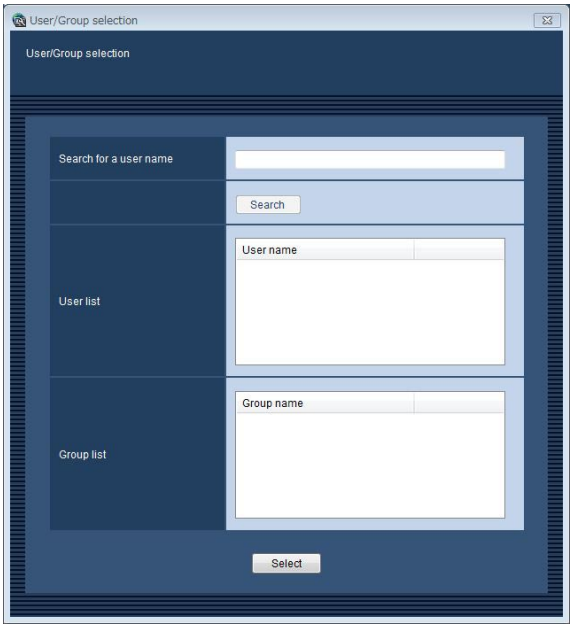
■ [Set] button

The edited settings will be saved and applied.

<To add LDAP user or LDAP group>

1. Click the [Search...] button.

→ The "User/Group selection" window will be displayed.



Note:
- The [Search...] button will become unavailable when reached the maximum number of the user registration (32 users).

The details are as follows.

■ Search for a user name

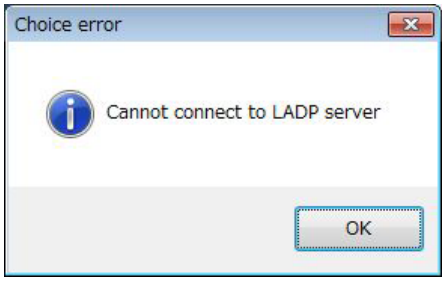
Enter a character string for searching. Wild card can be used.

■ [Search] button

Start searching specific character string in the Active Directory.

Note:
- When the "Search for a user name" is blank, the button is disabled.

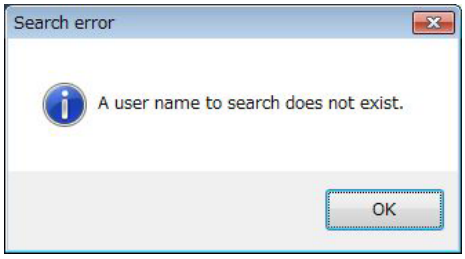
If the searching is not performed over Active Directory, the following screen will be displayed.



If the screen is displayed, check the following:

- The Active Directory is correctly set up.
- The Active Directory is running.
- Network is connected.

When no result is obtained after searching, the following screen will be displayed.



■ User list

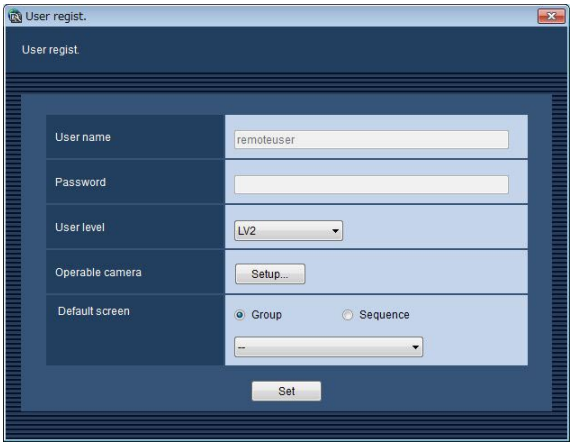
Displays the searched users in a list.

■ Group list

Displays the searched groups in a list.

2. Select a user or a group and click the [Select] button.

→ The "User regist." window will be displayed.



Note:

- If selecting a user name or a group name of over 63 characters cannot be registered.

The details are as follows.

■ User name

The selected user or group will be set automatically. The user name cannot be edited.

■ Password

The field will be displayed in blank. Password cannot be entered.

■ User level

Select the user level to be applied to the selected user from the following.
LV1/LV2/LV3/LV4/LV5
Default: LV2

■ [Setup...] button

When this button is clicked, the "Operable camera setup" window will be displayed. Refer to the "Determine operable cameras" section (☞ page 84) for how to determine the operable cameras.

■ Default screen

Select "Group" or "Sequence" to determine how to display live images just after login.
Group: The group display will start to display live images just after login.
Sequence: The sequence display will start to display live images just after login.
Default: Group

<When "Group" is selected>
It is possible to select the group registered on the "Group regist." window (☞ page 86). When no group is registered, only "--" will be displayed in the drop-down list. In this case, a black screen will be displayed in the image display area of the operation window just after login.
Refer to the "Register a group [Group]" section (☞ page 86) for how to register groups.
Default: --

<When "Sequence" is selected>
It is possible to select the sequence registered on the "Sequence regist." window (☞ page 89). When no sequence is registered, only "--" will be displayed in the drop-down list. In this case, a black screen will be displayed in the image display area of the operation window just after login.
Refer to the "Register a sequence [Sequence]" section (☞ page 89) for how to register sequences.
Default: --

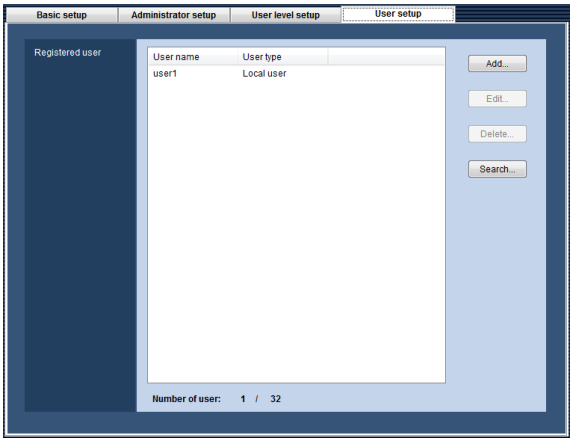
Note:
- The sequence display will function with the sequence dwell time configured using the operation software.

■ [Set] button
The edited settings will be saved and applied.

Edit the user information

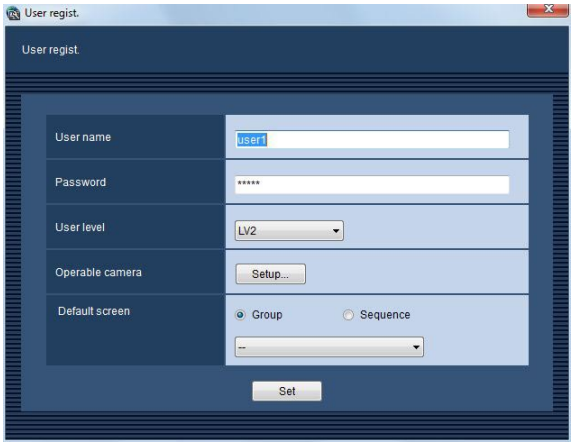
Step 1

Display the "User setup" page. (☞ page 80)



Step 2

Select the user whose information is to be edited, and then click the [Edit...] button.
→ The "User regist." window will be displayed.



Step 3

Click the [Set] button after editing the information.
Refer to the "Register a user" section (☞ page 80) for further information about each item.
→ The "User regist." window will close and the settings will be saved and applied.

Step 4

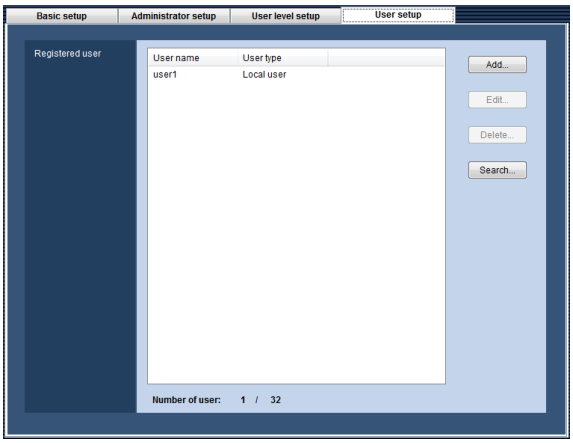
Click the [Set] button after editing the settings.
→ The "User regist." window will close and the settings will be saved and applied.

Note:
- For registration, a same name is not allowed among local user, LDAP user, and LDAP group.
- Once a LDAP group is registered, login of all users included in the group by a same user level will become available.
- If a user in a LDAP group has a same name with a local user or a LDAP user, the priority is given to the user level of the local user or LDAP user.

Delete the user

Step 1

Display the "User setup" page. (☞ page 80)



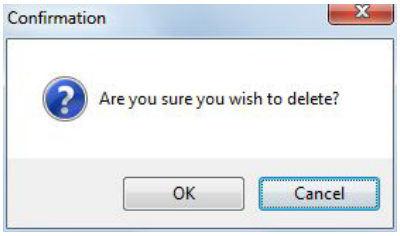
Step 2

Select the user to be deleted.

Step 3

Click the [Delete...] button.

→ The confirmation window will be displayed.



Step 4

Click the [OK] button.

→ User information of the selected user will be deleted.

Important:

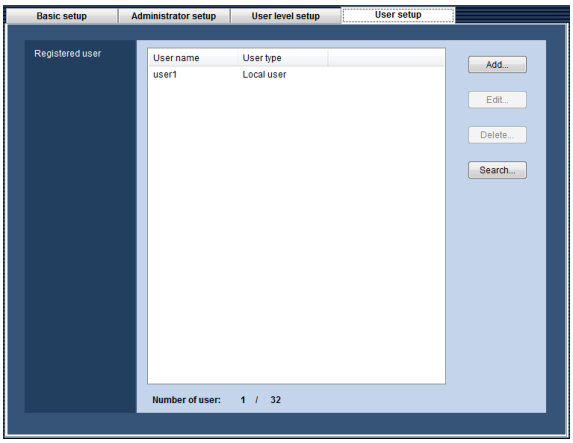
- When user information of the user registered as the auto login user is deleted, the administrator will automatically be set as the auto login user.

Determine operable cameras

The administrator can determine operable cameras depending on the users.

Step 1

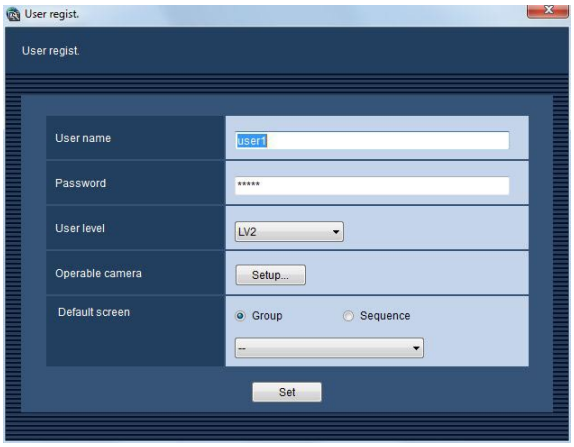
Display the "User setup" page. (☞ page 80)



Step 2

To register a user, click the [Add...] button. To edit the user information of the registered user, click the [Edit...] button.

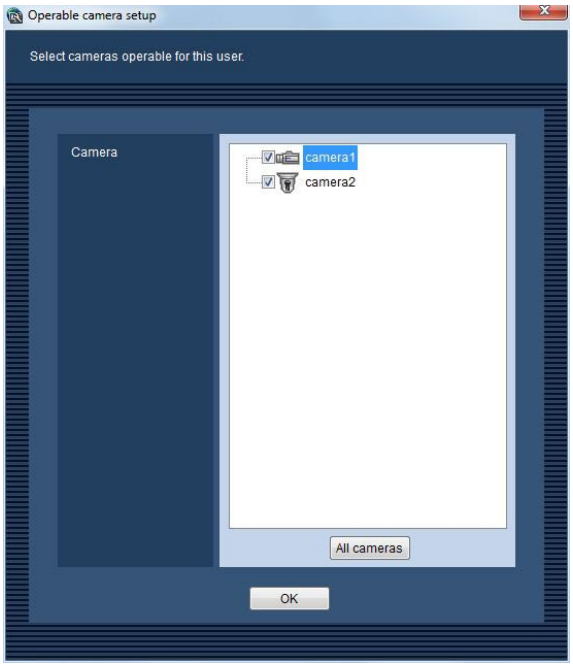
→ The "User regist." window will be displayed.



Step 3

Click the [Setup...] button.

→ The "Operable camera setup" window will be displayed.



The following are descriptions about each item displayed on the "Operable camera setup" window.

■ Camera

The registered devices will be displayed in the tree view.
Select the device from which images are to be displayed when logging in to the operation software.
When no checkbox is checked, no image will be displayed after login.
Default: All checkboxes are checked.

■ [All cameras] button

All the listed cameras will be selected.

■ [OK] button

The "Operable camera setup" window will be closed.

Step 4

Click the [OK] button after editing the settings.

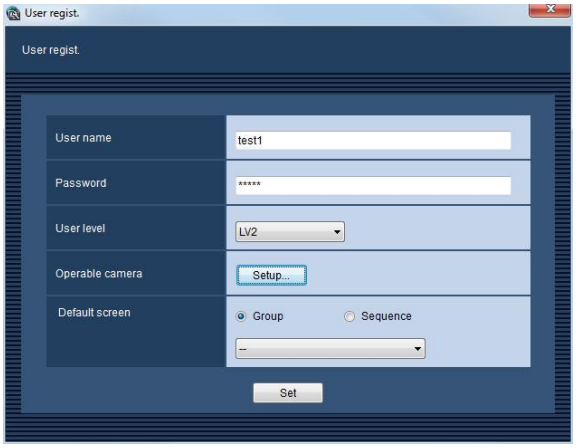
→ The "Operable camera setup" window will close and the "User regist." window will be displayed.

Note:

- The edited settings will not be saved and applied even when the "Operable camera setup" window is closed by clicking the [OK] button. To save and apply the settings, click the [Set] button on the "User regist." window after closing the "Operable camera setup" window.

Step 5

Click the [Set] button on the "User regist." window.



→ The "User regist." window will close and the settings will be saved and applied.

Important:

- Live images directly from the camera can be displayed even if "--" is selected for "Camera partitioning" of on the setup menu of the recorder (not allow to monitor live images) when the camera is selected as operable camera with this software.

Settings relating to the cameras

Contains settings relating to the camera group and the sequence display function.

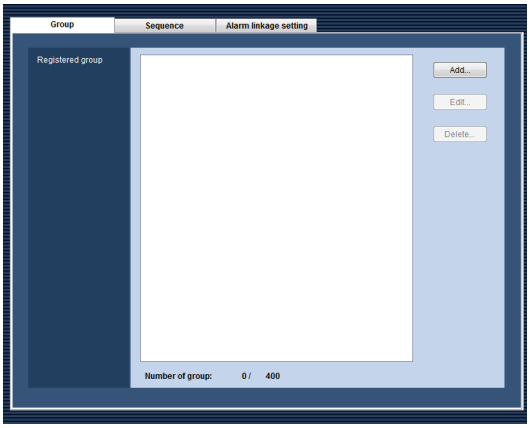
Register a group [Group]

A combination of the screen pattern and the cameras can be registered as a group.
Up to 16 cameras can be registered as a group. (Up to 64 cameras after the license for the WV-ASE202 is added)
Up to 400 groups can be registered.

Register a group

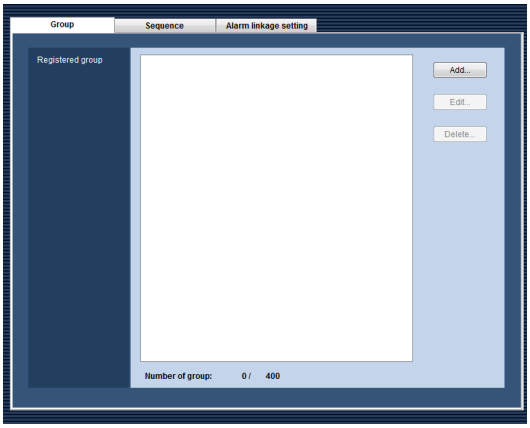
Step 1

Click the [Camera] button.



Step 2

Click the [Group] tab.
→ The "Group" page will be displayed.



The following are descriptions about each item displayed on the "Group" page.

■ **Registered group**

The registered groups will be displayed in list form.

■ **[Add...] button**

The "Group regist." window will be displayed.

■ **[Edit...] button**

The "Group regist." window of the group selected from the list will be displayed.

■ **[Delete...] button**

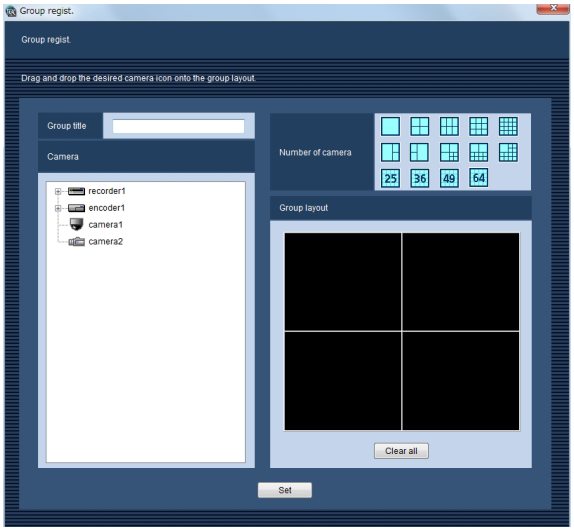
The group selected from the list will be deleted.

■ **Number of device**

Number of the registered groups will be displayed.

Step 3

Click the [Add...] button.
→ The "Group regist." window will be displayed.



Note:

- The [Add...] button will become unavailable when reached the maximum number of the group registration (400 groups).

The following are descriptions about each item displayed on the "Group regist." window.

■ Group title

Enter the group title.
Enter up to 16 characters for the title.
The following characters are unavailable for the group title.
!$ % ' < = > @ [\ ] ^ _ ` { | } ~
The group title already in use cannot be entered.

■ Camera

The registered devices will be displayed in the tree view.

■ Number of camera

Select the screen pattern to determine the number of cameras.
The icons indicate the screen pattern used for the group display as follows.

Icon	Note
	Displays the group on a 1-screen.
	Displays the group on a 4-screen.
	Displays the group on a 6-screen.
	Displays the group on a 9-screen.
	Displays the group on a 16-screen.
	Displays the group on a 3A-screen.
	Displays the group on a 3B-screen.
	Displays the group on a 7-screen.
	Displays the group on a 10-screen.
	Displays the group on a 13-screen.

The following are available after the license for the WV-ASE202 is added.

Icon	Note
	Displays the group on a 25-screen.
	Displays the group on a 36-screen.
	Displays the group on a 49-screen.
	Displays the group on a 64-screen.

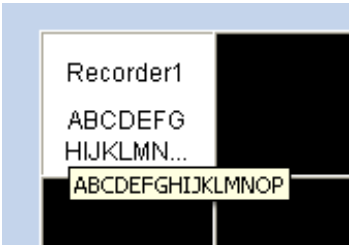
Default: 4-screen

■ Group layout

Images from the cameras registered as a group will be displayed on the selected screen pattern. Drag and drop the recorder icon, the encoder icon or the camera icon displayed in the tree view onto the desired area. When the cameras are registered, the device title and the camera title will be displayed in the areas.

Note:

- When the recorder icon, the encoder icon or the icon of a camera selected for the "Quad streams/ Cropping mode" setting is dragged and dropped, the camera channels will be assigned automatically from camera channel 1 in order.
- When the characters of the device title and the camera title are not fully displayed in the group layout area, the tool tip help will automatically be displayed and show the title fully.
  Example: ABCDEFGHIJKLMN... →
  ABCDEFGHIJKLMNOP



- When displaying images from a camera that is not registered in the recorder, "--" will be displayed as a device title in the group layout area.
- When the group layout area is right-clicked, the "Clear" menu appears. Selection of the "Clear" menu allows users to clear the settings of the area.

■ [Clear all] button

The settings of "Group layout" will be cleared.

■ [Set] button

The edited settings will be saved and applied.

Step 4

Click the [Set] button after editing the information.
→ The "Group regist." window will close and the settings will be saved and applied.
The group will be displayed in the list of the registered group.

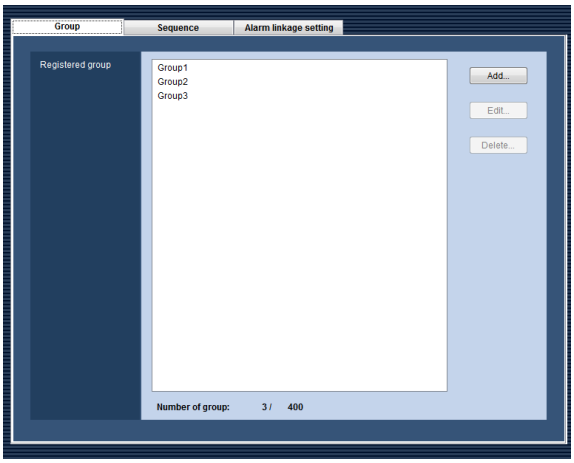
Important:

- The camera already registered in the group cannot be added to the same group.

Edit the group information

Step 1

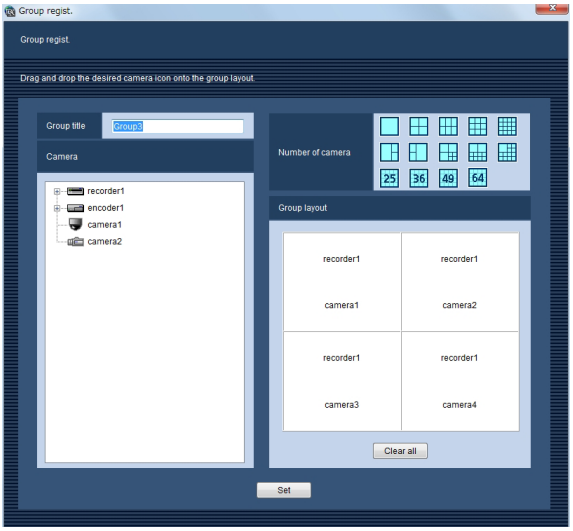
Display the "Group" page. (☞ page 86)



Step 2

Select the group whose information is to be edited, and then click the [Edit...] button.

→ The "Group regist." window will be displayed.



Step 3

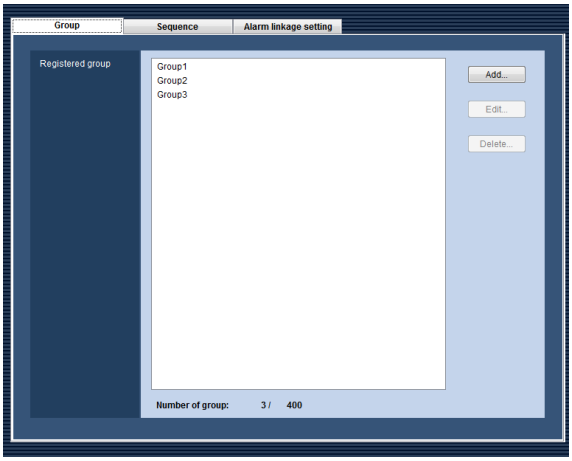
Click the [Set] button after editing the information. Refer to the "Register a group" section (☞ page 86) for further information.

→ The "Group regist." window will close and the settings will be saved and applied.

