

New functions and addendum

- This document contains descriptions of how to set the new functions and their restrictions.
It is recommended to read them while referring to the Operating Instructions provided with this product together.
- The model number is abbreviated in some descriptions in this manual.
- Depending on the model used, the screens shown in the explanations may differ to the actual camera screens.

About notations

The following notations are used when describing the functions limited for specified models.

The functions without the notations are supported by all models.

SW559 : WV-SW559, WV-SF549, WV-SF539, WV-SP509

SW558 : WV-SW558, WV-SF548, WV-SF538, WV-SP508

SW458 : WV-SW458, WV-SW458M, WV-SW458MA, WV-SF438

SW598 : WV-SW598, WV-SC588

SW158 : WV-SW158, WV-SF138

SW397 : WV-SW397, WV-SW397A, WV-SC387

SW598A : WV-SW598A, WV-SC588A

SW397B : WV-SW397B, WV-SC387A

Due to software upgrade, the following functions have been added and changed to this product.

•Firmware Ver.1.40 (SW559) (SW558) (SW458)

No.	Functions	Item (Page)	Page
1	Changes the name of "List" on the "Live" page	Log (Live)	5
2	Playback of H.264 data recorded on the SD memory card	Log (Live) JPEG/H.264 (Camera)	5
3	Changes about "Time zone" and "Summer time"	Basic (Basic) NTP (Server)	11
4	Addition of "Auto" in Language selection	Basic (Basic)	12
5	Addition of "Monitor out"(NTSC/PAL switching) setting	Basic (Basic)	12
6	Addition of "Internet" function	Internet (Basic)	13
7	Addition of "Area" selection to the "DDNS" setting	Internet (Basic) DDNS (Network)	15
8	Perform pre alarm recording using the JPEG recording function	SD memory card (Basic)	16
9	Addition of "Permission level of viewing logs" setting	Log (Basic)	17
10	Addition of "Initial display stream on the browser" setting	JPEG/H.264 (Camera)	17
11	Addition of "Advanced VBR" to the "Transmission priority" of "H.264"	JPEG/H.264 (Camera)	18
12	Addition of "Advanced VBR" to the "H.264 recording"	JPEG/H.264 (Camera)	19
13	Addition of "6144kbps **" to "Max bit rate (per client) **"	JPEG/H.264 (Camera)	20
14	Addition of "PAL monitor switch input" to the "Terminal" settings of "Alarm"	Alarm (Alarm)	21
15	Addition of "Maximum file size" and "Pre alarm (recording) duration" to the "H.264 recording"	SD memory card (Basic) Alarm (Alarm)	23
16	Addition of "HTTP alarm notification"	Notification (Alarm)	24
17	Changes to an optional function of "Face detection outline display" and "Advanced func."	Live XML notification (Advanced function) Face detection (Advanced function)	26
18	Supports SSL Mail Server	E-mail (Server)	27
19	Addition of "Forcible black & white mode", "Forcible Super Dynamic" and "Forcible WDR" to the Schedule	Schedule (Schedule)	27
20	Addition of "Time past from the date of manufacture" to the Upgrade	Upgrade (Maintenance)	28
21	Changes about "Fog compensation"	Image adjust(Image/Audio)	29

•Firmware Ver.1.44 (SW559) (SW558) (SW458) /Ver.1.06 (SW598) (SW598A) /Ver.1.07 (SW158) /Ver.1.70 (SW397) (SW397B)

No.	Functions	Item (Page)	Page
22	Addition of "Portuguese" in [select language] pull-down menu on the Live page	Live	30
23	Addition of "Portuguese" in Language selection	Basic (Basic)	30
24	Change initial settings for the "Terminal" settings of "Alarm"	Alarm (Alarm)	30
25	Change the language of E-mail notification for [Diag.]	Notification (Alarm)	30

·Firmware Ver.1.50 (SW559) (SW558) (SW458) (SW598) (SW158) (SW598A) / Ver.1.70 (SW397) (SW397B)