Delete the group

Step 1

Display the "Group" page. (☞ page 86)



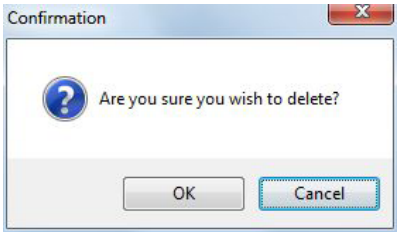
Step 2

Select the group to be deleted, and then click the [Delete...] button.

Step 3

Click the [Delete...] button.

→ The confirmation window will be displayed.



Step 4

Click the [OK] button.

Note:

- When the group set as the default screen is deleted, "--" will be displayed for the setting of "Default screen" on the "Administrator setup" page, the "User regist." window and the "Live window" page. In this case, a black screen will be displayed in the image display area of the operation software.

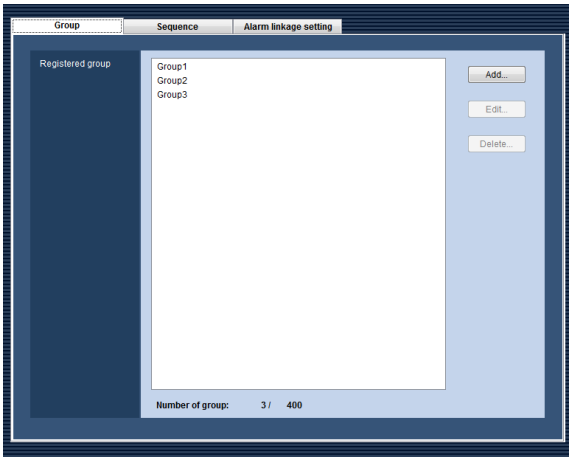
Register a sequence [Sequence]

The registered groups can be registered in a sequence and it is possible to display images from cameras registered in the groups sequentially.
Up to 64 groups can be registered in a sequence.
Up to 10 sequences can be registered.

Register a sequence

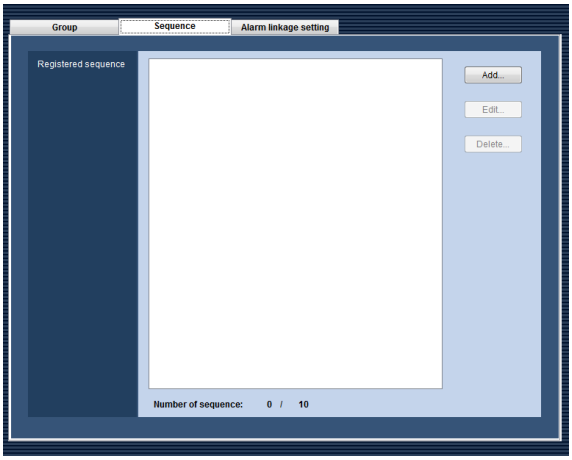
Step 1

Click the [Camera] button.



Step 2

Click the [Sequence] tab.
→ The "Sequence" page will be displayed.



The following are descriptions about each item displayed on the "Sequence" page.

■ Registered sequence

The registered sequences will be displayed in list form.

■ [Add...] button

The "Sequence regist." window will be displayed.

■ [Edit...] button

The "Sequence regist." window of the sequence selected from the list will be displayed.

■ [Delete...] button

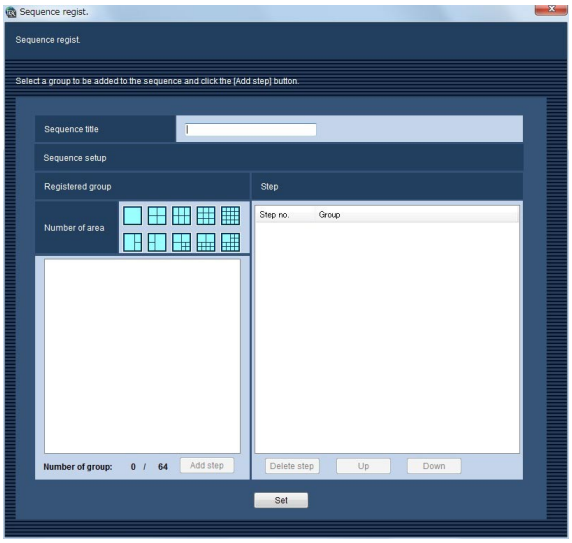
The sequence selected from the list will be deleted.

■ Number of sequence:

Number of the registered sequences will be displayed.

Step 3

Click the [Add...] button.
→ The "Sequence regist." window will be displayed.



Note:
- The [Add...] button will become unavailable when reached the maximum number of the sequence registration (10 sequences).

The following are descriptions about each item displayed on the "Sequence regist." window.

■ Sequence title

Enter the sequence title. Enter up to 16 characters for the title. The following characters are unavailable for the sequence title.
!$ % ' < = > @ [\ ] ^ _ ` { | } ~
The sequence title already in use cannot be entered.

■ Registered group

The groups that can be registered in the sequence will be displayed in list form.

■ Number of area

Select the number of the area of the group to display the groups in the list below.
1-screen: The group whose screen pattern is 1-screen.
4-screen: The group whose screen pattern is 4-screen.
6-screen: The group whose screen pattern is 6-screen.
9-screen: The group whose screen pattern is 9-screen.
16-screen: The group whose screen pattern is 16-screen.
3A-screen: The group whose screen pattern is 3A-screen.
3B-screen: The group whose screen pattern is 3B-screen.
7-screen: The group whose screen pattern is 7-screen.
10-screen: The group whose screen pattern is 10-screen.
13-screen: The group whose screen pattern is 13-screen.
Default: 1-screen

■ Number of group

Number of the groups registered in the sequence will be displayed in list form.

■ [Add step] button

A group selected from "Registered group" can be added to "Step".

Note:
- The group already registered in the sequence can be registered to the same sequence again as a different step.
- The [Add step] button will become unavailable when reached the maximum number of the step addition (64 steps).

■ Step

Each step of the registered sequence will be displayed.

■ [Delete step] button

The selected group can be deleted from the sequence.

■ [Up] button

The selected group will move one step up.

■ [Down] button

The selected group will move one step down.

■ [Set] button

The edited settings will be saved and applied.

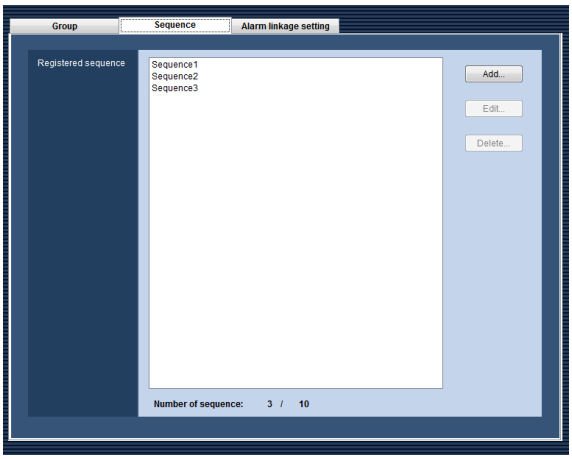
Step 4

Click the [Set] button after editing the information.
→ The "Sequence regist." window will close and the settings will be saved and applied. The sequence will be displayed in the list of the registered sequence.

Edit the sequence

Step 1

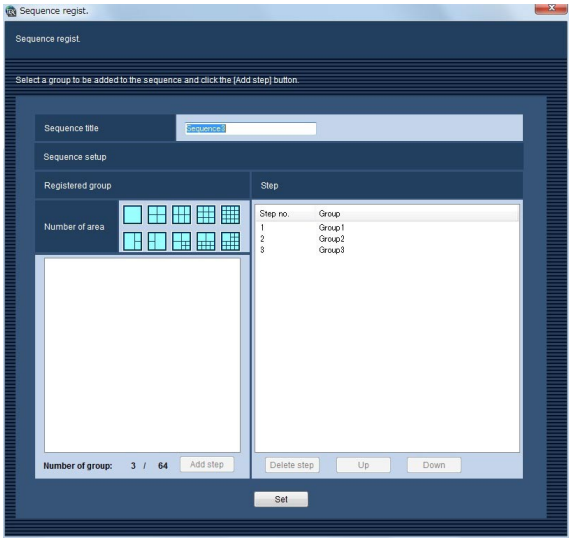
Display the "Sequence" page. (☞ page 89)



Step 2

Select the sequence whose information is to be edited, and then click the [Edit...] button.

→ The "Sequence regist." window will be displayed.



Step 3

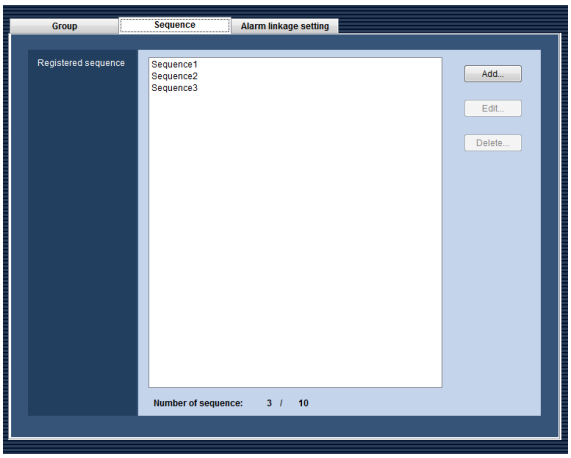
Click the [Set] button after editing the information. Refer to the "Register a sequence" section (☞ page 89) for further information.

→ The "Sequence regist." window will close and the settings will be saved and applied.

Delete the sequence

Step 1

Display the "Sequence" page. (☞ page 89)



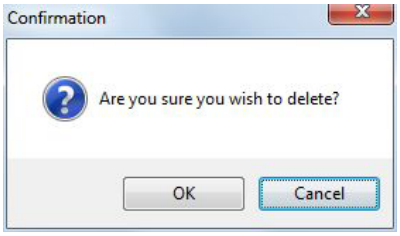
Step 2

Select the sequence to be deleted, and then click the [Delete...] button.

Step 3

Click the [Delete...] button.

→ The confirmation window will be displayed.



Step 4

Click the [OK] button.

→ The selected sequence will be deleted.

Note:

- When the sequence set as the default screen is deleted, "--" will be displayed for the setting of "Default screen" on the "Administrator setup" page, the "User regist." window and the "Live window" page. In this case, a black screen will be displayed in the image display area of the operation software.

Settings relating to the alarm linkage [Alarm linkage setting]

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 when receiving an alarm notification. When operating with the default settings, images from the camera in which the alarm occurred will be displayed. When the alarm linkage setting described below is configured, images from multiple cameras that are registered as a group can be displayed on Live window 1. Up to 512 alarm linkages can be registered.

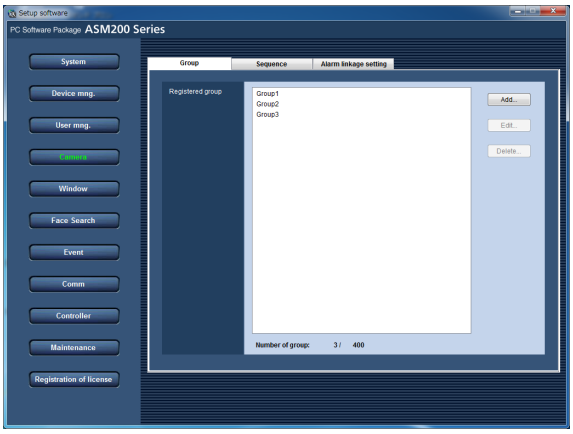
Note:

- Refer to the "Alarm mode of the live window" section in the WV-ASM200 Operating Instructions for further information about alarm display on the Live window.

Add an alarm linkage

Step 1

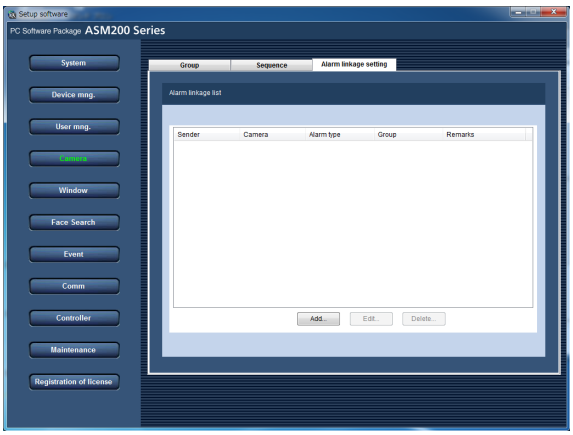
Click the [Camera] button.



Step 2

Click the [Alarm linkage setting] tab.

→ The "Alarm linkage setting" page will be displayed.



The details are as follows.

■ **Alarm linkage list**

The registered alarm linkages will be displayed in list form.

■ **[Add...] button**

The "Alarm linkage" window will be displayed.

■ **[Edit...] button**

The "Alarm linkage" window corresponding to the alarm linkage selected from the list will be displayed.

■ **[Delete...] button**

The "Alarm linkage" selected from the list will be deleted.

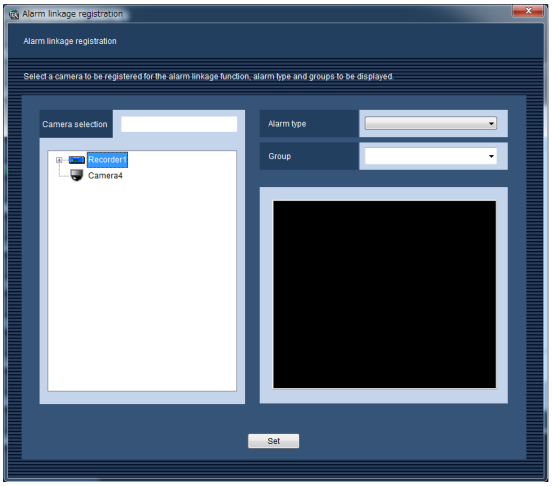
■ **Number of alarm linkage**

Number of the registered alarm linkages will be displayed.

Step 3

Click the [Add...] button.

→ The "Alarm linkage registration" window will be displayed.



Note:

- The [Add...] button will become unavailable when reached the maximum number of the alarm linkage registration (512 alarm linkages).
- When the number of multi-screen areas of the group that is set for the group linkage is more than the maximum number of areas for Live window 1, the alarm linkage display will not be performed. Select a group whose number of areas is not larger than the maximum number of areas for Live window 1.

The details are as follows.

■ Camera selection

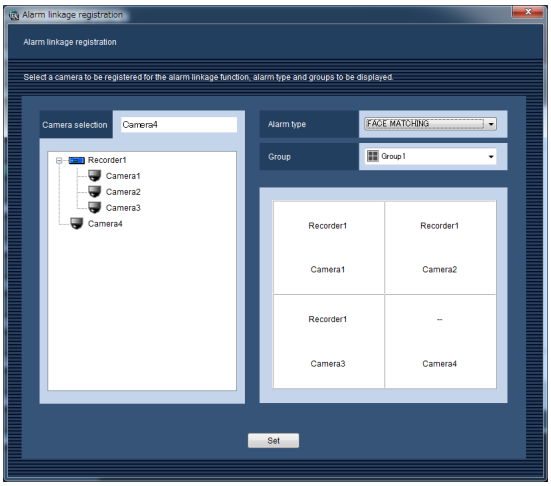
The registered devices will be displayed in the tree view. Click and select a device to be registered for the alarm linkage function.

■ Alarm type

Select an alarm type to be registered for the alarm linkage function from the list.

■ Group

Select a group to be registered for the alarm linkage function from the list. A group can be selected from the group list registered on the "Group" page. It is necessary to register groups on the "Group" page before configuring this setting.
Descriptions about the selected group will be displayed at the lower part of the screen.



Note:

- The group setting cannot be configured on this page. Only checking descriptions about the selected group is available.

■ [Set] button

The configured settings will be saved.

Step 4

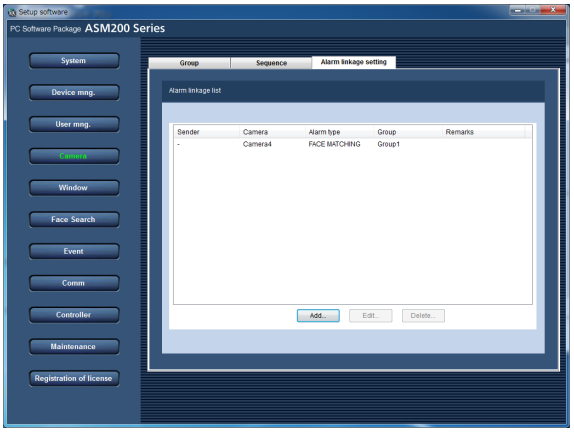
Click the [Set] button after editing the information.

→ The "Alarm linkage registration" window will close and the settings will be saved and applied.
The registered alarm linkage will be added to the alarm linkage list.

Edit the alarm linkage

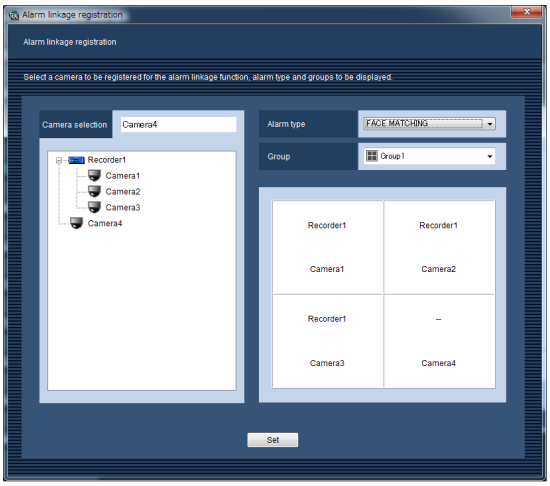
Step 1

Display the "Alarm linkage setting" page.
(☞ page 92)



Step 2

Select an alarm linkage to be edited from the alarm linkage list, and then click the [Edit...] button.
→ The "Alarm linkage registration" window will be displayed.



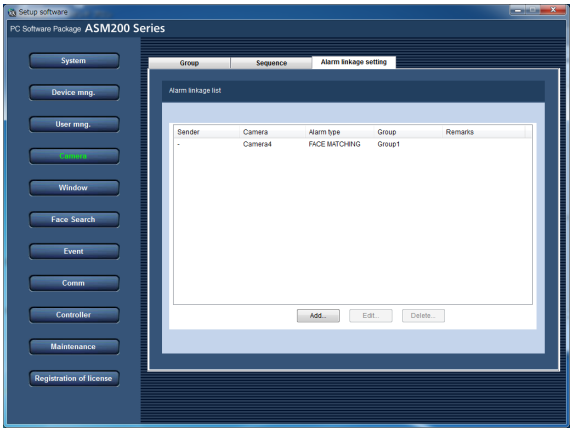
Step 3

Click the [Set] button after editing the information.
Refer to the "Add an alarm linkage" section (☞ page 92) for further information.
→ The "Alarm linkage registration" window will close and the settings will be saved and applied.

Delete the alarm linkage

Step 1

Display the "Alarm linkage setting" page.
(☞ page 92)

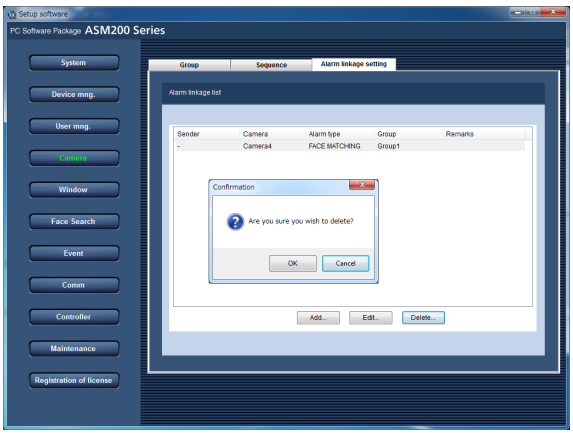


Step 2

Select an alarm linkage to be deleted from the alarm linkage list.

Step 3

Click the [Delete...] button.
→ The deletion confirmation window will be displayed.



Step 4

Click the [OK] button.
→ The selected alarm linkage will be deleted.

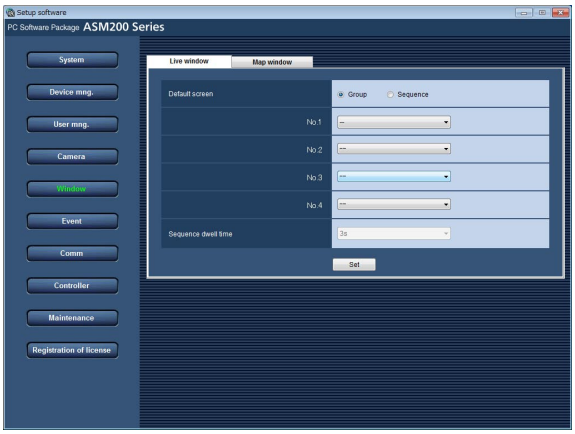
Settings relating to the window

The settings relating to the live window and the map window can be configured.

Use the live window [Live window]

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

Click the [Window] button, and then click the [Live window] tab to display the "Live window" page.



■ Default screen

Select "Group" or "Sequence" to determine how to display live images just after the live window is displayed.
Group: The group display will start to display live images just after the live window is displayed.
Sequence: The sequence display will start to display live images just after the live window is displayed.
Default: Group

<When "Group" is selected>
It is possible to select the group registered on the "Group regist." window (☞ page 86). When no group is registered, only "--" will be displayed in the drop-down list. In this case, a black screen will be displayed in the image display area of the live window.
Refer to the "Register a group [Group]" section (☞ page 86) for how to register groups.
Default: --

<When "Sequence" is selected>
It is possible to select the sequence registered on the "Sequence regist." window (☞ page 89). When no sequence is registered, only "--" will be displayed in the drop-down list. In this case, a black screen will be displayed in the image display area of the live window.
Refer to the "Register a sequence [Sequence]" section (☞ page 89) for how to register sequences.
Default: --

Note:
- After the license for the WV-ASE202 is added, it will become possible to set the default screen for each of the live windows from No .1 to No. 4.

■ Sequence dwell time

Select a sequence dwell time from the following. This setting can be set only when "Sequence" is selected for "Default screen".
3s/5s/10s/15s/20s/25s/30s/35s/40s/45s/50s/55s/1min
Default: 3s

■ [Set] button

The edited settings will be saved and applied.

Use the map window [Map window]

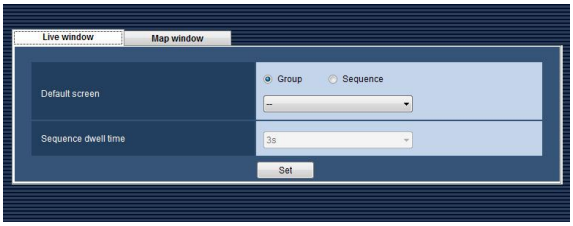
Important:
- It is necessary to register the license for the Extension Software WV-ASE201.

Register a map in advance to use the map window.
Up to 100 maps can be registered.
The following are descriptions of how to register/edit delete the maps.