No.	Functions	Item (Page)	Page
26	Addition of "Permission level of viewing logs" setting	Log (Basic)	31
27	Addition of "Image capture mode" settings	JPEG/H.264(Image/Audio)	31
28	Addition of "High light compensation(HLC)"	Image quality(Image/Audio) Image/Position(Image/Audio)	38
29	Changes the name of "Direction setting" function	Image/Position(Image/Audio)	39
30	Addition of ""Panning 0° direction setting"	Image/Position(Image/Audio)	40
31	Up/down angle adjustment function for Double Panorama	Image/Position(Image/Audio)	41
32	Addition of "Audio output duration" setting	Audio(Image/Audio)	42
33	Addition of "Forcible black & white mode", "Forcible Super Dynamic" to "Schedule"	Schedule (Schedule)	43
34	Addition of "Alarm deactivation time" setting	Alarm (Alarm)	43
35	Addition of pre alarm to FTP alarm transmission	Alarm (Alarm)	44
36	Addition of "HTTP alarm notification"	Notification (Alarm)	45
37	Supports SSL Mail Server	E-mail (Server)	46
38	Addition of a support site link to the Upgrade screen	Upgrade(Maintenance)	47
39	Changes to image attachments for E-mail information	Notification (Alarm)	47

·Firmware Ver.1.60 (SW559) (SW558) (SW458) (SW598) (SW158) (SW598A) / Ver.1.70 (SW397) (SW397B)

No.	Functions	Item (Page)	Page
40	Changes Time zone settings	Basic (Basic) NTP (Server)	48
41	Addition of "Upper center" and "Lower center" to the "Position" setting of "OSD"	Basic (Basic)	48
42	Warning outputs, usage information, and error information display have been added for SD memory cards.	Alarm (Alarm) Status (Maintenance)	49
43	Changes to connection information and warning display of the power supply device	Precautions (Installation guide) System log (Maintenance)	52

·Firmware Ver.1.80 (SW598A) (SW397B)

No.	Functions	Item (Page)	Page
44	Addition of "VBR" to the "Transmission priority" of "H.264"	JPEG/H.264(Image/Audio)	53
45	Addition of "Smart Coding mode" feature	JPEG/H.264(Image/Audio)	55

·Firmware Ver.1.90 (SW559) (SW558) (SW458) (SW598) (SW158) (SW397) (SW598A) (SW397B)

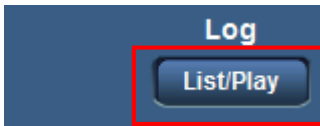
No.	Functions	Item (Page)	Page
46	Addition of "15s" and "25s" to the "Dwell time" of "Preset position"	Preset position (Image/Audio)	57
47	Addition of "0s", "1s", "2s", "3s", "4s", "15s" and "25s" to the "Dwell time" of "Auto pan"	Auto pan (Image/Audio)	58
48	Addition of "Alarm area No." setting to the "Preset per sender"	Preset per sender(Alarm)	59
49	Addition of "VBR" to the "Transmission priority" of "H.264" (Additon of models (SW598) (SW397) (SW158))	JPEG/H.264(Image/Audio)	61

·Firmware Ver.2.46

No.	Functions	Item (Page)	Page
50	Addition of "Reboot" to the Schedule 5	Schedule (Schedule)	62

1. Changes the name of “List” on the “Live” page

(Operating Instructions Monitor images on a PC - About the “Live” page, Display the log list) (SW559) (SW458)



On the "Live" page, the [List] button will be changed to the [List/Play] button.

2. Playback of H.264 data recorded on the SD memory card

(Operating Instructions - Display the log list)

(SW458) * The other SD memory card models already support this function.

Recording format of the SD memory card: JPEG

- **Alarm log:** Logs of the alarm occurrences such as time and date of the alarm occurrences and the alarm type will be displayed.
- **Manual/Schedule log:** Logs filed when images have been recorded manually or during the period of the schedule on the SD memory card will be displayed.
- **FTP trans. error log:** Logs filed when the FTP periodic image transmission function has failed will be displayed. Each log list can be displayed only when “On” is selected for “Save logs” on the [Log] tab of the “Basic” page respectively.

Note

- Refer to the provided operating instructions about the descriptions of the log list when “JPEG” is selected for “Recording format” of the SD memory card.

Recording format of the SD memory card: H.264(1), H.264(2)

- **Alarm log:** Logs of the alarm occurrences such as time and date of the alarm occurrences, the image recording period and the alarm type will be displayed.
- **Manual/Schedule log:** Logs filed when images have been recorded manually or during the period of the schedule on the SD memory card, and the image recording period will be displayed.

IMPORTANT

- When using SD memory cards to play recorded H.264 data using the play features (fast forward, rewind, etc.), we recommend using SDHC memory cards for best performance.
If an SD memory card (not an SDHC memory card) is used, depending on the subject and settings, images may not be displayed smoothly when they are played.
- Changes to the time & date settings by browser operations, NTP, etc., may be limited during recording.
 - When the time setting is moved forward during recording, the time is changed.
 - When the time setting is moved back by less than 5 seconds during recording, the time is not changed.
 - When the time setting is moved back by more than 5 seconds during recording, the time is changed.
However, the recording is stopped and then started again.
- If the following settings are changed, displaying of the live image and recording are temporarily stopped.
 - SD memory card settings
 - Recording format settings
 - Save trigger settings
 - H.264 recording settings
 - Image capture mode settings
 - H.264(1) and H.264(2) settings
- When “VGA Quad streams [4:3]” is selected for “Image capture mode”, SD memory cards cannot be used.

① Time

Displays the time period of the data recorded on the SD memory card.

② Log display

Select a log type to display on the log list.

- **All:** All logs will be displayed.
- **Select:** Only the logs of the selected log type will be displayed.
 - **Alarm log:** The log when an alarm is detected will be displayed.
 - **Manual/Schedule log:** Manual and Schedule logs will be displayed.

Default: All

③ Recording time

Configure the time period of logs displayed on the log list.

- **From:** Configure the starting period of logs displayed on the log list.
 - **First recording:** Displays from the first log recorded on the SD memory card.
 - **Today:** Displays the logs recorded today.
 - **Yesterday:** Displays the logs recorded yesterday.
 - **Last 7 days:** Displays the logs recorded from 6 days ago to the present day.
 - **Last 30 days:** Displays the logs recorded from 29 days ago to the present day.
 - **Date/time:** Displays the logs recorded from the entered date and time on “Date/time” box.
- **To:** Configure the ending period of logs displayed on the log list when “First recording” or “Date/time” is selected for [From].
 - **Last recording:** Displays to the last log recorded on the SD memory card.
 - **Date/time:** Displays the logs recorded until the entered date and time on “Date/time” box.

④ [Search] button

Searches for logs according to the conditions specified in “Log display” and “Recording time”.

The search result will be displayed on the log list.

⑤ Log list

Displays the log search results.

You can play back recorded data by clicking on the time or duration of the recorded data displayed under [Time] and [Duration].

- **[Top] button:** Click this button to display the log listed at the top.
- **[Prev. page] button:** Click this button to display the previous page of the log list.
- **[Next page] button:** Click this button to display the next page of the log list.
- **[Last] button:** Click this button to display the log listed at the bottom.
- **[Time&date]:** Time and date when each log has been recorded will be displayed.

Note

- When “Off” is selected for “Time display format”, the log occurrence times are displayed in 24 hour time format.
- The recording timing of logs is as follows.
 - **Alarm log:** Alarm occurrence time and date will be filed as a log.
 - **Manual/Schedule log:** Time and date when recording of images onto the SD memory card started manually or during the period of the schedule will be filed as a log. When images are recorded sequentially, logs will be filed every one hour. However, depending on the photographic subject and the setting used, logs may be filed in periods of over an hour.
- Depending on the subject and settings, the log time and the actual start time of recordings may not match.

- **[Duration]**: Displays the period of time that the data has been recorded on the SD memory card.
- **[Event]**: The event type will be displayed.
 - **ALM**: Log by “Alarm”
 - **MN/SC**: Log by “Manual/Schedule”
- **[SD memory card]**: Available capacity and the original capacity of the SD memory card will be displayed.

The displayed descriptions are the same descriptions displayed as “Remaining capacity” on the [SD memory card] tab.

- **[Delete] button**: Click this button to delete the currently displayed log list. When using the SD memory card, images associated with the log list will also be deleted.

IMPORTANT

- If there are too many recorded data files, it may take time to delete all of them. (When the total size is 1 GB, it may require about 1 hour.) Formatting the SD memory card can shorten the time to delete all the data.
- In the process of the deletion, “Alarm” and “Manual/Schedule” can not be operated.
- Do not turn off the power of the camera until the deletion is complete. When the power of the camera is turned off in the process of the deletion, some images may remain on the SD memory card. In this case, click the [Delete] button on the same log list window used to delete the logs.
- **[Download] button**: Click this button to download all logs of the selected log list onto the PC.
- **[Close] button**: Click this button to close the log list window.