Register a map

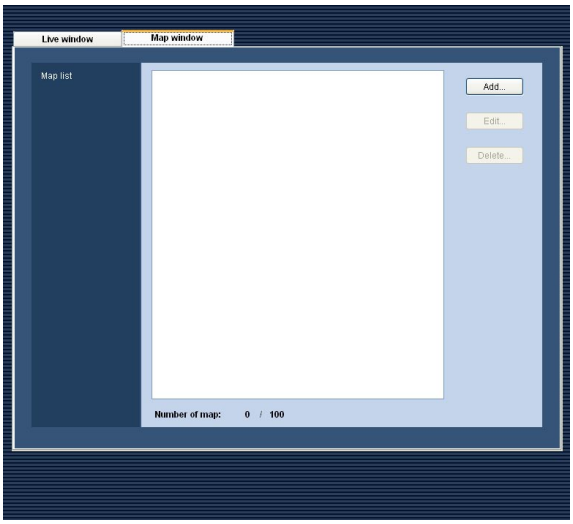
Step 1

Click the [Window] button.



Step 2

Click the [Map window] tab.
→ The "Map window" page will be displayed.



The following are descriptions about each item displayed on the "Map window" page.

■ Map list

The registered maps will be displayed in list form.

■ Number of map:

Number of the registered maps will be displayed.

■ [Add...] button

The "Map regist." window will be displayed.

■ [Edit...] button

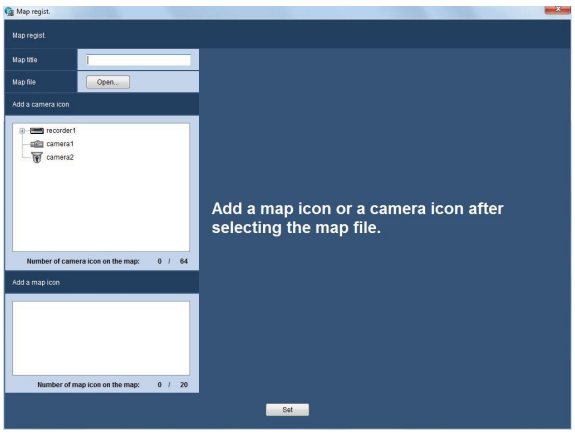
The "Map regist." window of the map selected from the list will be displayed.

■ [Delete...] button

The map selected from the list will be deleted.

Step 3

Click the [Add...] button.
→ The "Map regist." window will be displayed.



Note:
- The [Add...] button will become unavailable when reached the maximum number of the map registration (100 maps).

The following are descriptions about each item displayed on the "Map regist." window.

■ Map title

Enter the map title.
Enter up to 16 characters for the title.
The following characters are unavailable for the recorder title.
!$ % ' < = > @ [\ ] ^ _ ` { | } ~
The map title already in use cannot be entered.

■ Map file

When the [Open...] button is clicked, the file selection window will be displayed to select the image file.

■ Add a camera icon

The registered devices will be displayed in the tree view.

■ Number of camera icon on the map:

Number of the camera icons registered on the map will be displayed. Up to 64 camera icons can be registered.

■ Add a map icon

Number of the registered map icons will be displayed.

■ Number of map icon on the map:

Number of the map icons registered on the map will be displayed. Up to 20 map icons can be registered.

■ Map display area

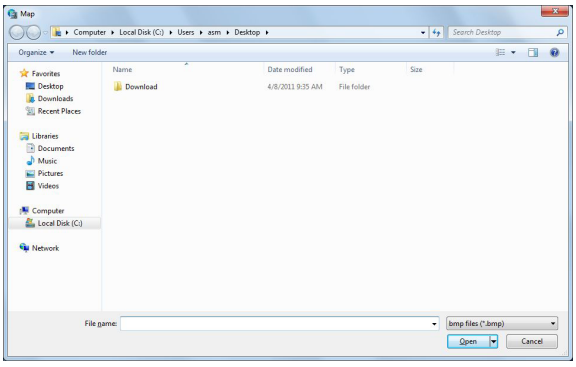
The image file will be displayed.

■ [Set] button

The edited settings will be saved and applied.

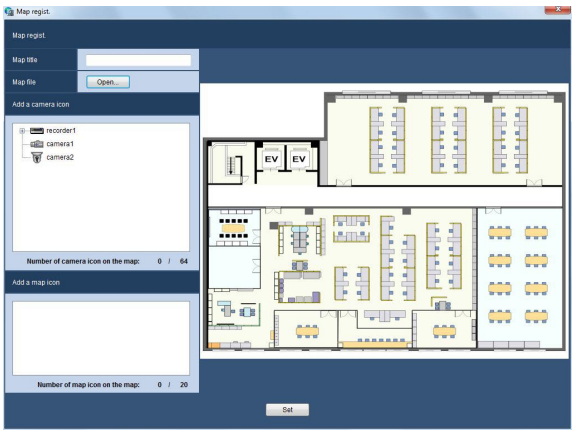
Step 4

Click the [Open...] button.
→ The map selection window will be displayed.



Step 5

Select the desired image file and click the [Open...] button.
→ The selected image file will be displayed in the map display area.



Step 6

Drag and drop the camera icon from "Add a camera icon" onto the map display area.
Drag and drop the map icon from "Add a map icon" onto the map display area.

Note:

- When right-clicking on the camera icon, the pop-up menu will be displayed. The camera icon can be rotated to indicate the shooting direction of the camera on the map from the displayed pop-up menu. Refer to the "Change the settings for the camera icon" section (☞ page 99) for further information.
- When 64 camera icons are already registered, it is impossible to drag and drop the camera icon onto the map display area.
- When 20 map icons are already registered, it is impossible to drag and drop the camera icon onto the map display area.

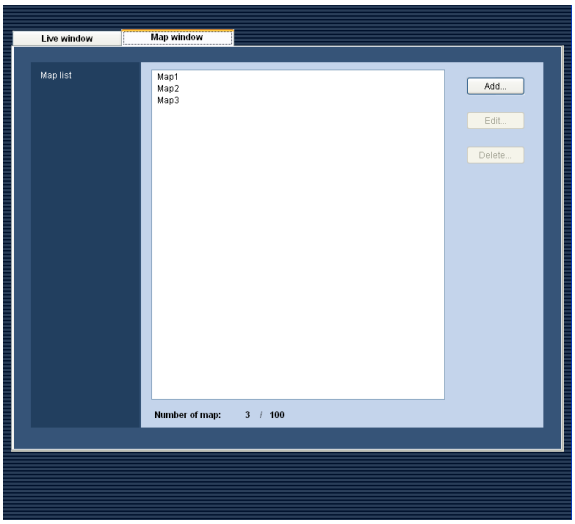
Step 7

Click the [Set] button after editing the settings.
→ The "Map regist." window will close and the settings will be saved and applied.
The selected map will be displayed in the list of "Add a map icon".

Edit the map

Step 1

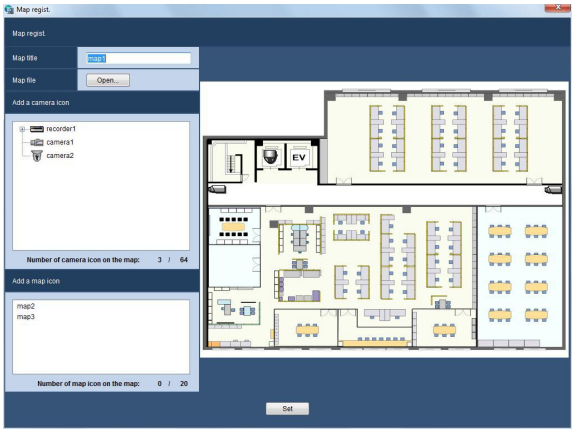
Display the "Map window" page. (☞ page 96)



Step 2

Select the map to be edited, and then click the [Edit...] button.

→ The "Map regist." window will be displayed.



Step 3

Click the [Set] button after editing the map information.

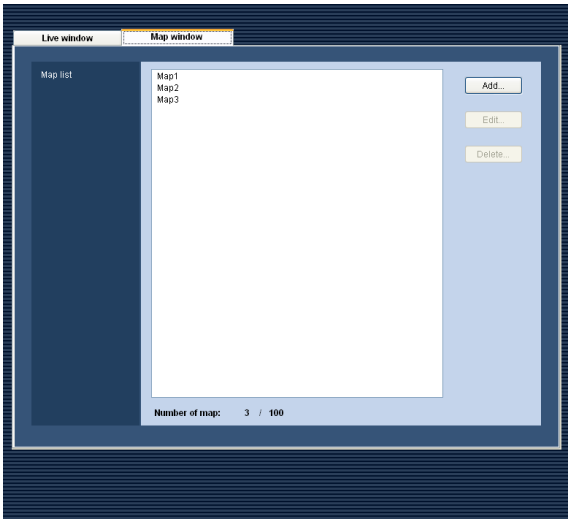
Refer to the "Register a map" section (☞ page 96) for further information.

→ The "Map regist." window will close and the settings will be saved and applied.

Delete the map

Step 1

Display the "Map window" page. (☞ page 96)



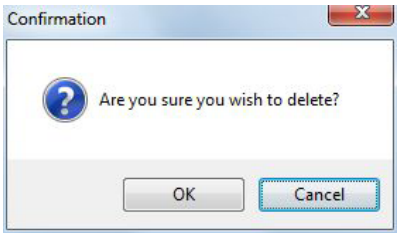
Step 2

Select the map to be deleted, and then click the [Delete...] button.

Step 3

Click the [Delete...] button.

The confirmation window will be displayed.



Step 4

Click the [OK] button to carry out the deletion.

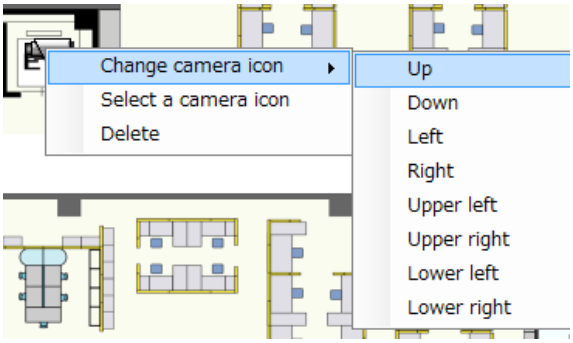
The selected map will be deleted.

Important:

- When the map icon of the map to be deleted is registered in the other map, the map icon on the other map will be deleted when the [OK] button is clicked.

Change the settings for the camera icon

When right-clicking on the registered camera icon, the pop-up menu including [Change camera icon], [Select a camera icon] and [Delete] will be displayed.



■ Change camera icon

When right-clicking on the selected camera icon and selecting one of the following directions by moving a cursor to [Change camera icon] from the pop-up menu, the camera icon can be rotated to the selected direction.

Up: The camera icon will be rotated to indicate that the shooting direction is upward.

Down: The camera icon will be rotated to indicate that the shooting direction is downward.

Left: The camera icon will be rotated to indicate that the shooting direction is leftward.

Right: The camera icon will be rotated to indicate that the shooting direction is rightward.

Upper left: The camera icon will be rotated to indicate that the shooting direction is at the upper left.

Upper right: The camera icon will be rotated to indicate that the shooting direction is at the upper right.

Lower left: The camera icon will be rotated to indicate that the shooting direction is at the lower left.

Lower right: The camera icon will be rotated to indicate that the shooting direction is at the lower right.

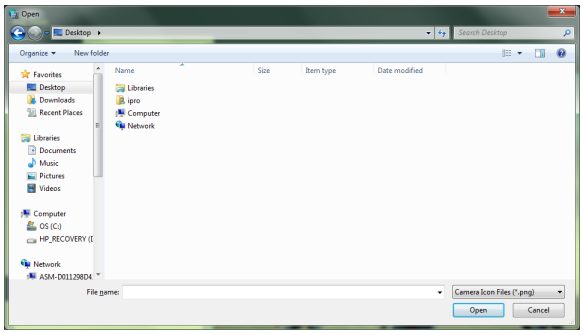
■ Select a camera icon

When right-clicking on the selected camera icon and selecting [Select a camera icon] from the pop-up menu, the default camera icons can be changed to desired icons prepared by a user.

Step 1

Select "Select a camera icon".

→ The "Open" window will be displayed.



Step 2

Select the icon file to be changed, and then click the [Open] button.

→ The camera icons on the map display area will be changed.

Note:

- The available file type for the new icons is PNG (.png).
- Icon files which are smaller than 16x16 pixels or larger than 128x128 pixels cannot be loaded.
- At an alarm or error occurrence, the display status of the icons on the map will differ from the default camera icons.
- The changed camera icons cannot be restored to the former ones.
- Delete them once and arrange the camera icons again.

■ Delete (Camera icon)

When right-clicking on the selected camera icon and selecting [Delete] from the pop-up menu, the selected camera icon can be deleted.

Settings relating to the face search

Important:
- It is necessary to register the license for the Extension Software WV-ASE231.

Add a face search server

Preliminary preparation

Before adding a face search server, prepare and configure the following.

(1) Register cameras to be used for the face search to ASM200. When playback of recorded images from the search result is to be performed, register cameras to be used to a recorder and register the recorder to ASM200.

(2) Register cameras to the face server to be connected. When registering, register GUID of the camera in the following format.
GUID format: "00000000-0000-0000-0000-[12 digits of IP address of the camera]"
(Example) When the IP address of the camera to be registered is "192.168.0.10", GUID to be registered is "00000000-0000-0000-0000-192168000010".

(3) Run the face search server.

Step 1

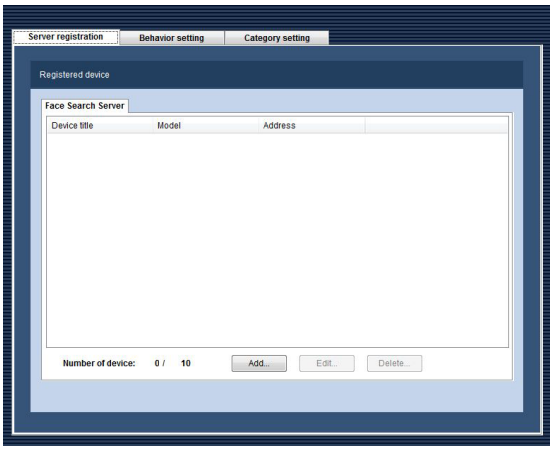
Click the [Face search] button.

→ The "Registered device" window will be displayed.

Step 2

Click the [Server registration] tab.

→ The "Registered device" window of the face search server will be displayed.



The details are as follows.

■ Registered device

Titles, model numbers and addresses of the registered face search server will be displayed in list form.

■ Number of device:

Number of the registered face search servers will be displayed.

■ [Add...] button

Display the "Device registration" window.

■ [Edit...] button

The "Device registration" window of the face search server selected from the list of "Registered devices" will be displayed.

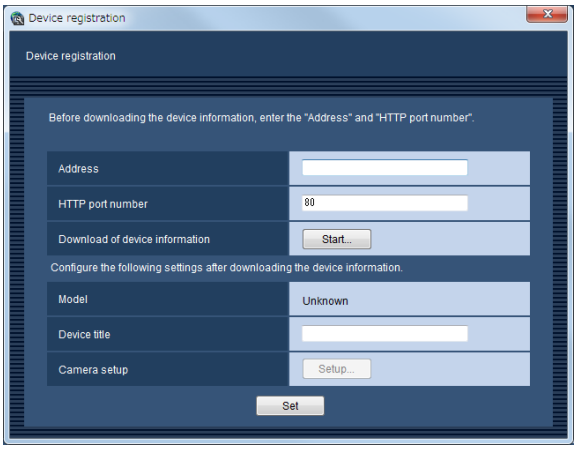
■ [Delete...] button

The face search server selected from the list of "Registered device" will be deleted.

Step 3

Click the [Add...] button.

→ The "Device registration" window will be displayed.



Note:
- The [Add...] button will become unavailable when reached the maximum number of face search server registration.

The details are as follows.

■ Address

Enter the IP address of the face search server. Enter the address using up to 255 alphanumeric characters including "." (dot) and "-" (hyphen).

■ HTTP port number

Enter a number among the following for the HTTP port number.
1 - 65535
Default: 80

■ [Start...] button

Device information will be downloaded based on the settings of "Address" and "HTTP port number".

■ Model

The model number of the face search server contained in the device information downloaded from the face search server will be displayed. "Unknown" will be displayed when device information is not downloaded yet.

■ Device title

Enter the name of the face search server. Enter up to 16 characters for the device title. The following characters are unavailable for the sequence title. !$ % ' < = > @ [\ ] ^ _ ` { | } ~

■ Name of people search

Set the server name for people search.

Note:

- After device information is obtained, the name of the people search will be displayed only if the people search server exists.

■ [Setup...] button

The information window of the downloaded camera settings will be displayed. The [Setup...] button will be unavailable until camera information is downloaded.

■ [Set] button

The edited settings will be saved and applied.

Step 4

Enter the IP address and the HTTP port number for "Address" and "HTTP port number" respectively.

Step 5

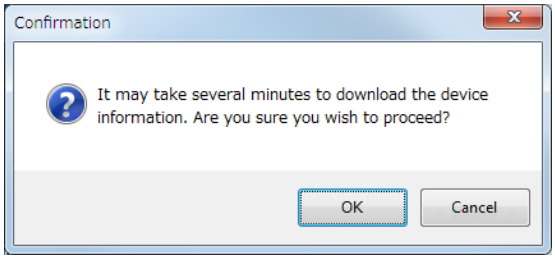
Click the [Start...] button.

Important:

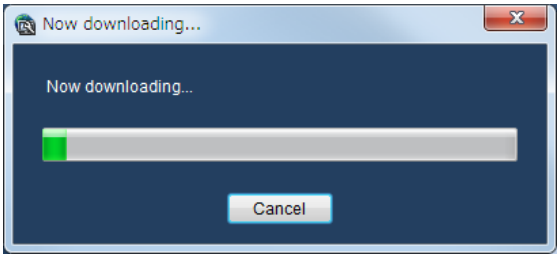
- Make sure that the settings on the "NW Camera Setup" page of the setup menu of the face search server are completed before downloading the device information. When the face search server is not configured correctly, downloading of the face search server information may be impossible.
- When the settings of the setup menu of the face search server are edited, download the device information again.

Step 6

Click the [OK] button.



→ The downloading status window will be displayed during downloading the device information.
To cancel downloading the device information, click the [Cancel] button on the displayed downloading status window.

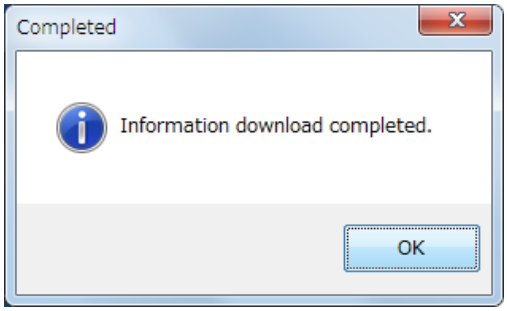


Step 7

Confirm the displayed messages and proceed to the next step.

<When download of the device information is successfully completed>

1. Click the [OK] button.

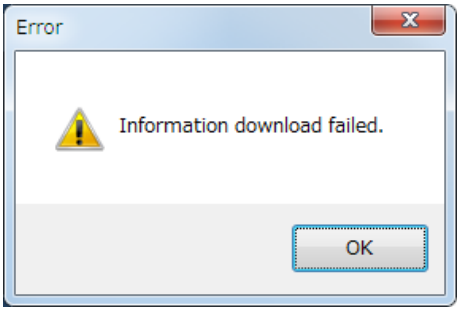


→ The downloading completion window will close and return to the "Device registration" window.

2. Go to step 8.

<When download of the device information failed>

1. Confirm the content of the message indicated in the window.



Note:

- Check if the entered device information is correct. When the information has been edited correctly, the connected device or the version of the connected device may not be compatible with this software. Refer to the "Compatible devices" section (☞ page 6) for further information.
- Refer to the "When the [Start...] button on the setup page of "Device mng." is clicked" section (☞ page 152) for further information about the displayed messages and solutions.

2. Click the [OK] button.

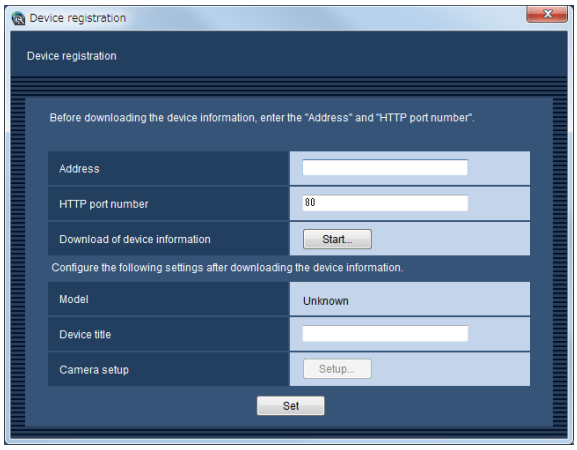
→ The error window will close.

3. Return to the "Device registration" window and confirm the settings.

4. Then, download the device information again.

Step 8

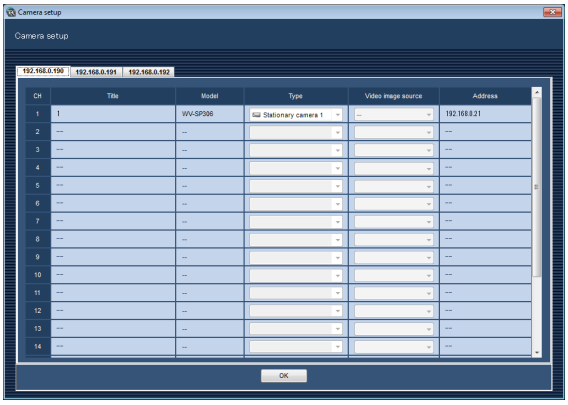
Enter for "Device title".



Step 9

Click the [Display...] button.

→ The "Camera setup" window will be displayed.



The details are as follows.

■ Child server tab

Information will be switched for each child server. The IP address of the child server will be displayed on this tab.

■ CH

The camera channel numbers will be displayed.

■ Title

The camera name to be used by the face search server will be displayed. The device name set as "Video image source" will be displayed. The displayed titles cannot be edited.

■ Model

The model number of the camera to be used by the face search server will be displayed. The model number of the device set as "Video image source" will be displayed. The displayed titles cannot be edited.

■ Type

The type of the camera and the icon to be used by the face search server will be displayed. The type of the device set as "Video image source" will be displayed. The displayed icon cannot be edited.

■ Video image source

Link the cameras whose information is downloaded from the face search server to the cameras or the recorders registered in ASM200. Devices can be selected from the list of the devices that matches with the camera IP address information downloaded from the face search server. It is necessary to register devices in advance according to the setting procedures of the cameras and recorders used with ASM200. To play recorded images by operating the face search monitor, select the cameras registered in the recorder by configuring this setting.

■ Address

The address of the camera whose information is downloaded from the face search server will be displayed.

Step 10

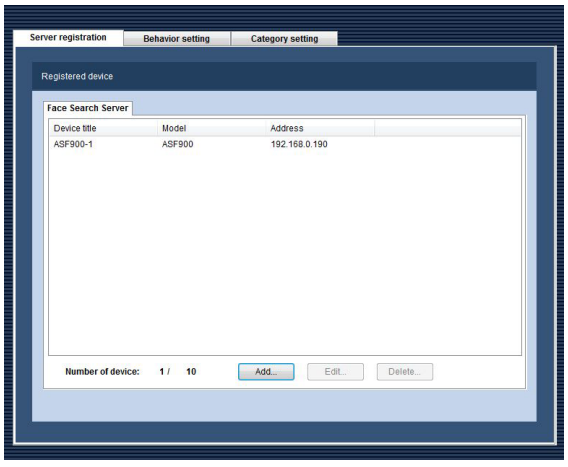
Click the [Set] button.

→ The "Device registration" window will close and the settings will be saved and applied.
The registered camera will be displayed in the list of the registered devices.

Correct the face search server

Step 1

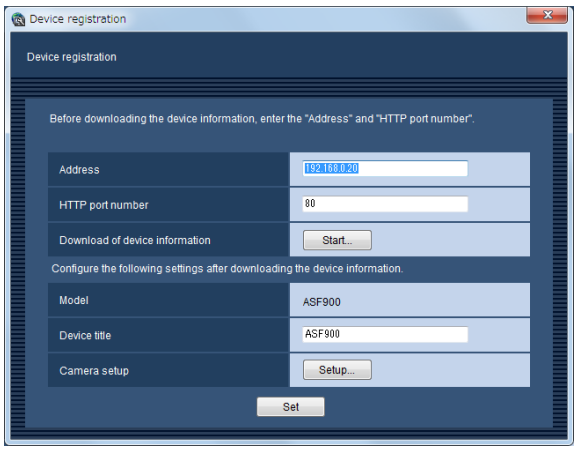
Display the "Registered device" window of the face search server. (☞ page 100)



Step 2

Select the recorder whose information is to be edited, and then click the [Edit...] button.

→ The "Device registration" window will be displayed.



Step 3

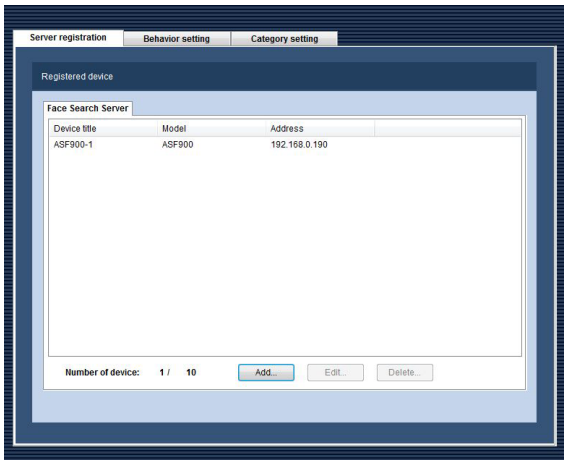
Click the [Set] button after editing the information.
Refer to the "Add a face search server" section (☞ page 100) for further information about each item.

→ The "Device registration" window will close and the settings will be saved and applied.

Delete the face search server

Step 1

Display the "Registered device" window of the face search server. (☞ page 100)



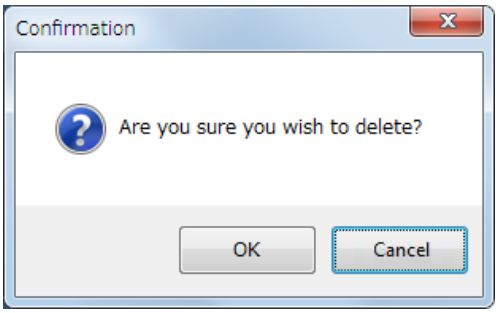
Step 2

Select the recorder to be deleted.

Step 3

Click the [Delete...] button.

→ The deletion confirmation window will be displayed.



Step 4

Click the [OK] button.

→ The device information will be deleted.

Configure the behavior setting of the face search monitor

Step 1

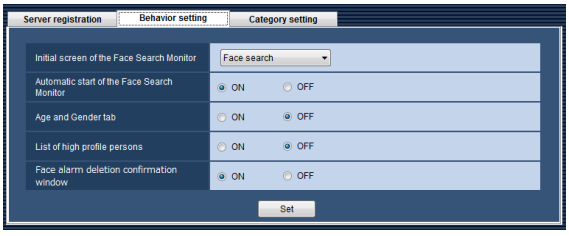
Click the [Face search] button.

→ The "Registered device" window will be displayed.

Step 2

Click the [Behavior setting] tab.

→ The "Behavior setting" page of the face search monitor will be displayed.



The details are as follows.

■ Initial screen of the Face Search Monitor

Select the initial screen to be displayed just after starting the face search monitor.

Alarm: The "Alarm" window will be displayed as the initial screen.

Alarm search: The "Alarm search" window will be displayed as the initial screen.

Face search: The "Face search" window will be displayed as the initial screen.

People Search: The "People Search" window will be displayed as the initial screen.

Age and Gender: The "Age/Gender" window will be displayed as the initial screen.

Default: Face search

Note:

- The people search will be displayed only if the people search server exists.

■ Automatic start of the Face Search Monitor

Select whether or not to launch the face search monitor automatically when an alarm is received from the face search server while the face search monitor is not being displayed.
ON: Automatically launch the face search monitor
OFF: Not launch the face search monitor automatically
Default: ON

■ Age and Gender tab

Select whether or not to display statistical graphs shown by age and gender brackets and by head count brackets.
ON: Display
OFF: Not display
Default: OFF

■ List of high profile persons

Select "ON" or "OFF" to determine whether to display the face image to which "Constant display" is set on the alarm notification window of the face search monitor.
ON: Display
OFF: Not display
Default: OFF

■ Face alarm deletion confirmation window

Select whether to display the confirmation window when deleting a face alarm.
ON: Display the confirmation window.
OFF: Not display the confirmation window.
Default: ON

Note:
- This function will be automatically set off when "This message won't be indicated from now on." is check-marked.

■ [Set] button

The configured settings will be saved.

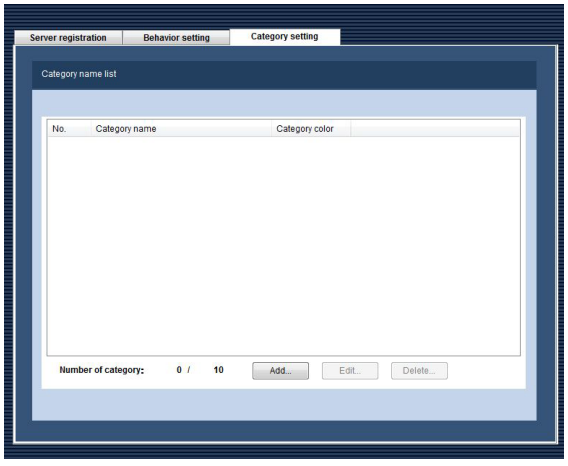
Register a category name

Step 1

Click the [Face search] button.
→ The "Registered device" window will be displayed.

Step 2

Click the [Category setting] tab.
→ The "Category name list" window will be displayed.



The details are as follows.

■ Category name list

The number of the registered category name, "Category name", and "Category color" will be displayed in list form.

■ Number of category

Number of the registered category will be displayed. Up to 10 categories can be registered.

■ [Add...] button

The "Category name registration" window will be displayed.

■ [Edit...] button

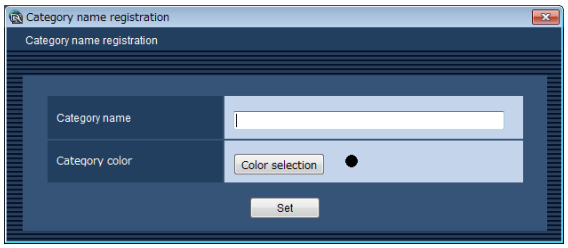
The category name selected from the "Category name list" will be displayed on the "Category name registration" window.

■ [Delete...] button

The category name selected from the "Category name list" will be deleted.

Step 3

Click the [Add...] button.
The "Category name registration" window will be displayed.



Note:

- The [Add...] button will become unavailable when reached the maximum number of category registration.

Step 4

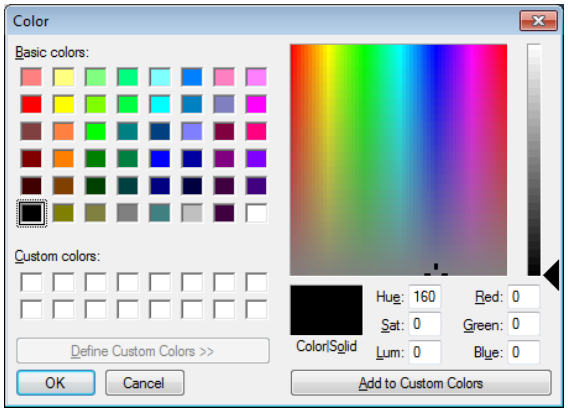
Enter a category name.

Note:

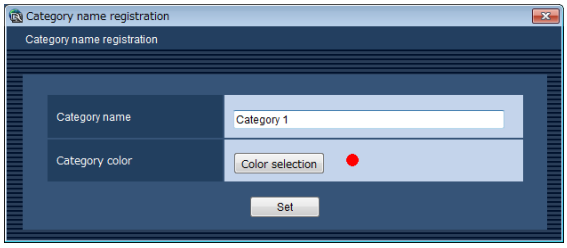
- Up to 16 characters can be entered for a category name.

Step 5

To set a color for the category, click the [Color selection] button.
→ The "Color" window will be displayed.



Select the desired basic color or add an color, and then click the [OK] button.
→ The "Category name registration" page will be displayed again.
The selected color will be displayed next to the [Color selection] button.



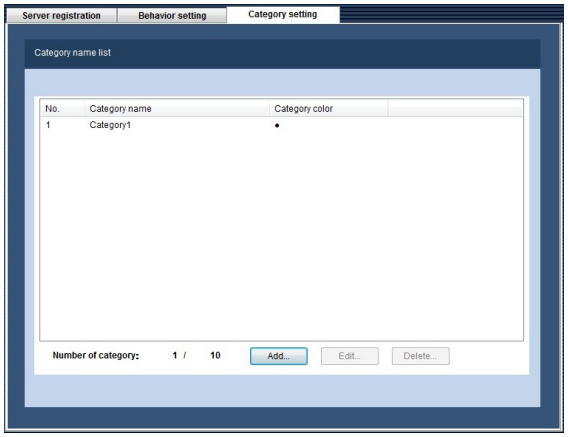
Step 6

Click the [Set] button.
→ The entered name will be saved and the "Category name registration" window will close.
The category name will be added to the "Category name list".

Edit the registered category name information

Step 1

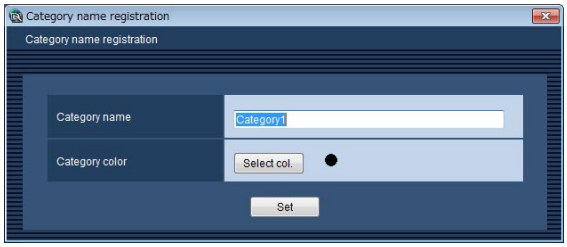
Display the "Category name list" window.
(☞ page 105)



Step 2

Select the category name to be edited from the "Category name list", and then click the [Edit...] button.

→ The "Category name registration" window will be displayed.



Step 3

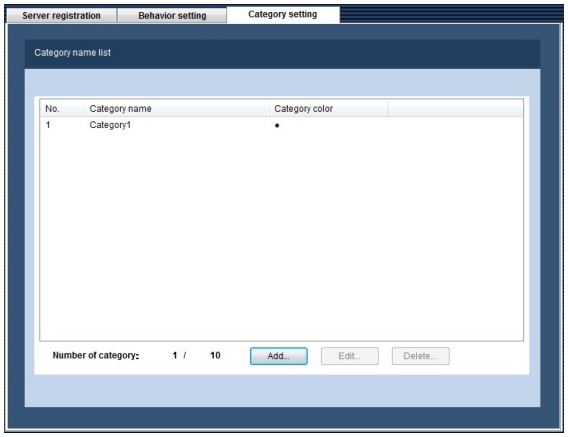
Edit the category name and click the [Set] button.

→ The edited information will be saved and the "Category name registration" window will close. The edited category name will be displayed in the "Category name list".

Delete the registered category name

Step 1

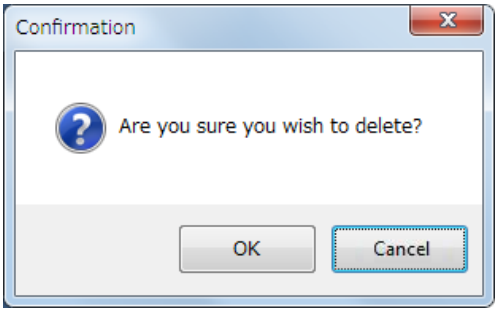
Display the "Category name list" window.
(☞ page 105)



Step 2

Select the category name to be deleted from the "Category name list", and then click the [Delete...] button.

→ The confirmation window will be displayed.



Step 3

Click the [OK] button.

→ The selected category name will be deleted.

Settings relating to the event action

Configure the settings of the event action that is to be taken upon an alarm/error occurrence.
Refer to the "Settings for the event action upon an alarm occurrence [Alarm]" section below for further information about the alarm.
Refer to the "Settings for the event action upon an error occurrence [Error]" section (☞ page 110) for further information about the device error (of the recorder, encoder, camera or microphone) and the network error.

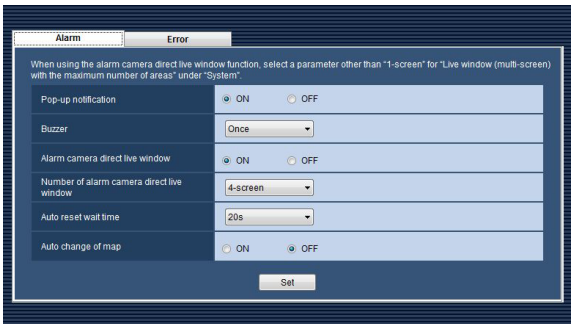
Settings for the event action upon an alarm occurrence [Alarm]

When an alarm occurred, the event action will be taken. There are 3 event actions; displaying a message, sounding the buzzer and displaying live images from the camera in which the alarm occurred.

Note:

- It is necessary to configure the settings on the "Panasonic Alarm" page to receive alarm notifications from the device. Refer to the "Settings relating to the alarm notification from the device using Panasonic alarm protocol [Panasonic Alarm]" section (☞ page 112) for further information.

Click the [Event] button, and then click the [Alarm] tab to display the "Alarm" page.



■ Pop-up notification

Determine whether to display the pop-up notification window at an alarm occurrence or not.
ON: The pop-up notification window will be displayed at an alarm occurrence.
OFF: The pop-up notification window will not be displayed at an alarm occurrence.
Default: ON

■ Buzzer

Determine whether to sound the buzzer at an alarm occurrence or not.
OFF: The buzzer will not sound at an alarm occurrence.
Once: The buzzer will sound once at an alarm occurrence.
Succession: The buzzer will sound continually at an alarm occurrence.
Default: Once

Note:

- Buzzer sounding duration cannot be specified.

■ Alarm camera direct live window (It will become available after the license for the WV-ASE201 is added.)

Determine whether to automatically display live images from the camera in which an alarm occurred on the live window or not.
ON: Live images from the camera in which an alarm occurred will automatically be displayed on the live window at an alarm occurrence.
OFF: Images currently being displayed on the live window will not be switched to images from the camera in which an alarm occurred at an alarm occurrence.
Default: OFF

Note:

- When selecting "ON" for "Alarm camera direct live window", set "Live window (multi-screen) with the maximum number of areas" to other than "--". Refer to the "Settings relating to the system" section (☞ page 23) for further information.

■ Number of alarm camera direct live window (It will become available after the license for the WV-ASE201 is added.)

Select the screen pattern used to display images from the camera in which an alarm occurred when "ON" is selected for "Alarm camera direct live window".
This setting is available only when "ON" is selected for "Alarm camera direct live window".
1-screen: Displays live images from the camera in which an alarm occurred on a 1-screen.
3A-screen: Displays live images from the camera in which an alarm occurred on a 3A-screen.
3B-screen: Displays live images from the camera in which an alarm occurred on a 3B-screen.
4-screen: Displays live images from the camera in which an alarm occurred on a 4-screen.
6-screen: Displays live images from the camera in which an alarm occurred on a 6-screen.
7-screen: Displays live images from the camera in which an alarm occurred on a 7-screen.
9-screen: Displays live images from the camera in which an alarm occurred on a 9-screen.
10-screen: Displays live images from the camera in which an alarm occurred on a 10-screen.
13-screen: Displays live images from the camera in which an alarm occurred on a 13-screen.
16-screen: Displays live images from the camera in which an alarm occurred on a 16-screen.

The following are available after the license for the WV-ASE202 is added.
25-screen: Displays live images from the camera in which an alarm occurred on a 25-screen.
36-screen: Displays live images from the camera in which an alarm occurred on a 36-screen.
49-screen: Displays live images from the camera in which an alarm occurred on a 49-screen.
64-screen: Displays live images from the camera in which an alarm occurred on a 64-screen.
Default: 4-screen

■ Auto reset wait time (It will become available after the license for the WV-ASE201 is added.)

Select the wait time to reset the alarm and return to the previously displayed images before switching to live images from the camera in which an alarm occurred.
OFF/10s/20s/30s/1min/5min
Default: 20s

Note:
- When "OFF" is selected, the alarm will not automatically be reset.
  Refer to WV-ASM200 Operating Instructions (PDF) for how to reset the alarm.

■ Auto change of map (It will become available after the license for the WV-ASE201 is added.)

Determine whether to automatically change the display to the map that has registered the camera in which an alarm occurred or not.
ON: Enable auto change of map
OFF: Disable auto change of map
Default: OFF

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".

■ [Set] button

The edited settings will be saved and applied.

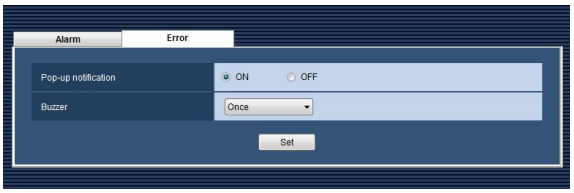
Settings for the event action upon an error occurrence [Error]

Configure the settings of the event action that is to be taken upon a recorder error/network error occurrence. There are 2 event actions; displaying a message and sounding the buzzer.

Note:

- It is necessary to configure the "Panasonic alarm" setting to receive event notifications from the device. Refer to the "Settings relating to the communication" section (☞ page 111) for further information.

Click the [Event] button, and then click the [Error] tab to display the "Error" page.



■ Pop-up notification

Determine whether to display the error notification window at an error occurrence or not.
ON: The event notification window will be displayed at an error occurrence.
OFF: The event notification window will not be displayed at an error occurrence.
Default: ON

■ Buzzer

Determine whether to sound the buzzer at an error occurrence or not.
OFF: The buzzer will not sound at an alarm occurrence.
Once: The buzzer will sound once at an alarm occurrence.
Succession: The buzzer will sound continually at an alarm occurrence.
Default: Once

Note:

- Buzzer sounding duration cannot be specified.

■ [Set] button

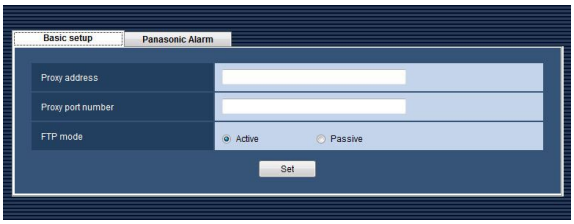
The edited settings will be saved and applied.

Settings relating to the communication

Configure the settings relating to the communication required to use this software.

Network settings [Basic setup]

Click the [Comm] button, and then click the [Basic setup] tab to display the "Basic setup" page.
Configure the settings of "Proxy address", "Proxy port number" and "FTP mode".



■ Proxy address

Enter the IP address of the proxy server.
Enter the address using up to 255 alphanumeric characters including "." (dot) and "-" (hyphen).

■ Proxy port number

Enter the port number of the proxy server.
Enter a number from 1 to 65535.

■ FTP mode

Select "Active" or "Passive" for the FTP mode.
Default: Active

■ [Set] button

The edited settings will be saved and applied.

Note:

- The edited network settings will not be correctly configured even when "ON" is selected for "Proxy server" if no value is entered for "Proxy address" and "Proxy port number".
- When using the proxy server, use an HTTP proxy server. Download function via an HTTP proxy server is available through this software normally uses the FTP function of the recorder.

Settings relating to the alarm notification from the device using Panasonic alarm protocol [Panasonic Alarm]

Click the [Comm] button, and then click the [Panasonic Alarm] tab to display the "Panasonic Alarm" page. Configure the settings of "Alarm notification (Panasonic alarm protocol notification)" and "Port number".

■ Alarm notification (Panasonic alarm protocol notification)

Determine whether to receive an alarm/error notification from the device or not.
ON: An alarm/event notification from the device will be received.
OFF: An alarm/event notification from the device will not be received.
Default: ON

■ Port number

Enter the port number used to receive Panasonic alarm protocol.
Enter a number from 1 to 65535.
Default: 1818

Important:

- It is necessary to make the selected port number available when "Windows Firewall" of Windows Vista or Windows 7 is on. Refer to the "Exceptional settings of Windows Firewall" section (☞ page 143) for how to make the selected port number available.

■ [Set] button

The edited settings will be saved and applied.

Settings relating to the controller

When a camera, a group, and a sequence are selected from the system controller, assignment of a number to the camera, group, and sequence to be used is required before their selections.

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

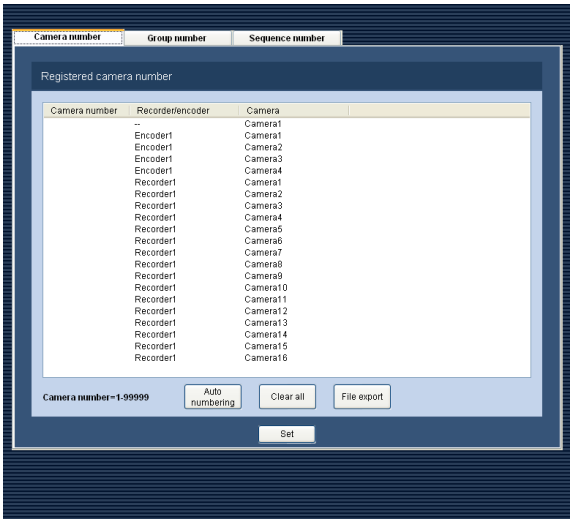
Camera number setting [Camera number]

Assign camera numbers to the registered camera names*.
* When "On" is selected for "Quad streams/Cropping mode" of the camera, the channel titles will be displayed instead of the camera title.

Manual assignment

Step 1

Click the [Controller] button.
→ The "Camera number" page will be displayed.



The following are descriptions about each item displayed on the "Camera number" page.

■ [Auto numbering] button

Camera numbers will automatically be assigned in order of the displayed list.

■ [Clear all] button

All the camera numbers displayed on the list will be cleared.

■ [File export] button

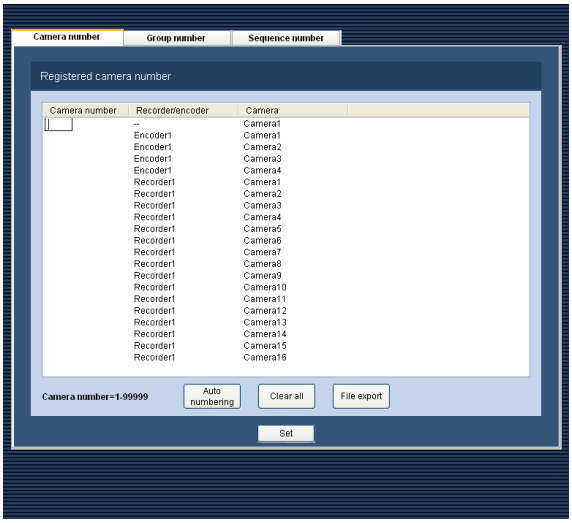
The displayed list will be saved as a file in CSV format.

■ [Set] button

The edited settings will be saved and applied.

Step 2

Click the desired camera title, and then click the camera number column respective to the clicked camera title.
→ The clicked column will become editable.



Step 3

Enter the desired camera number.
Enter a number from 1 to 99999.

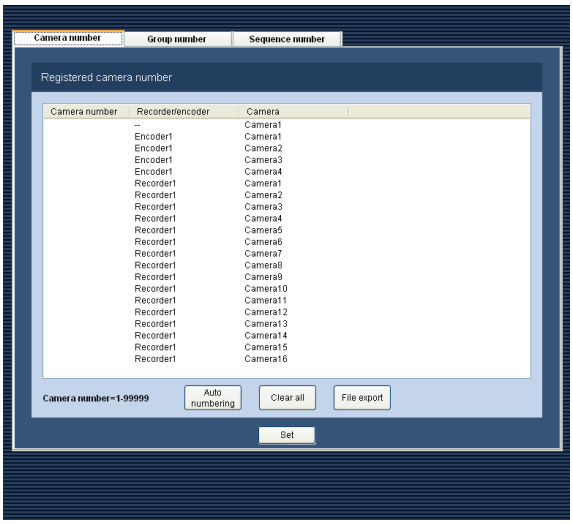
Step 4

Click the [Set] button.

Auto numbering

Step 1

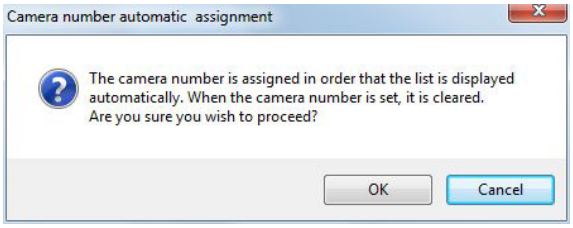
Display the "Camera number" page. (☞ page 113)



Step 2

Click the [Auto numbering] button.

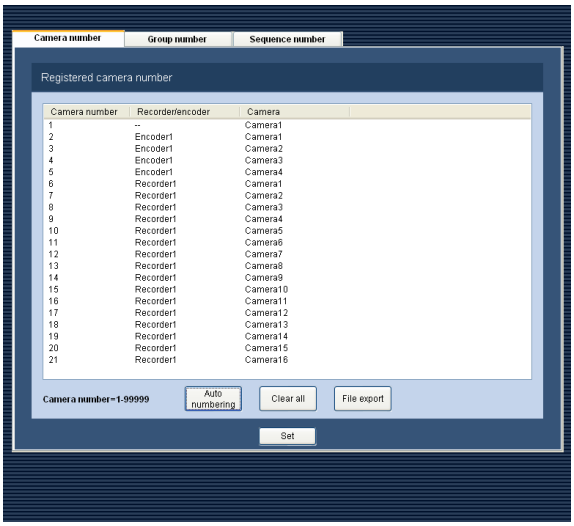
→ The confirmation window will be displayed.



Step 3

Click the [OK] button.

→ Camera numbers will automatically be assigned in order of the displayed list.



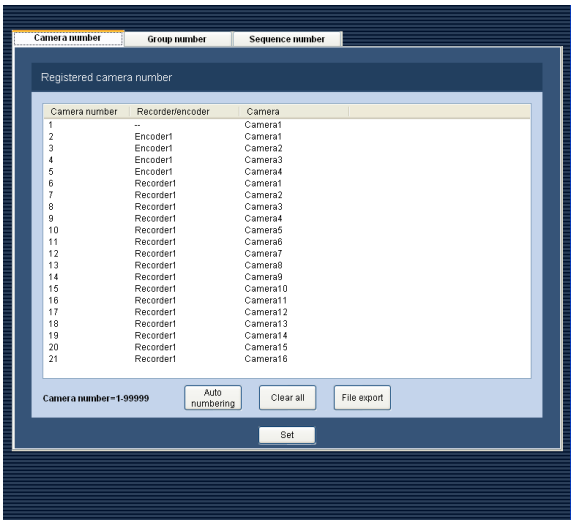
Step 4

Click the [Set] button.

Export the camera number list as a file

Step 1

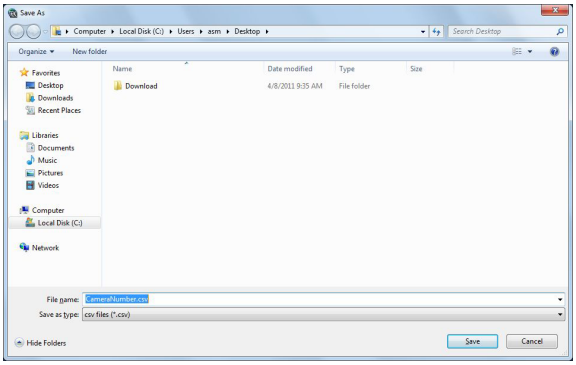
Display the "Camera number" page. (☞ page 113)



Step 2

Click the [File export] button.

→ The "Save As" window will be displayed.



Step 3

Click the [Save] button after designating the destination folder.

→ The camera number list will be saved in CSV format.

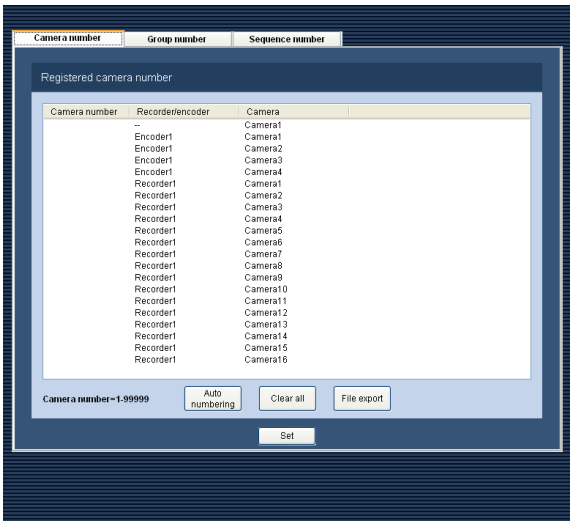
Group number setting [Group number]

Assign group numbers to the registered group names.

Manual assignment

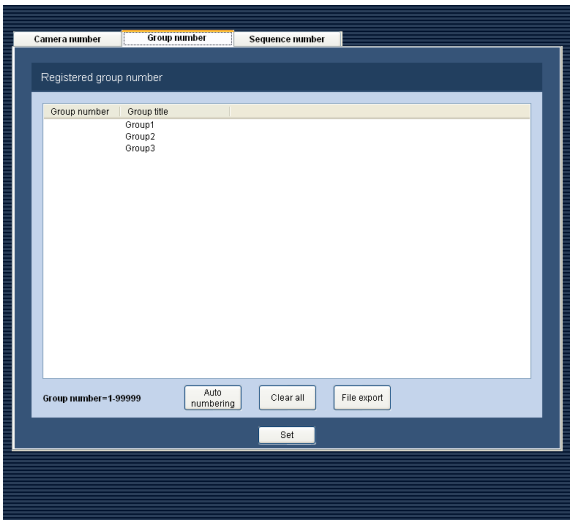
Step 1

Click the [Controller] button.



Step 2

Click the [Group number] tab.
→ The "Group number" page will be displayed.



The following are descriptions about each item displayed on the "Group number" page.

■ [Auto numbering] button

Group numbers will automatically be assigned in order of the displayed list.

■ [Clear all] button

All the group numbers displayed on the list will be cleared.

■ [File export] button

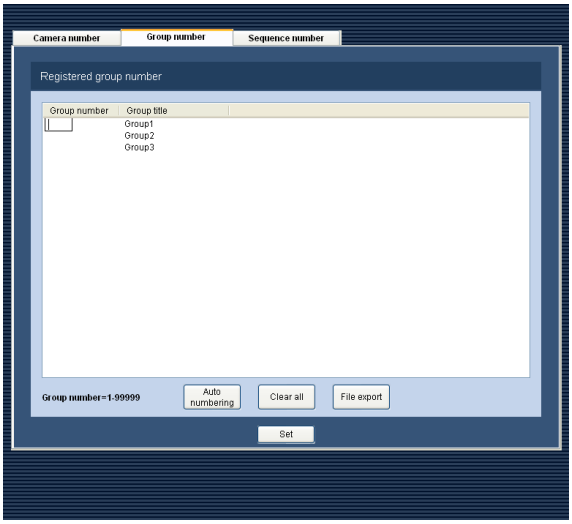
The displayed list will be saved as a file in CSV format.

■ [Set] button

The edited settings will be saved and applied.

Step 3

Click the desired group title, and then click the group number column respective to the clicked group title.
→ The clicked column will become editable.



Step 4

Enter the desired group number.
Enter a number from 1 to 99999.

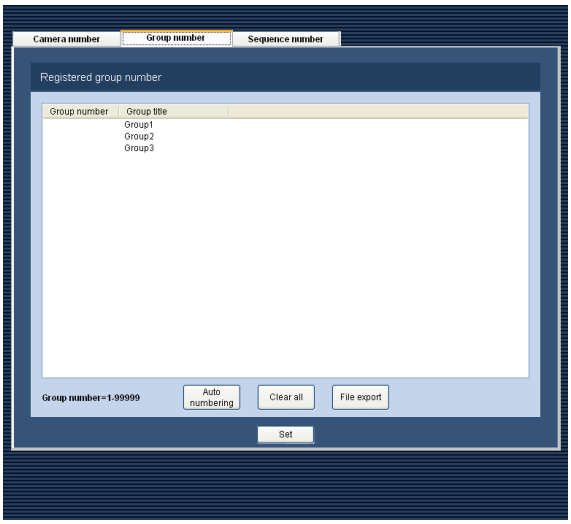
Step 5

Click the [Set] button.

Auto numbering

Step 1

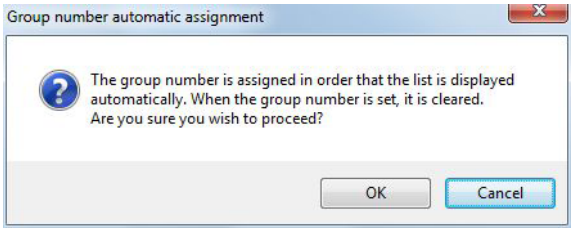
Display the "Group number" page. (☞ page 116)



Step 2

Click the [Auto numbering] button.

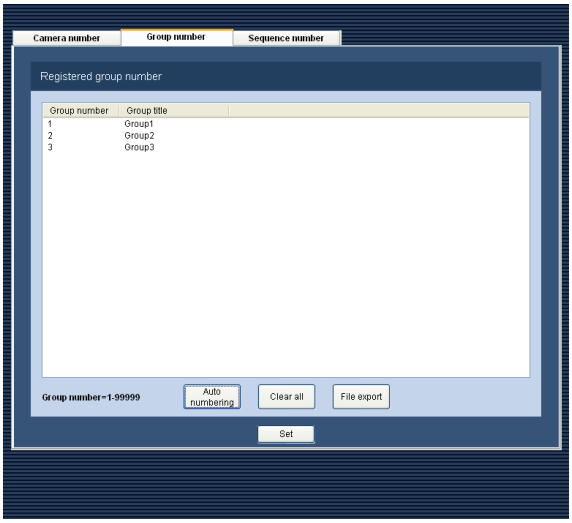
→ The confirmation window will be displayed.



Step 3

Click the [OK] button.

→ Group numbers will automatically be assigned in order of the displayed list.



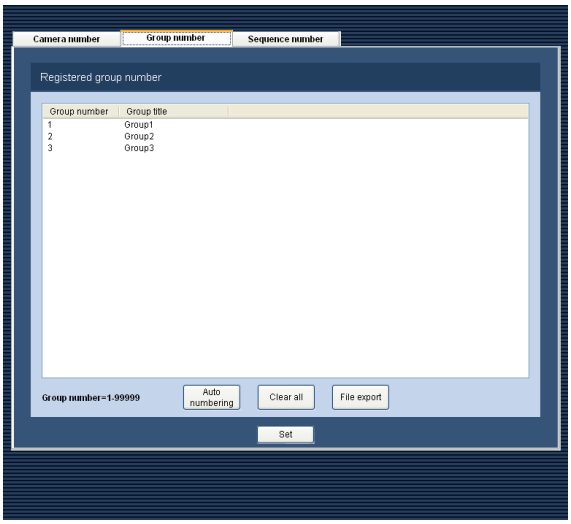
Step 4

Click the [Set] button.

Export the group number list as a file

Step 1

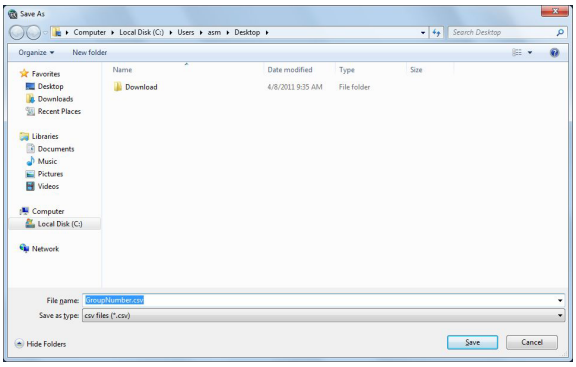
Display the "Group number" page. (☞ page 116)



Step 2

Click the [File export] button.

→ The "Save As" window will be displayed.



Step 3

Click the [Save] button after designating the destination folder.

→ The group number list will be saved in CSV format.

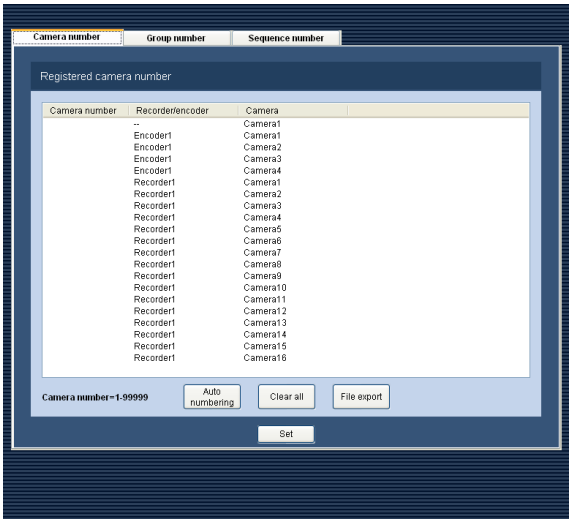
Sequence number setting [Sequence number]

Assign sequence numbers to the registered sequence names.

Manual assignment

Step 1

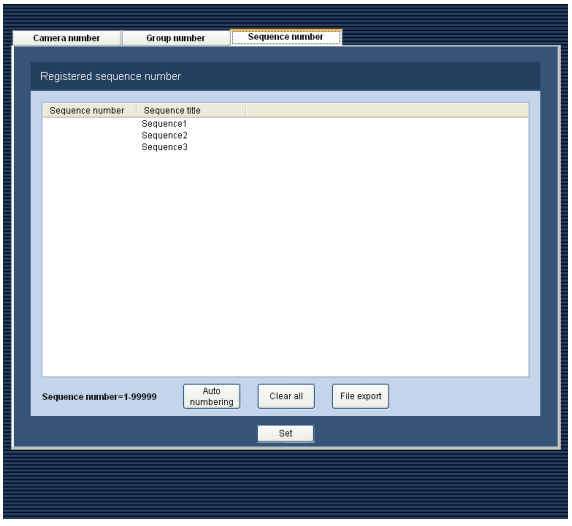
Click the [Controller] button.



Step 2

Click the [Sequence number] tab.

→ The "Sequence number" page will be displayed.



The following are descriptions about each item displayed on the "Sequence number" page.

■ [Auto numbering] button

Sequence numbers will automatically be assigned in order of the displayed list.

■ [Clear all] button

All the sequence numbers displayed on the list will be cleared.

■ [File export] button

The displayed list will be saved as a file in CSV format.

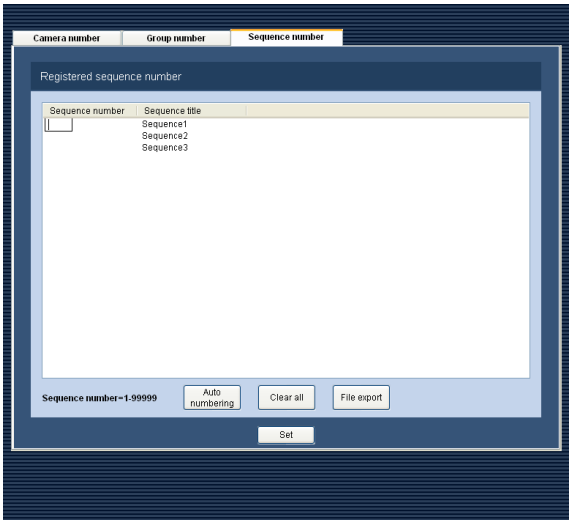
■ [Set] button

The edited settings will be saved and applied.

Step 3

Click the desired sequence title, and then click the sequence number column respective to the clicked sequence title.

→ The clicked column will become editable.



Step 4

Enter the desired sequence number.
Enter a number from 1 to 99999.

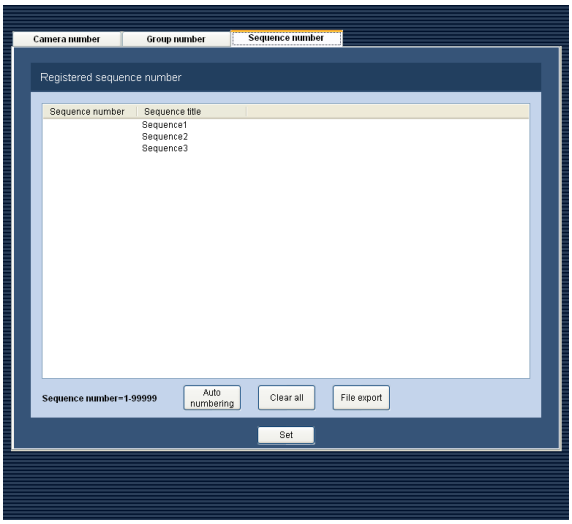
Step 5

Click the [Set] button.

Auto numbering

Step 1

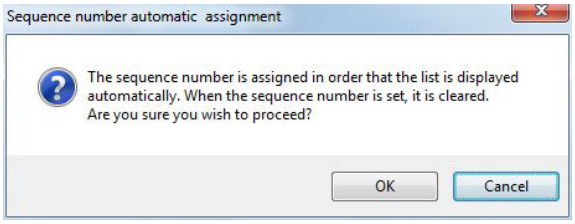
Display the "Sequence number" page. (☞ page 119)



Step 2

Click the [Auto numbering] button.

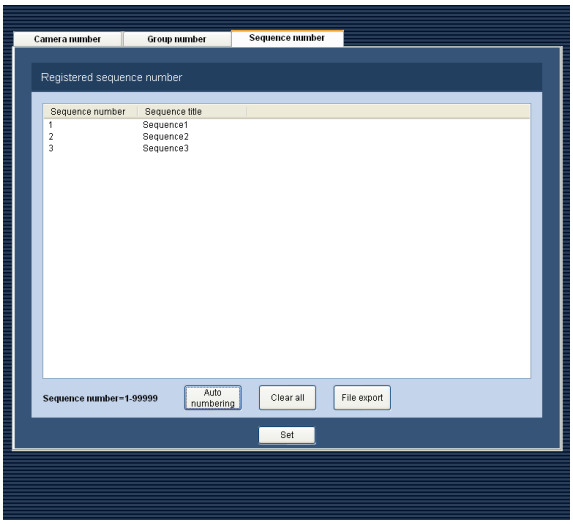
→ The confirmation window will be displayed.



Step 3

Click the [OK] button.

Sequence numbers will automatically be assigned in order of the displayed list.



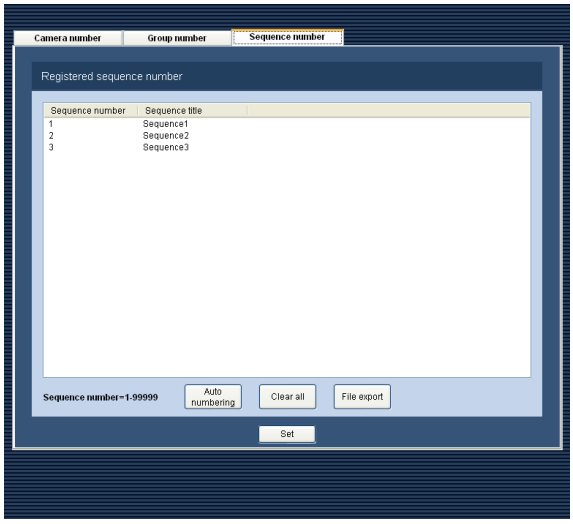
Step 4

Click the [Set] button.

Export the Sequence number list as a file

Step 1

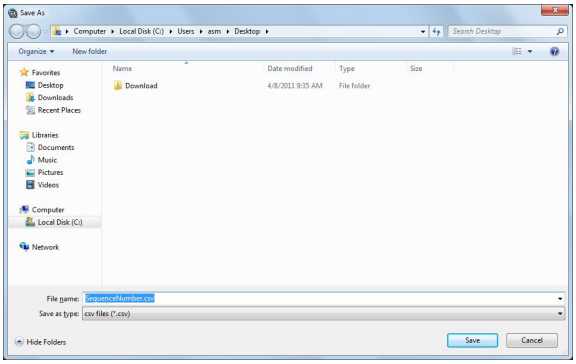
Display the "Sequence number" page. (☞ page 119)



Step 2

Click the [File export] button.

→ The "Save As" window will be displayed.



Step 3

Click the [Save] button after designating the destination folder.

→ The sequence number list will be saved in CSV format.

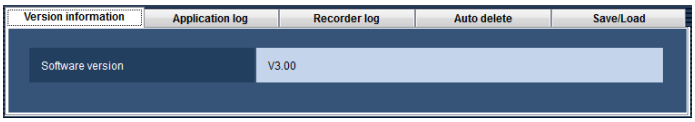
Settings relating to the maintenance

The following can be performed on the "Maintenance" page.

- Display the version of this software
- Display/save the application log
- Download/display the recorder log
- Auto deletion of logs and set the retention period of logs
- Save/load the setup file of the setup software

Display the version of this software [Version information]

Click the [Maintenance] button, and then click the [Version information] tab to display the "Version information" page.



■ Software version

Version of this software will be displayed.

Display/save the application log [Application log]

It is possible to search the logs filed in this software and display/save them. The displayed contents will vary depending on the selected log type. Refer to the "Descriptions of the application log list" section (☞ page 125) for further information about the descriptions and contents of the logs displayed on the log list window. The logs filed in this software and their contents are as follows.

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
System log:	A log that contains system information of this software
Operation log:	A log that contains operation history of this software

Note:

- The application logs will be kept on being filed until reaching their maximum number of logs that can be stored.
  After reaching the maximum number, the older logs will be overwritten in order. Refer to the "Descriptions of the application log list" section (☞ page 125) for the maximum number of the logs that can be stored.

Display the application logs

To display logs of each type, select the log type from the drop-down list.

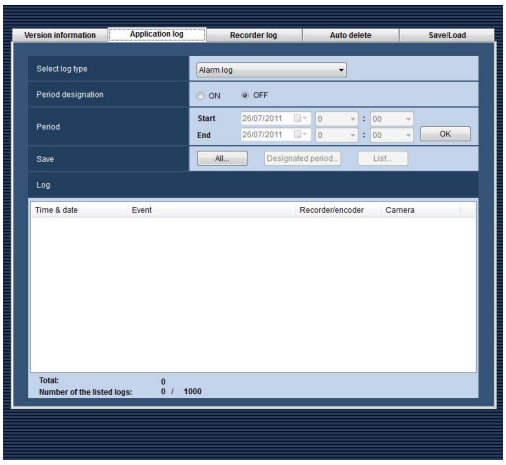
Step 1

Click the [Maintenance] button.

Step 2

Click the [Application log] tab.

→ The "Application log" page will be displayed.



The following are descriptions about each item displayed on the "Application log" page.

■ Select log type

Select the log type from the following.
Alarm log/Device error log/Network error log/System log/Operation log
Default: Alarm log

■ Period designation

Determine whether to designate a period when logs have been filed.
ON: Logs filed in the designated period will be displayed.
OFF: All filed logs will be displayed.
Default: OFF

■ Start

Select the start time of a period.

■ End

Select the end time of a period.

■ [OK] button

Logs filed in the designated period will be displayed in the log list display area.

■ [All...] button

All logs of the selected log type will be saved as a file in the CSV format.

■ [Designated period...] button

Logs of the selected log type that filed only in the designated period will be saved as a file in the CSV format.

■ [List...] button

The logs displayed in the log list display area will be saved as a file in the CSV format.

■ Log

Descriptions of the log will be displayed.
Up to 1000 logs can be displayed.

Note:

- Descriptions of the listed logs differ depending on the log type. Refer to the "Descriptions of the application log list" section (☞ page 125) for further information.

■ Total:

Total number of the logs filed in the designated period will be displayed.

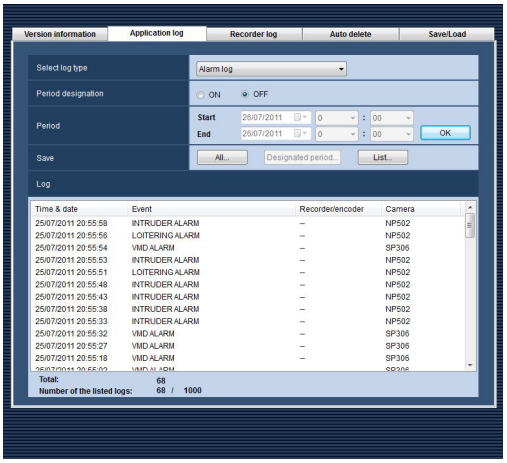
■ Number of the listed logs

Number of the logs currently displayed in the log list display area.

Step 3

Click the [OK] button after designating a period.

→ Logs filed in the designated period will be displayed in the log list display area.



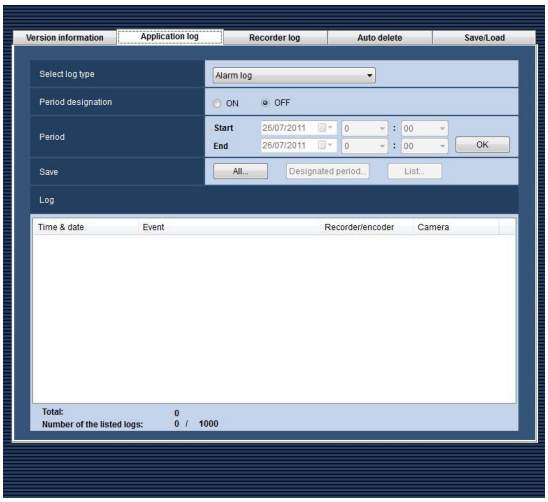
Save the application logs

The logs displayed in the log list display area can be saved in a designated folder as a file in the CSV format. Logs to be saved as a file differ depending on the clicked button as follows.

[All...] button:	All the listed logs will be saved as a file.
[Designated period...] button:	Logs filed in the designated period will be saved as a file.
[List...] button:	Only the logs displayed in the log list display area will be saved as a file.

Step 1

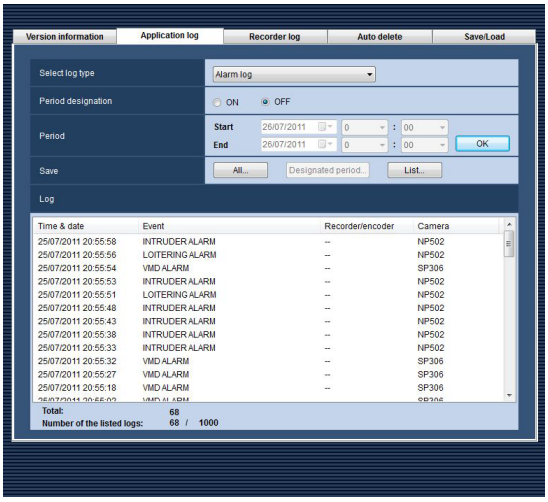
Display the "Application log" page.



Step 2

Click the [OK] button after designating a period. Refer to the "Display the application logs" section (☞ page 123) for further information.

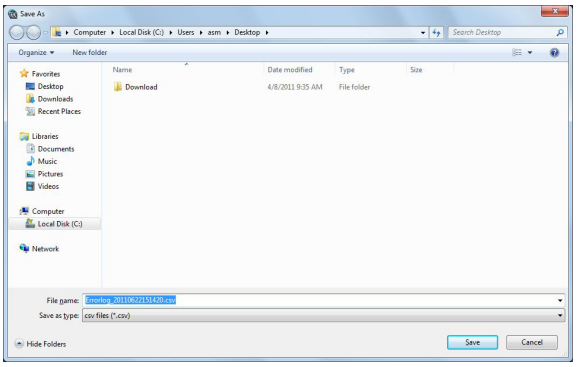
→ Logs filed in the designated period will be displayed in the log list display area.



Step 3

Click the desired button ([All...] button/[Designated period...] button/[Listed...] button) according to the logs to be saved.

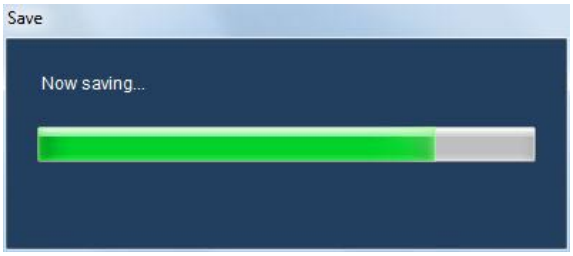
→ The "Save As" window will be displayed.



Step 4

Click the [Save] button after designating the destination folder.

→ The saving status window will be displayed.



The saving status window will automatically close and the "Application log" page will be displayed when the saving of the file is completed.

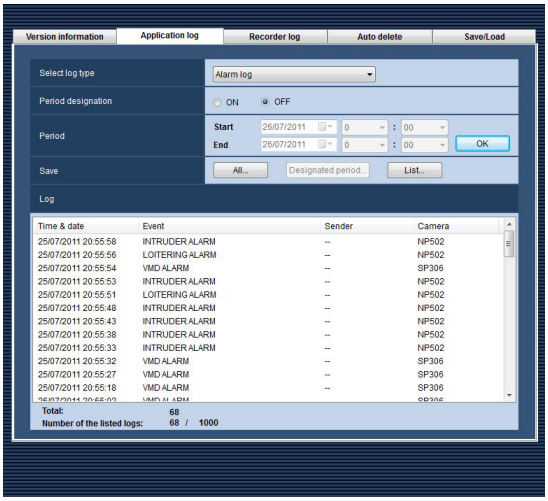
Note:

- When the number of logs to be saved as a file is more than 10000, the file to be saved will automatically be divided into a several files.

Descriptions of the application log list

Alarm log

The alarm log will be filed each time an alarm occurred.
Up to 30000 alarm logs can be stored and up to 1000 alarm logs can be displayed.



■ 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

Descriptions of the alarm will be displayed.

■ Sender

The title of the device in which the alarm occurred will be displayed.

Note:

- When an alarm occurred in a camera that is not registered in the recorder, "--" will be displayed.

■ Camera

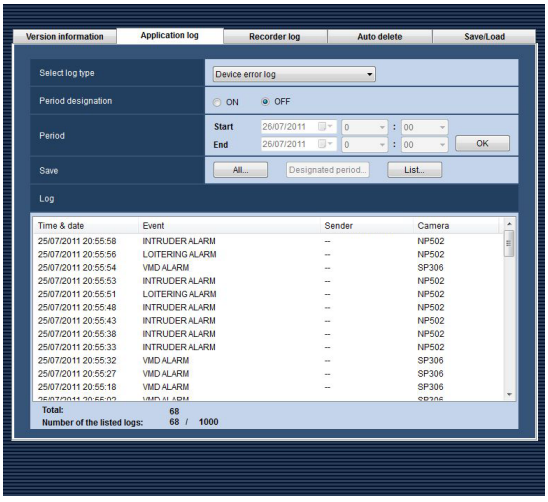
The title of the camera in which the alarm occurred will be displayed.

Note:

- When an alarm occurred in the camera while "On" is selected for "Quad streams/Cropping mode" of the camera, the channel titles will be displayed instead of the camera title.

Device error log

The device error log will be filed each time an error occurred in the device.
Up to 1000 device error logs can be stored and up to 1000 device error logs can 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

Descriptions of the error occurred in the device will be displayed.

■ Sender

The title of the device in which the error occurred will be displayed.

Note:

- When a device error occurred in a camera is not registered in the recorder, "--" will be displayed.

■ Camera

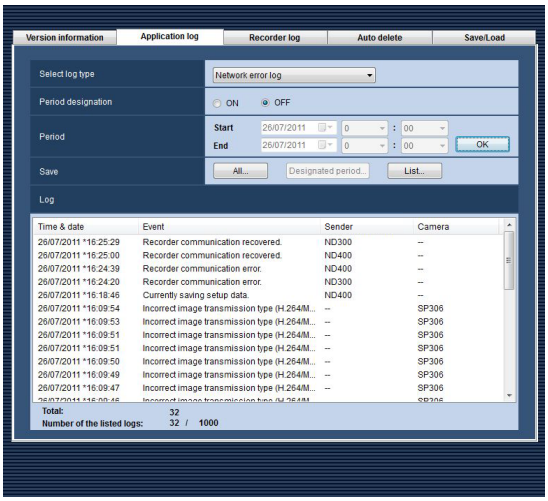
The title of the camera in which the error occurred will be displayed.

Note:

- When a device error occurred in the camera while "On" is selected for "Quad streams/Cropping mode" of the camera, the channel titles will be displayed instead of the camera title.

Network error log

The network error log will be filed each time a network error occurred. Up to 1000 network error logs can be stored and up to 1000 network error logs can be displayed.



■ Time & date

Time and date of the network error occurrence will be displayed. The time & date will be followed by an asterisk "*" when the daylight saving time is applied.

■ Event

Descriptions of the network error will be displayed.

■ Sender

The title of the device in which the network error occurred will be displayed.

Note:

- When a network error occurred in a camera that is not registered in the recorder, "--" will be displayed.

■ Camera

The title of the camera in which the network error occurred will be displayed.

Note:

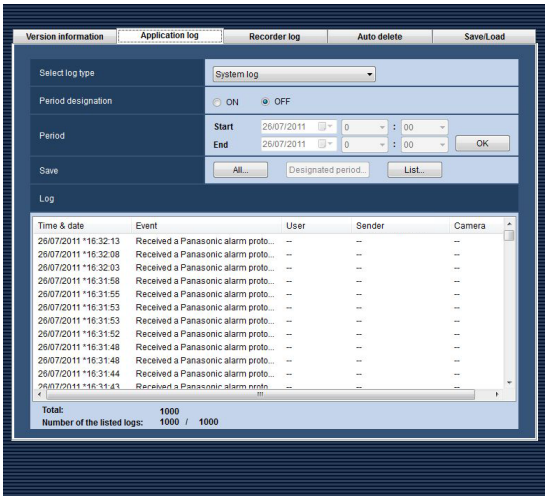
- When a network error occurred in the camera while "On" is selected for "Quad streams/ Cropping mode" of the camera, the channel titles will be displayed instead of the camera title.

The following are the network error logs to be filed.

Log	Description
Recorder communication recovered.	Filed when the connection to the recorder was recovered.
Recorder communication error.	Filed when failed to connect to the recorder.
Undefined reply. (from the recorder)	Filed when received an undefined reply from the recorder.
Recorder user authentication error	Filed when failed to authenticate the user to connect to the recorder.
Maximum concurrent access.	Filed when failed to connect to the recorder due to the concurrent access limit.
Host authentication error.	Filed when failed to authenticate the host to connect to the recorder.
Encoder communication recovered.	Filed when the communication with the encoder recovered.
Encoder communication error	Filed when failed to connect to the encoder.
Camera communication recovered.	Filed when the connection to the camera was recovered.
Camera communication error.	Filed when failed to connect to the camera.
Undefined reply. (from the camera)	Filed when received an undefined reply from the camera or the encoder.
Camera authentication error.	Filed when failed to authenticate the user to connect to the camera or the encoder.
Microphone connection error	Filed when failed to connect to the microphone.
Microphone connection recovery	Filed when the connection to the microphone was recovered.
Port number duplication.	Filed when port numbers are redundant. When a port number is manually assigned to each camera in the unicast mode, use caution not to assign the same number to different cameras.

System log

The system log will be filed each time the status of the system changed. Up to 1000 system logs can be stored and up to 1000 system logs can be displayed.



■ Time & date

Time and date when the status of the system changed will be displayed. The time & date will be followed by an asterisk "*" when the daylight saving time is applied.

■ Event

Descriptions of the status will be displayed.

■ User

The name of the user who operated this software will be displayed.

■ Sender

The title of the device which has been operated by the user will be displayed.

Note:

- When the device in operation is a camera that is not registered in the recorder, "--" will be displayed.

■ Camera

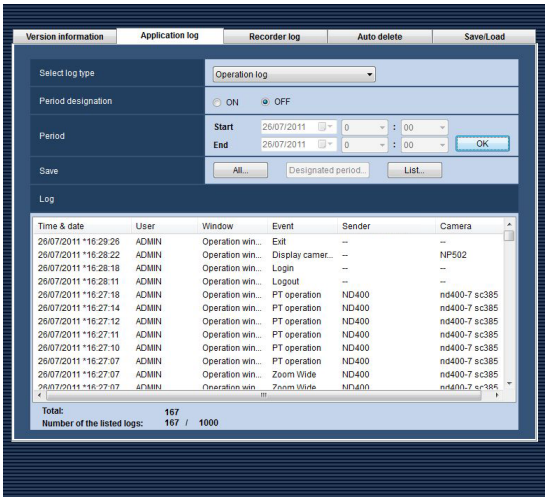
The title of the camera which has been operated by the user will be displayed.

Note:

- When a camera has been operated while "On" is selected for "Quad streams/Cropping mode" of the camera, the channel titles will be displayed instead of the camera title.

Operation log

The application log will be filed each time a user operates this software. Up to 100000 operation logs can be stored and up to 1000 operation logs can be displayed.



■ Time & date

Time and date when a user operated this software will be displayed. The time & date will be followed by an asterisk "*" when the daylight saving time is applied.

■ User

The name of the user who operated this software will be displayed.

■ Window

The window type of this software that the user operated will be displayed.

■ Event

Descriptions of the operation will be displayed.

■ Sender

The title of the device which has been operated by the user will be displayed.

Note:

- When a camera has been operated while "On" is selected for "Quad streams/Cropping mode" of the camera, the channel titles will be displayed instead of the camera title.

■ Camera

The title of the camera which has been operated by the user will be displayed.

Note:

- When a Fisheye camera has been operated and "Quad streams" is selected for the setting of the camera, the channel titles will be displayed instead of the camera title.

The following are the system logs to be filed.

Log	Description
Operation software started.	Filed when the operation software was started.
Operation software ended.	Filed when the operation software was closed.
User logged in to the operation software.	Filed when a user logged in the operation software.
User logged out of the operation software.	Filed when a user logged out of the operation software.
Received a Panasonic alarm protocol from an unknown model.	Filed when received Panasonic alarm protocol from an unknown model.
Received a Panasonic alarm protocol from an unknown device.	Filed when received Panasonic alarm protocol from an unknown device.
An error occurred on Panasonic alarm protocol reception.	Filed when an error occurred in the reception of Panasonic alarm protocol.
An error occurred on Panasonic alarm protocol processing.	Filed when failed to implement the Panasonic alarm protocol received from the device.
Failed to delete the operation log file.	Filed when failed to delete the operation logs automatically.
An unexpected error has occurred. The operation software has been restarted to continue monitoring.	Filed when an unexpected error occurred and the operation software was restarted.
Live software started.	Filed when the live window was started.
Live software ended.	Filed when the live window was closed.
Operation software user login error.	Filed when a user failed to log in the software due to the failure to read the user information.
A Panasonic alarm protocol reception start error.	Filed when an error occurred at the start of the reception of Panasonic alarm protocol.
Received an illegal Panasonic alarm protocol. (Unknown category ID)	Filed when the category of Panasonic alarm protocol is illegal.
Received an illegal Panasonic alarm protocol. (Unknown message ID)	Filed when the message ID of Panasonic alarm protocol is illegal.
Setup software started.	Filed when the setup software was started.
Setup software ended.	Filed when the setup software was closed.
User logged in the setup software.	Filed when a user logged in the setup software.
An unexpected error has occurred. The setup software has been restarted to continue monitoring.	Filed when an unexpected error occurred and the setup software was restarted.
Setup software user login error.	Filed when failed to read out the user information and login to the setup software failed.

Log	Description
An unexpected error has occurred. The live software has been restarted to continue monitoring.	Filed when an unexpected error occurred and the live software was restarted.
Download failed (FTP connection error)	Filed when download of the file failed due to the error in the FTP access to the recorder. In this case, the following are possible causes. → The FTP access is blocked by the firewall. → The FTP port cannot be opened due to the concurrent access limit of the recorder.
Download failed (FTP login error)	Filed when the FTP login to the recorder failed. In this case, the following is a possible cause. → The FTP login is impossible because the user name and password configured for device registration are not the same as the administrator and password of the recorder.
Download failed (excessive FTP connections)	Filed when download of the file failed due to the concurrent FTP access limit of the recorder.
Download failed (other FTP errors)	Filed when an error occurred during the FTP access to the recorder.

Display/save the recorder log [Recorder log]

It is possible to download the recorder logs filed in each recorder and display/save them.
The logs downloaded from the recorder and their contents are as follows.

Error log:	A log that contains error history of the recorder.
Access log:	A log that contains access history of the recorder
Event log:	A log that contains history of event occurrences in the recorder.
Network log:	A log that contains network error history of the recorder.

Note:
- It is impossible to download recorder logs from ASR500.

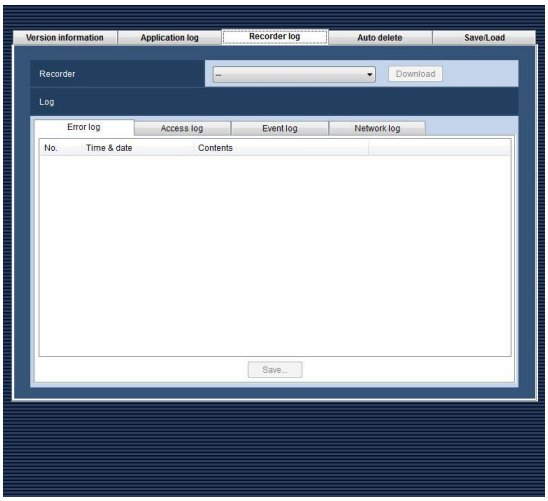
Download the recorder log

Step 1

Click the [Maintenance] button.

Step 2

Click the [Recorder log] tab.
→ The "Recorder log" page will be displayed.



The following are descriptions about each item displayed on the "Recorder log" page.

■ Recorder

Select the recorder from which the recorder log is to be downloaded.

■ [Download] button

The recorder log filed in the selected recorder will be downloaded.

■ Log

Descriptions of the log will be displayed. "No.", "Time & date" and "Contents" will be displayed for every log.

Note:
- "Protocol" will also be displayed for "Network log".
- When displaying "Event log", "Event" will be displayed instead of "Contents".

■ [Error log]/[Access log]/[Event log]/ [Network log] tabs

The downloaded logs will be sorted by the log type and the sorted logs will be displayed in the respective tabs.

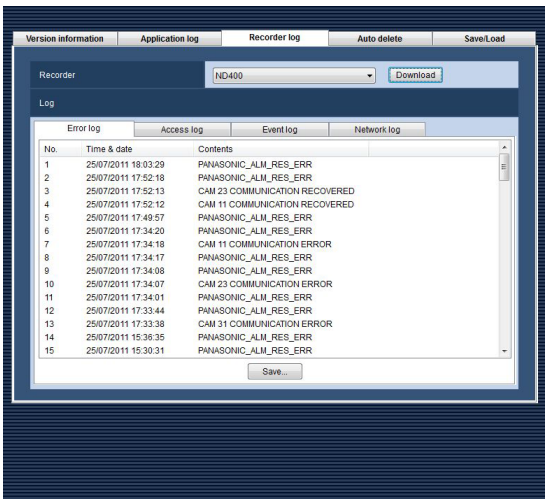
■ [Save...] button

The displayed logs will be saved as a file.

Step 3

Select the recorder and click the [Download] button.

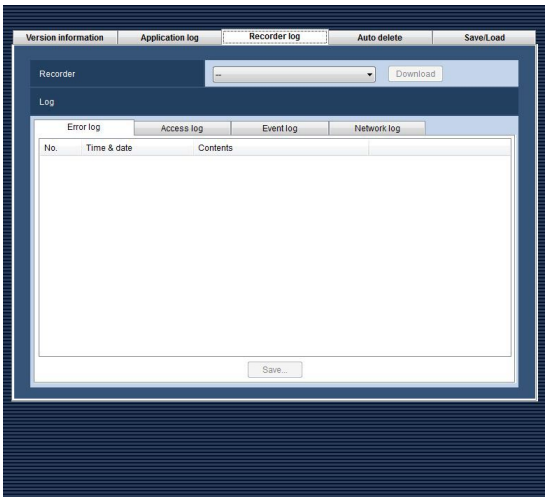
→ The cursor will turn into an hourglass.
When the download is completed, the downloaded log list will be displayed.



Save the recorder log

Step 1

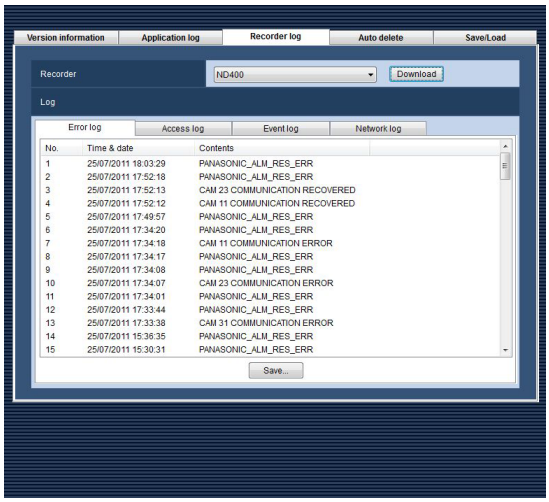
Display the "Recorder log" page. (☞ page 130)



Step 2

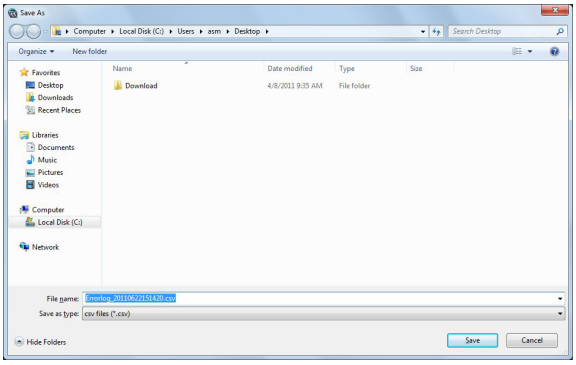
Select the recorder and click the [Download] button.

→ The cursor will turn into an hourglass.
When the download is completed, the log list will be displayed.



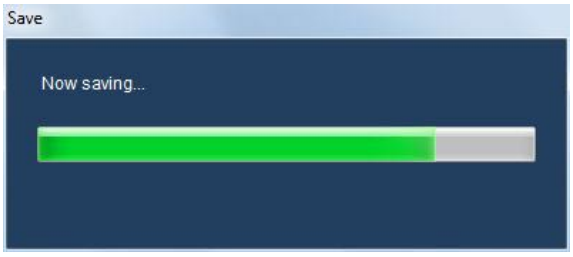
Step 3

Click the tab of the desired log type, and the click the [Save…] button.
→ The "Save As" window will be displayed.



Step 4

Click the [Save] button after designating the destination folder.
→ The saving status window will be displayed.

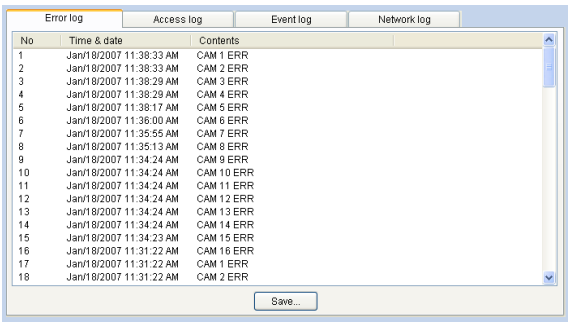


The saving status window will automatically close and the "Recorder log" page will be displayed when the saving of the file is completed.

Descriptions of the recorder log list

The recorder log will be filed each time an error including a network error occurred in the login recorder or in the camera connected the login recorder. Time and date when the error occurred and its descriptions will be displayed for each log. The maximum number of logs that can be stored differs depending on the log type as follows.

Error log:	Up to 100 logs (1000 logs when the recorder in use is the NV200 or the NV300)
Access log:	Up to 100 logs
Event log:	Up to 750 logs
Network log:	Up to 1000 logs (100 logs when the recorder in use is the NV200 or the NV300)



■ No.

The log number will be displayed. The younger number is given to the newer log.

■ Time & date

Time and date when the log has been filed will be displayed.

■ Protocol

The protocol type will be displayed.

■ Contents

Descriptions about the error occurred in the recorder, access information of the recorder, description about the network error occurred in the recorder, etc. will be displayed.

■ Event

Descriptions of the event will be displayed.

Delete the operation log automatically [Auto delete]

Determine whether to automatically delete the filed operation logs or not.
When deleting the operation logs, set the retention period of the logs.
The operation logs will automatically be deleted when the set retention period has passed.

Important:

- When the PC is not started, the operation log will not be deleted even when the set retention period has been passed.

Note:

- Refer to the "Descriptions of the application log list" section (☞ page 125) for the maximum number of the logs that can be stored.

Click the [Maintenance] button, and then click the [Auto delete] tab to display the "Auto delete" page.

■ Operation log auto deletion

Determine whether to automatically delete the operation log or not.
ON: The operation log will be automatically deleted.
OFF: The operation log will not automatically deleted.
Default: ON

■ File retention period

Select the file retention period from the following. This setting can be configured only when "ON" is selected for "Operation log auto deletion".
31 days/92 days/184 days/366 days
Default: 92 days

■ [Set] button

The edited settings will be saved and applied.

Save/load/initialize the setup data or logs [Save/Load]

The setup data can be saved/loaded/initialized and the application logs can also be initialized.

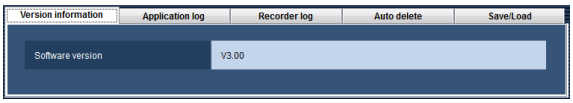
Save the setup data as a backup

Important:

- Back up the setup data periodically by copying it onto an external hard disk drive or other storage medium. When the hard disk drive on the PC in use is damaged, it may be impossible to recover the setup data.
- If the setup data is saved, all the application logs will also be saved.

Step 1

Click the [Maintenance] button.

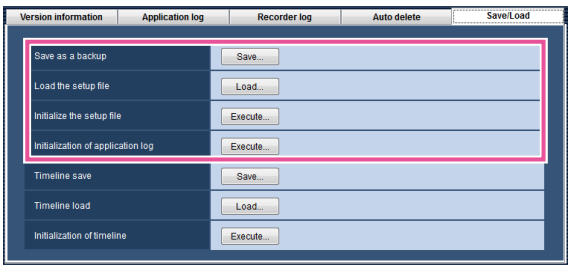


Step 2

Click the [Save/Load] tab.

→ The "Save/Load" page will be displayed.

The following are descriptions about each item displayed on the "Save/Load" page.



■ [Save...] button

The "Save As" window will be displayed.

■ [Load...] button

The "Open" window will be displayed.

■ [Execute...] button

The initialization start confirmation window for the setup data will be displayed.

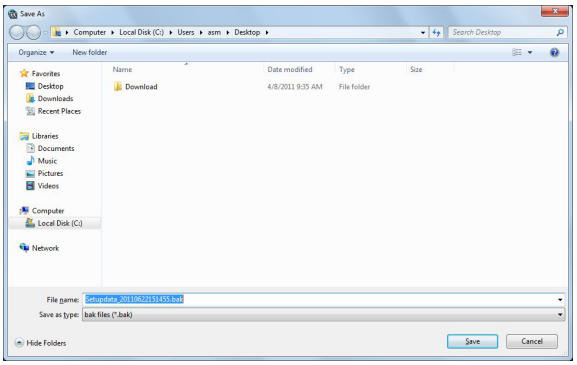
■ [Execute...] button

The initialization start confirmation window for the application logs will be displayed.

Step 3

Click the [Save...] button of "Save as a backup".

→ The "Save As" window will be displayed.



Step 4

Click the [Save] button after designating the destination folder.

→ Saving of the setup data will start.

Step 5

Click the [OK] button on the confirmation window.

→ The "Save/Load" page will be displayed again.

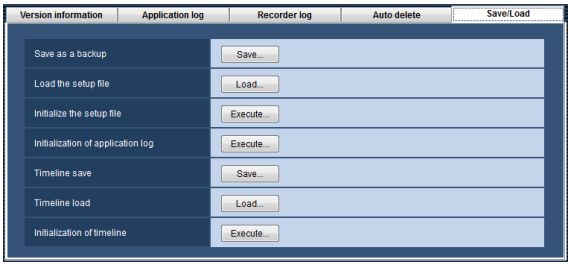
Load the setup file

Important:

- When loading of the setup file starts, all the setup data of this software will be overwritten.
- When loading of the setup file is completed, the setup software will restart.
- If the setup data is loaded, all the saved application logs will also be overwritten.
  * If the saved application logs are older, the setup data will also be overwritten with the older one.

Step 1

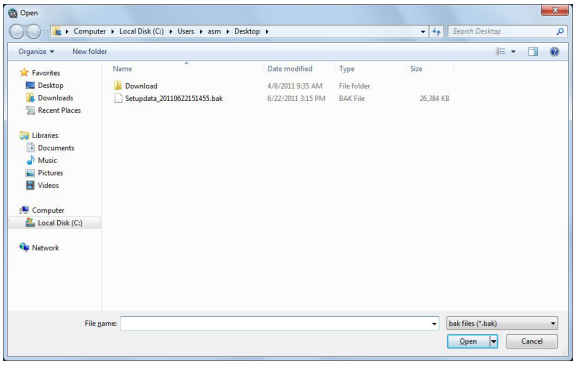
Display the "Save/Load" page. (☞ page 134)



Step 2

Click the [Load...] button of "Load the setup file".

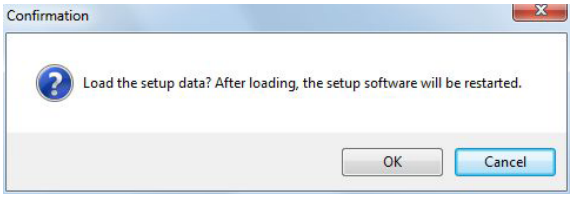
→ The "Open" window will be displayed.



Step 3

Select the setup file to be loaded, and then click the [Open] button.

→ The loading start confirmation window will be displayed.



Step 4

Click the [OK] button on the confirmation window.

→ Loading of the setup file will start.

Step 5

When the loading completion window is displayed, click the [OK] button.

→ The setup software will be restarted and the login window will be displayed.

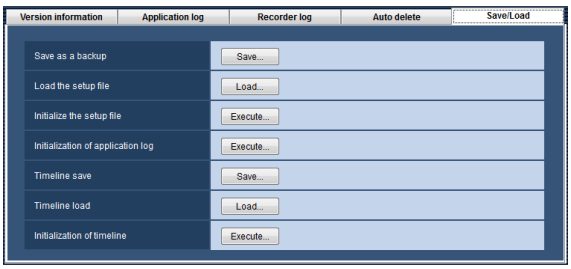
Initialize the setup data

Important:

- When initialization of the setup file starts, all the setup data of this software will be initialized. It is recommended to back up the setup file before initializing the setup file.
- When initialization of the setup file is completed, the setup software will restart.

Step 1

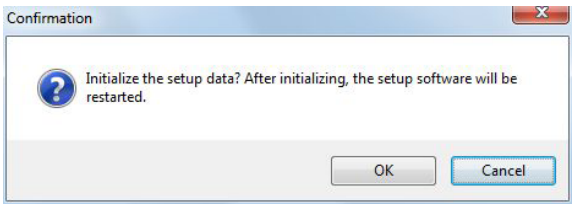
Display the "Save/Load" page. (☞ page 134)



Step 2

Click the [Execute...] button of "Initialize the setup file".

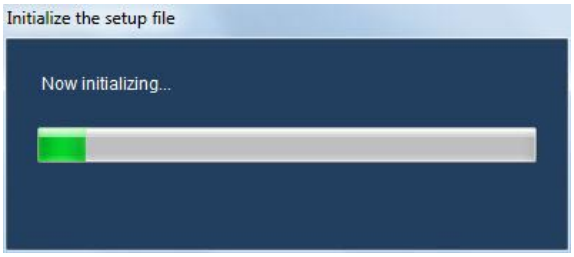
→ The initialization start confirmation window will be displayed.



Step 3

Click the [OK] button.

→ Initialization of the setup file will start.
When the initialization is completed, the confirmation window will be displayed.



Step 4

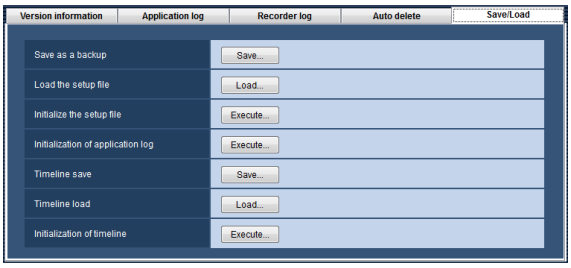
Click the [OK] button on the confirmation window.

→ The setup software will be restarted and the login window will be displayed.

Initialize the application logs

Step 1

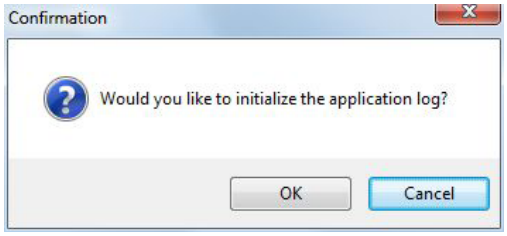
Display the "Save/Load" page. (☞ page 134)



Step 2

Click the [Execute...] button of "Initialization of application log".

→ The initialization start confirmation window will be displayed.



Step 3

Click the [OK] button.

→ Initialization will start.

Step 4

When the loading completion window is displayed, click the [OK] button.

Save/load/initialize the timeline data [Save/Load]

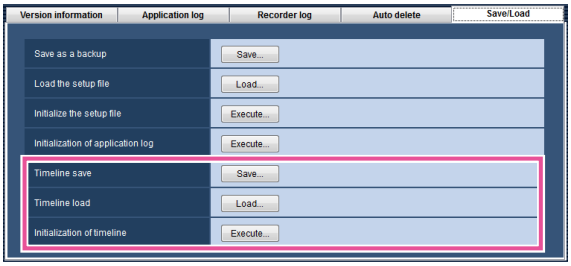
Save, load, initialize the timeline data obtained by this software.

Save the timeline

Important:
- Back up the timeline data along with setup data periodically by copying it onto an external hard disk drive or other storage medium.
- This function is available only when "Master" is selected for "Timeline DB".

Step 1

Display the "Save/Load" page. (☞ page 134)



The details are as follows.

■ [Save...] button

The "Save As" window will be displayed.

■ [Load...] button

The "Open" window will be displayed.

■ [Execute...] button

Displays the confirmation window for starting initialization of timeline data.

Step 2

Click the [Save...] button of "Timeline save".
→ The "Save As" window will be displayed.

Step 3

Click the [Save] button after designating the destination folder.
→ Saving of the setup data will start.

Step 4

Click the [OK] button on the confirmation window.
→ The "Save/Load" page will be displayed again.

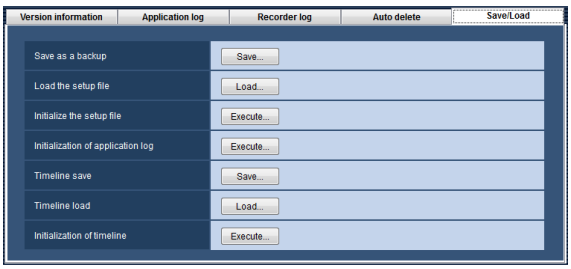
Load the timeline

Important:

- When loading of the timeline data is started, all the timeline data will be overwritten.
  * If the saved application logs are older, the data will be overwritten with the older one.

Step 1

Display the "Save/Load" page. (☞ page 134)



Step 2

Click the [Load...] button of "Timeline load".

→ The "Open" window will be displayed.

Step 3

Select the setup file to be loaded, and then click the [Open] button.

→ The loading start confirmation window will be displayed.

Step 4

Click the [OK] button on the confirmation window.

→ Loading of the setup file will start.

Step 5

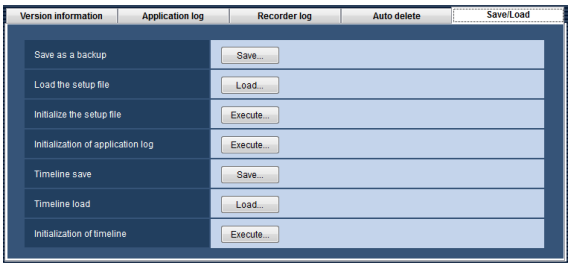
Click the [OK] button on the confirmation window.

Initialize the timeline (Clear)

Recording information collected in the PC by the timeline DB will be initialized (cleared).

Step 1

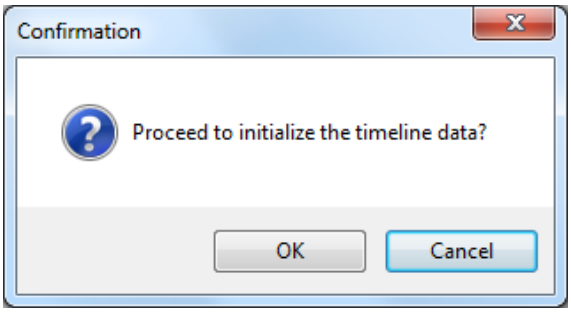
Display the "Save/Load" page. (☞ page 134)



Step 2

Click the [Execute...] button of "Initialization of timeline".

→ The initialization start confirmation window will be displayed.



Step 3

Click the [OK] button.

→ Initialization will start.

Step 4

Click the [OK] button on the confirmation window.

Settings relating to the license registration

As well as registering the authentic license to use this software, the license to add the extension software (option) will be registered. To register these licenses, it is necessary to enter the "Registration Key" obtained from the Key Management System.
Refer to the provided "Activation Key Card" to obtain the "Registration Key" of this software. Refer to the provided "Activation Key Card" provided with the extension software to obtain the "Registration Key" of the extension software.

Important:
- To activate the license to register, it is necessary to click the [Registration] button. For the registration of the license, this software will be automatically restarted.
- Before registering the license for the WV-ASE201, WV-ASE202 or WV-ASE203, make sure that the model number of the PC Software Package already registered is WV-ASM200.
- Be sure to perform the registration procedure for this software on the PC in use.

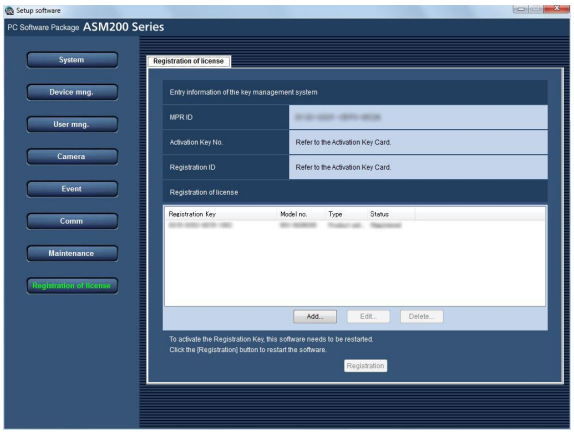
Register the license

The "Registration Key" to use this software and add the extension software (option) will be registered.

Note:
- To use the demo edition (available for 90 days) of the Extension Software, register the "Registration Key" of the demo edition listed in the Readme.txt on the provided CD-ROM.

Step 1

Click the [Registration of license] button.
→ The "Registration of license" window will be displayed.



The details are as follows.

■ Entry information of the key management system

This is the ID number required to obtain the "Registration Key". The Activation Key Card provided with this software describes how to access the key management system.

■ MPR ID

This is the ID number to identify the PC in which the software is installed. The number will be required when obtaining the "Registration Key" from the Key Management System.

■ Activation Key No.

The number will be required when obtaining the "Registration Key" from the Key Management System. The Activation Key Card provided with the software describes the number.

■ Registration ID

The number will be required when obtaining the "Registration Key" from the Key Management System. The Activation Key Card provided with the software describes the number.

■ Registration of license

The entered "Registration Key" and the license information already registered will be displayed in list form.

■ [Add...] button

Display the "Entry of Registration Key" window.

■ [Edit...] button

Display the "Registration Key" selected from the list form for the registration of license.

Note:
- It is impossible to modify the content of the license already registered.

■ [Delete...] button

Delete the "Registration Key" selected from the list form for the registration of license.

Note:
- It is impossible to delete the content of the license already registered.

■ [Registration] button

The license registration will be performed.

Step 2

Click the [Add...] button.
→ The "Entry of Registration Key" window will be displayed.

The details are as follows.

■ Registration Key

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

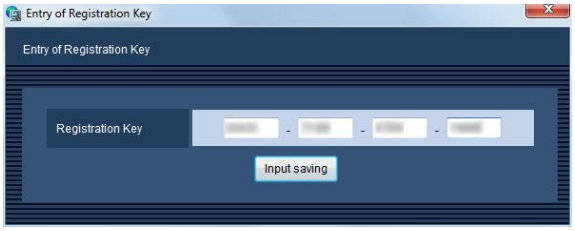
■ [Input saving] button

Save the entered "Registration Key" temporarily for registration.

Important:
- Registration of license cannot be completed only by clicking the [Input saving] button. Be sure to click the [Registration] button on the "Registration of license" window.

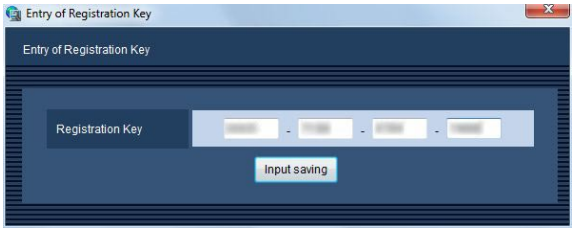
Step 3

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



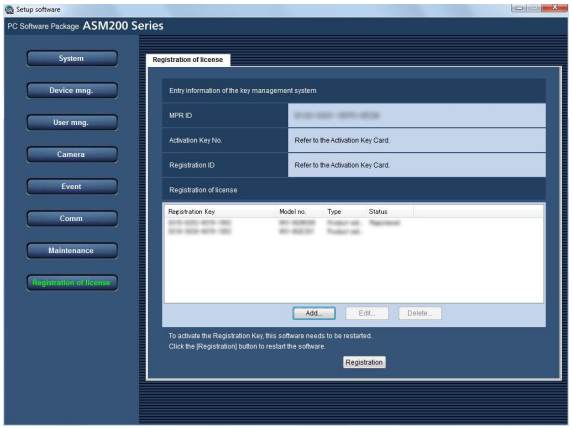
Step 4

Click the [Input saving] button.



Step 5

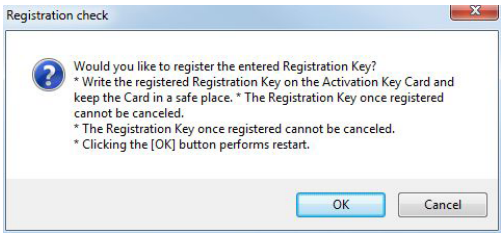
Click the [Registration] button after checking the information of the entered "Registration Key".



Note:
- The entered "Registration Key" will be deleted if the display is changed to another window without clicking the [Registration] button or if the setup software is closed.

Step 6

Click the [OK] button. To cancel registration, click the [Cancel] button.



Important:
- It is impossible to deactivate the "Registration Key" once registered. Confirm that registration is correct.
- When the [OK] button is clicked, this software will be automatically restarted.

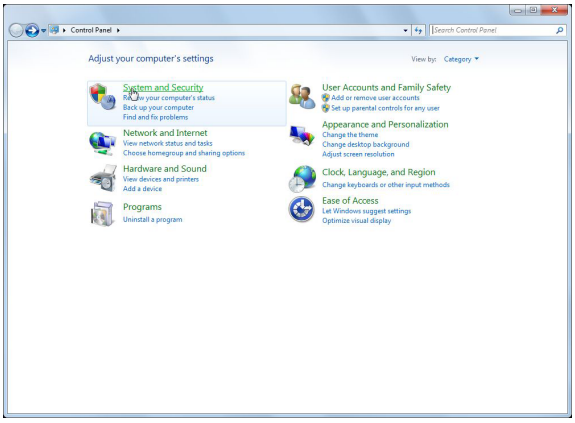
Exceptional settings of Windows Firewall

When displaying live images, using the download function or the Panasonic alarm protocol function (alarm notification, event notification), configure the exceptional settings of Windows Firewall.

Step 1

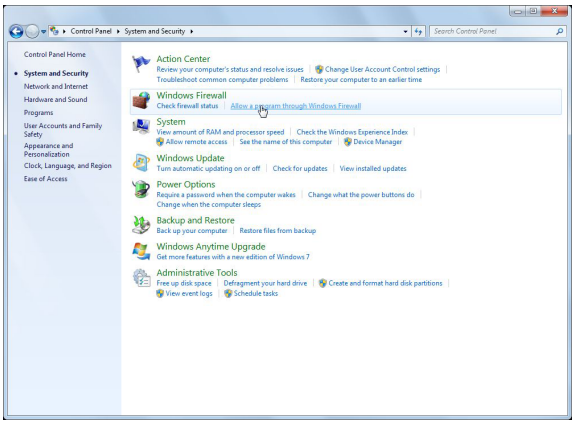
Click [System and Security] on the "Control Panel".

→ The "System and Security" window will be displayed.



Step 2

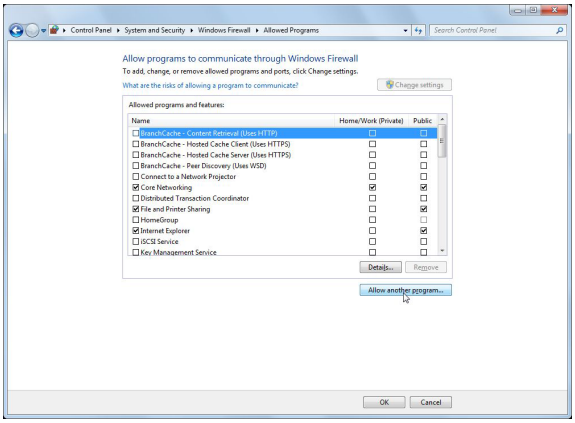
Click [Windows Firewall] - [Allow A Program Through Windows Firewall].



→ The "Allowed Programs" window will be displayed.

Step 3

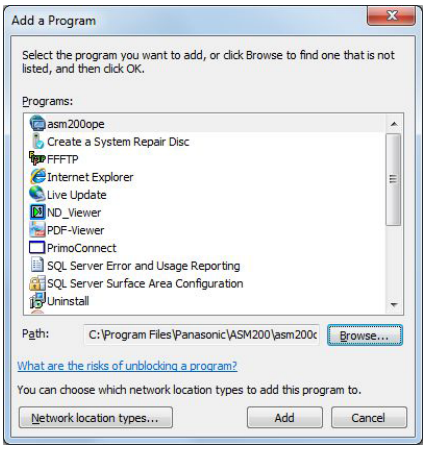
Click the [Allow another Program] button.



→ The "Add a Program" window will be displayed.

Step 4

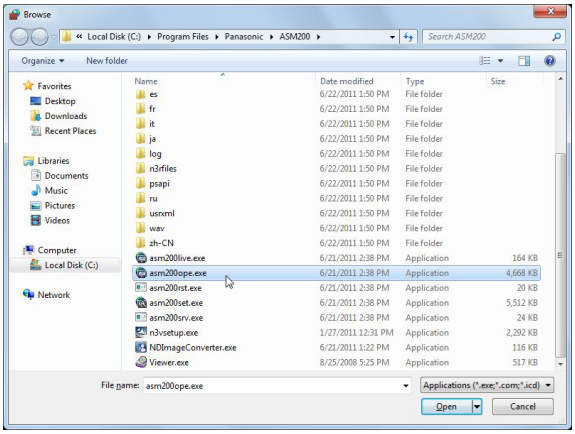
Click the [Browse...] button.



→ The "Browse" window will be displayed.

Step 5

Select "asm200ope.exe" and click the [Open] button.

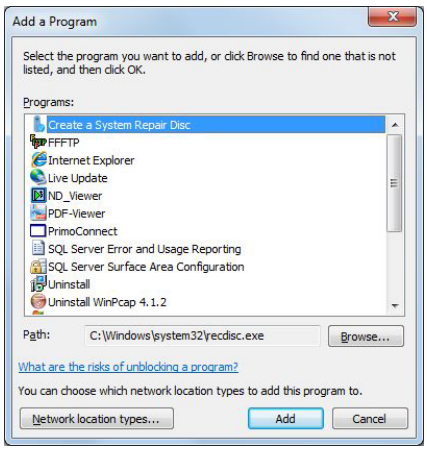


Note:

- When installed with the ALL option in a PC on which 32-bit OS is running, the executable files, etc. will be saved on the following folder.
  C:\Program Files\Panasonic\ASM200
- When installed in a PC on which 64-bit OS is running, "Program Files" will actually be displayed as "Program Files (x86)".

Step 6

Select "asm200ope.exe", and click the [Add] button.



Step 7

Perform steps 3 - 6 in the same manner to add "asm200live.exe", "asm200liveIP.exe", "asm200srv.exe", "asm200tlsrv.exe", "sqlservr.exe", "sqlbrowser.exe" and "File and Printer Sharing".

Note:

- When installed with the ALL option in a PC on which 32-bit OS is running, the executable files, etc. will be saved on the following folder.
  C:\Program Files\Panasonic\ASM200
  asm200liveIP.exe:
  C:\Program Files\Panasonic\ASM200
  asm200srv.exe:
  C:\Program Files\Panasonic\ASM200
  asm200tlsrv.exe:
  C:\Program Files\Panasonic\ASM200
  sqlservr.exe:
  C:\Program Files\Microsoft SQL Server\MSSQL11.ASM200\MSSQL\Binn
  sqlbrowser.exe:
  C:\Program Files\Microsoft SQL Server\90\Shared
- When installed in a PC on which 64-bit OS is running, "Program Files" will actually be displayed as "Program Files (x86)".
- "sqlserver.exe" and "sqlbrowser.exe" are displayed as "SQL Server Windows NT" and "SQL Browser Service EXE" respectively on the window in step 6.

Step 8

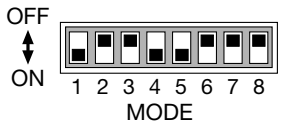
Click the [OK] button.

Settings of System Controller (WV-CU950 series)

When controlling the WV-ASM200 through the WV-CU950 connected to the PC via Ethernet, which installed the WV-ASM200, the following settings of the WV-CU950 are necessary.

MODE Switch Setting

Set the MODE switch on the rear panel of WV-CU950 to the Ethernet mode as shown below after turn off.



CONTROLLER NO. Switch Setting

Maintain the switch setting as "1 (factory default position)".

Network Setting

Before performing the network setting, set the MODE Switch setting to the Ethernet mode.

Perform the network setting in the following procedure.

Step 1

Turn off the power.

Step 2

Turn on the power while holding down the 0, MON (ESC), and CAM (SET) buttons.
"Admin Password" will appear on the LCD to enter the password.

```
IP Addr Setup Mode
Admin Password _____
```

Step 3

Enter the administrator password.
The password entered will be displayed as "∗" marks.

```
IP Addr Setup Mode
Admin Password *****
```

Notes:

- The factory default is "650".
- To delete a character, press the CLEAR button.

Step 4

Press the CAM (SET) button.
If the password entered is correct, "IP Address" setting form will appear on the LCD.

```
IP Address
192.168.  0.210
```

Note:

- If the password entered is wrong, "IP Addr Setup Mode" will appear on the LCD again to reenter the password.

Step 5

Select an item you wish to set up by rotating the JogDial. Then, press the CAM (SET) button.

IP Address

```
IP Address
192.168.  0.210
```

The IP address of system controller
The factory default is "192.168.0.210".

Subnet Mask

```
Subnet Mask
255.255.255.  0
```

The subnet mask of system controller
The factory default is "255.255.255.0".

Gateway

```
Gateway
192.168.  0.  1
```

The default gateway of system controller
The factory default is "192.168.0.1".

Keyboard ID

```
Keyboard ID
  1
```

(No need for setup) Remain the factory default.
The factory default is "1".

Server IP Address

```
Server IP Address
192.168.  0.200
```

The IP address of connected PC
The factory default is "192.168.0.200".

Server ID

```
Server ID
  1
```

(No need for setup) Remain the factory default.
The factory default is "1".

Step 6

When setting "IP Address", "Subnet Mask", "Gateway", or "Server IP Address", move the cursor to a position to be edited by rotating the shuttle ring clockwise or counterclockwise.

```
IP Address
192.168.  0.210
```

Step 7

Enter the desired address (nnn.nnn.nnn.nnn) by pressing the numeric buttons. (Available value for "nnn": 0 to 255)

Note:

- If you have entered a wrong address, press the CLEAR button.

Step 8

Press the MON (ESC) button.
The selected parameter will be determined, and the LCD display will return from the editing mode to the display mode. (Refer to Step 5.)

Step 9

After you have completed the settings, turn off the power.

Configure the settings related to the fisheye network camera installation method

Configure the settings related to how the camera is installed on the web browser for the camera in use instead of this software.
Refer to the operating instructions of the camera for how to operate.

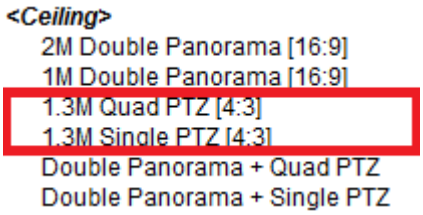
When the camera is installed on the ceiling

Step 1

Display the setup window on the web browser for the camera to be installed on the ceiling.

Step 2

Select "<Ceiling> 1.3M Quad PTZ [4:3]" or "<Ceiling> 1.3M Single PTZ [4:3]" for "Image/Audio" - "JPEG/H.264" - "Image capture mode", and click the [Set] button.



Step 3

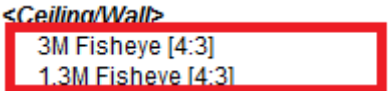
1Select "Off" for "Basic" - "Upside-down", and click the [Set] button.

Step 4

When wishing to activate the angular field of view set for the camera, register the preset positions.
Refer to the operating instructions of the camera for how to register the preset positions.

Step 5

Select "3M Fisheye [4:3]" or "1.3M Fisheye [4:3]" for "Image capture mode", and click the [Set] button.



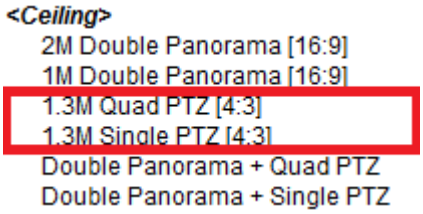
When the camera is installed upside down

Step 1

Display the setup window on the web browser for the camera to be installed upside down.

Step 2

Select "<Ceiling> 1.3M Quad PTZ [4:3]" or "<Ceiling> 1.3M Single PTZ [4:3]" for "Image/Audio" - "JPEG/H.264" - "Image capture mode", and click the [Set] button.



Step 3

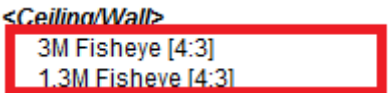
Select "On" for "Basic" - "Upside-down", and click the [Set] button.

Step 4

When wishing to activate the angular field of view set for the camera, register the preset positions.
Refer to the operating instructions of the camera for how to register the preset positions.

Step 5

Select "3M Fisheye [4:3]" or "1.3M Fisheye [4:3]" for "Image capture mode", and click the [Set] button.



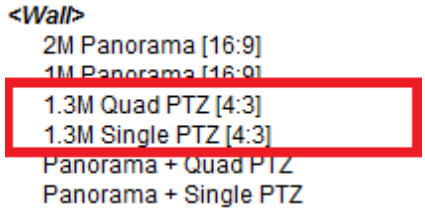
When the camera is installed on the wall

Step 1

Display the setup window on the web browser for the camera to be installed on the wall.

Step 2

Select "<Wall> 1.3M Quad PTZ [4:3]" or "<Wall> 1.3M Single PTZ [4:3]" for "Image/Audio" - "JPEG/H.264" - "Image capture mode", and click the [Set] button.

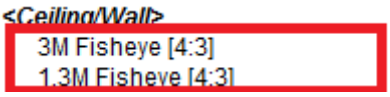


Step 3

When wishing to activate the angular field of view set for the camera, register the preset positions. Refer to the operating instructions of the camera for how to register the preset positions.

Step 4

Select "3M Fisheye [4:3]" or "1.3M Fisheye [4:3]" for "Image capture mode", and click the [Set] button.



Note:

- The above describes taking 3M Fisheye cameras as an example.
- When the installation method is changed, it is necessary to register the preset positions again for the new installation method.
- When the angular field of view is changed with the panning, tilting or zooming control, the displayed preset positions may deviate since the older angular field of view information is maintained. To check the registered preset positions, select the camera from the device tree, move the camera to the "HOME" preset position, and check the angular field of view.

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.

Symptom	Cause/solution	Ref. pages
Cannot register a recorder.	• The number of the registered recorders already reached the maximum possible number (100 recorders). Delete an unnecessary recorder and register a recorder newly.	5, 38, 48
Cannot register an encoder.	• The number of the registered encoders already reached the maximum possible number (64 encoders). Delete an unnecessary encoder and register an encoder newly.	5, 49, 55
Cannot register the camera.	• The number of the registered cameras already reached the maximum possible number (256 cameras). Delete an unnecessary camera and register a camera newly.	5, 56, 64
Cannot register a microphone.	• The number of the registered microphones already reached the maximum possible number (256 microphones). Delete an unnecessary microphone and register a microphone newly.	5, 65, 69
Cannot register a user.	• The number of the registered users already reached the maximum possible number (32 users). Delete an unnecessary user and register a user newly.	5, 80, 84
Cannot register a group.	• The number of the registered groups already reached the maximum possible number (400 groups). Delete an unnecessary group and register a group newly.	5, 86, 88
Cannot register a sequence.	• The number of the registered sequences already reached the maximum possible number (10 sequences). Delete an unnecessary sequence and register a sequence newly.	5, 89, 91
Cannot register a map.	• The number of the registered maps already reached the maximum possible number (100 maps). Delete an unnecessary map first, and then register newly.	5, 96, 98
The camera title displayed in the tool tip is different from the registered one.	• Some of marks used for the camera title may not be displayed correctly. Example) When entering "&&", it will be displayed as "&" in the tool tip.	–
Cannot register the license.	• The entered "Registration Key" may not be 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.	–
Refresh of live images is unstable. The devices are disconnected. Image file downloaded from the FTP server is faulty. Images cannot be properly displayed, recorded, or played back.	• The line speed settings may not be 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".)	-

Displayed messages and solutions

When starting the setup 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 setup software unless the operation software is closed.	• The setup software cannot be started when the operation software is open. Click the [OK] button, and then start the setup software after closing the operation 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.	• 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
Failed to log in.	• The entered user name or password is incorrect. Enter the correct user name and password. When failed to log in again, contact the administrator. The administrator should check the user information.

When the [Set] button is clicked

When a message window is displayed by clicking the [Set] button, refer to the following to solve the problem.

Message	Solution
Your user level is not allowed to register setting information in DB.	• When the [Set] button is clicked by a user who is not an administrator, this message will be displayed. Click the [OK] button to close the confirmation window. The edited settings will not be saved.
Cannot register setting information in DB. - Invalid character entry. - No entry. - Invalid value entry.	• This message will be displayed when the [Set] button is clicked with invalid character entry, no entry or invalid value entry. The setup item for which invalid value entered will be displayed in red. When there is any setup item displayed in red, correct the invalid setting.
The entered content is already in used.	• This message will be displayed when the [Set] button is clicked after entering the value already in use. The setup item for which invalid value entered will be displayed in red. When there is any setup item displayed in red, correct the invalid setting.
Editing of the setting will affect other settings. Are you sure you wish to proceed?	• This message will be displayed when the setting that affects other settings are edited or deleted. The edited/deleted setting will be saved and applied when the [OK] button is clicked. The edited/deleted setting will not be saved nor applied when the [Cancel] button is clicked.

Message	Solution
Cannot configure unless device information is downloaded.	• This message will be displayed when the setting of "Address", "HTTP port number" , "Use a proxy server", "Administrator name" or "Password" is edited. Click the [Start...] button to download the recorder information.
The total number of areas of the operation window and the live window shall be 20 or less.	• This message will be displayed when the [Set] button is clicked when 21 or more areas are to be displayed on the operation window and the live window by configuring the settings on the "Basic setup" page of "System". Configure the settings ("Operation window (multi-screen) with the maximum number of areas" and "Live window (multi-screen) with the maximum number of areas") to make the total number of areas of the operation window and the live window 20 or less.
The setting is unavailable since it falls under the following. * No linked camera is set.	• When the [Set] button is clicked while no linked camera is set, this message will be displayed. Set a linked camera.

When the [Delete...] button is clicked

When a message window is displayed by clicking the [Delete...] button, refer to the following to solve the problem.

Message	Solution
Your user level is not allowed to register setting information in DB.	• When the [Delete...] button is clicked by a user who is not an administrator, this message will be displayed. Click the [OK] button to close the confirmation window. The edited settings will not be saved.
Are you sure you wish to delete?	• This message will be displayed when the [Delete...] button displayed on the setup page of "Device mng.", "User mng.", "Camera" or "Window" is clicked. The deleted setting will be saved and applied when the [OK] button is clicked. The deleted setting will not be saved nor applied when the [Cancel] button is clicked.
Editing of the setting will affect other settings. Are you sure you wish to proceed?	• This message will be displayed when the setting that affects other settings are edited. The edited setting will be saved and applied when the [OK] button is clicked. The edited setting will not be saved nor applied when the [Cancel] button is clicked.

When the [Start...] button on the setup page of "Device mng." is clicked

When a message window is displayed by clicking the [Start...] button on the setup page of "Device mng.", refer to the following to solve the problem.

Message	Solution
Information download failed.	• This message will be displayed when failed to download the device information. Try to download the device information again after checking the connection to the device and the settings such as "Address", "HTTP port number", "Use a proxy server", etc.
Information download failed. The connected recorder is not compatible.	• This message will be displayed when trying to download device information from the recorder that is incompatible with this software. Check if the device in use is the model compatible with this software.
Information download failed. Firmware version of the connected recorder is not compatible.	• This message will be displayed when trying to download device information from the recorder whose firmware version is incompatible with this software. Check the firmware version of the recorder in use.
Cannot acquire terminal alarm setting from recorder. Check login user setting and try to acquire again.	• This message is displayed when failed to download the terminal alarm setting from the recorder. Check if the user name and password configured for device registration are the same as the administrator and password of the recorder.
Information download failed. The connected encoder is not compatible.	• This message will be displayed when trying to download device information from the encoder that is incompatible with this software. Check if the encoder in use is the model compatible with this software.
Information download failed. Firmware version of the connected encoder is not compatible.	• This message will be displayed when trying to download device information from the encoder whose firmware version is incompatible with this software. Check the firmware version of the encoder in use.
Information download failed. The connected camera is not compatible.	• This message will be displayed when trying to download device information from the camera that is incompatible with this software. Check if the device in use is the model compatible with this software.
Information download failed. Firmware version of the connected camera is not compatible.	• This message will be displayed when trying to download camera information from the camera whose firmware version is incompatible with this software. Check the firmware version of the camera in use.
No microphone is registered in the camera.	• This message will be displayed when trying to download device information from the microphone in which no linked camera is registered. Set a linked camera on the web browser for the microphone.
No linked camera is registered in this software.	• This message will be displayed when trying to download device information from a microphone without registering the camera using this software. Register the microphone after registering the camera.

Message	Solution
Information download was failed. Connected device is an unknown model.	• This message will be displayed when trying to download device information from a device that is incompatible with this software. Check if the device in use is the model compatible with this software.
Information download was failed. The firmware version of the connected device is not the supported.	• This message will be displayed when trying to download information from a device compatible with this software, but its version is incompatible. Check if the version of the device in use is compatible with this software or not.
Information download failed. (Authentication error)	• This message will be displayed when failed to authenticate the user to connect to the camera or the encoder. Check the user name and password configured for device registration.
New model is found. Download information was canceled. Please register as a new model after deleting the current data.	• This message will be displayed when the previously registered model number has been changed. Register the device again after deleting the previously registered information.
Cannot register setting information in DB. - Invalid character entry. - No entry. - Invalid value entry.	• This message will be displayed when the [Download...] button is clicked with invalid character entry, no entry or invalid value entry. The setup item for which invalid value entered will be displayed in red. When there is any setup item displayed in red, correct the invalid setting.

When the live image source is selected on the "Camera setup" window

Message	Solution
Cannot set the camera for the live image source because information inquiry failed. Check the connection with the camera.	• This message will always be displayed when an image cannot be obtained because the camera is incompatible with this software. It is impossible to select "Camera" for "Live image source". • Refer to the "Compatible devices" section (☞ page 6) for the devices compatible with this software.

When the [OK] button on setup page of "Camera" is clicked

When a message window is displayed by clicking the [OK] button, refer to the following to solve the problem.

Message	Solution
Cannot register setting information in DB. - Invalid character entry. - No entry. - Invalid value entry.	• This message will be displayed when the [OK] button is clicked with invalid character entry, no entry or invalid value entry. The setup item for which invalid value entered will be displayed in red. When there is any setup item displayed in red, correct the invalid setting.

When dragging and dropping the icon onto the map display area

When a message window is displayed by dragging and dropping the icon onto the map display area, refer to the following to solve the problem.

Message	Solution
No more new items can be added as it will exceed the maximum number of registrations allowed.	• This message will be displayed when trying to register a camera/map even when already reached the maximum registration number. Delete an unnecessary map or camera first, and then register newly.

When the [Download] button on the "Recorder log" window is clicked

When a message window is displayed by clicking the [Download] button on the "Recorder log" window, refer to the following to solve the problem.

Message	Solution
Information download failed. Error log Access log Event log Network log	• This message window will be displayed when filed to connect to the recorder to download the recorder log information. Try to download the recorder log information again after checking the connection to the recorder.

When the [Save] button on the "Save As" window is clicked

When a message window is displayed by clicking the [Save] button on "Save As" window, refer to the following to solve the problem.

Message	Solution
The same file is already in use. Are you sure you wish to overwrite?	• This message will be displayed when the same file name exists in the folder specified to save the new file. Click the [OK] button to overwrite the existing file. Click the [Cancel] button to cancel saving the new file.
File saving failed.	• This message will be displayed when failed to save the file. Try to save the file again.

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.	• This message will be displayed when a critical error occurred. Please restart the operating system. When this message is displayed after the restart, please 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.	• This message will be displayed when the required data was not found in the database. Import the backup file of the setup data.

When determined the entered number on the setting pages of "Controller"

When a message window is displayed by determining the entered number (camera number, group number, sequence number), refer to the following to solve the problem.

Message	Solution
Cannot register setting information in DB. - Invalid character entry. - The camera number is already in use. - Invalid value entry.	• This message will be displayed when trying to determine the values with invalid character entry, no entry or invalid value entry. The setup item for which invalid value entered will be displayed in red. When there is any setup item displayed in red, correct the invalid setting.
Cannot register setting information in DB. - Invalid character entry. - The group number is already in use. - Invalid value entry.	• This message will be displayed when trying to determine the values with invalid character entry, no entry or invalid value entry. The setup item for which invalid value entered will be displayed in red. When there is any setup item displayed in red, correct the invalid setting.
Cannot register setting information in DB. - Invalid character entry. - The sequence number is already in use. - Invalid value entry.	• This message will be displayed when trying to determine the values with invalid character entry, no entry or invalid value entry. The setup item for which invalid value entered will be displayed in red. When there is any setup item displayed in red, correct the invalid setting.

For U.S. and Canada:

Panasonic System Communications Company of North America, Unit of Panasonic Corporation of North America
www.panasonic.com/business/
For customer support, call 1.800.528.6747
Two Riverfront Plaza, Newark, NJ 07102-5490

Panasonic Canada Inc.
5770 Ambler Drive, Mississauga, Ontario, L4W 2T3 Canada
(905)624-5010
www.panasonic.ca

For Europe and other countries:

Panasonic Corporation
http://www.panasonic.com

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Panasonic Testing Centre
Panasonic Marketing Europe GmbH
Winsbergring 15, 22525 Hamburg, Germany

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