(Operating Instructions - Playback of images on the SD memory card)

SW458 The other SD memory card models already support this function.

When clicking a time, a duration listed on the log list window, the “Live” page will turn to the “Playback” page. When images associated with the clicked log are on the SD memory card, the first image of them will be displayed.

Note

- When playing images saved on the SD memory card, it is necessary to select “Unlimited” for “Bandwidth control(bit rate)” of [Network] tab on the “Network” page.

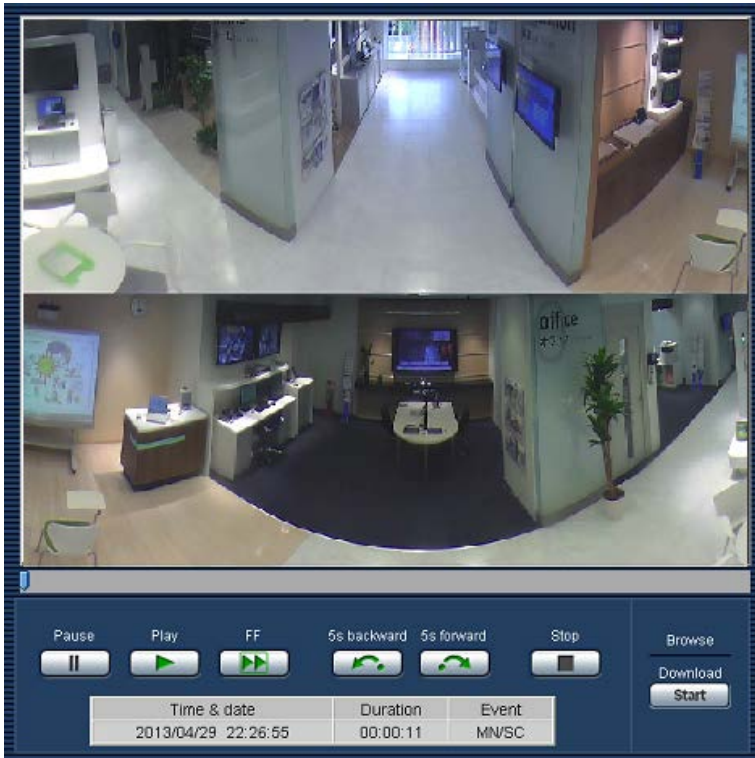
IMPORTANT

- Refresh interval of images may become slow during playback or download.
- When many images are saved on the SD memory card, it may take time to display images on the “Playback” page.
- Even when the size of the images saved on the SD memory card is “QVGA”, “1280x960” or “2048x1536”, the images will be displayed in VGA size on the “Playback” page. When “16:9” is selected for the aspect ratio, Images will be displayed in an image capture size of “640x360”, even “320x180”, “1280x720”, or “1920x1080” is selected. Therefore, images may look coarse on the “Playback” page.
- When playing images by selecting an FTP error log on the log list, images may not be played in order of images recorded on the SD memory card if they have been recorded on the SD memory card with selected value for the “Transmission interval” setting on the [FTP img. trans.] tab is “1min” or less.
- When “VGA Quad streams [4:3]” is selected for “Image capture mode”, SD memory cards cannot be used.

Recording format of the SD memory card: JPEG

Refer to the provided operating instructions about the descriptions of when “JPEG” is selected for “Recording format” of the SD memory card.

Recording format of the SD memory card: 264(1),H.264(2)



- **[PAUSE] button:** Playback will be paused when this button is clicked during playback. Playback will resume when this button is clicked during pausing.
- **[PLAY] button:** When this button is clicked, recorded data will be played.
- **[FF] button:** Each time this button is clicked, the playback speed will change. When the [PLAY] button is clicked during fast playback, playback speed will return to the normal playback speed.

Note

- The maximum speed of the fast playback varies depending on the setting of “Max bit rate” - “H.264 recording” of the SD memory card.
- Depending on the subject and settings, images played in fast forward may not be displayed smoothly.
- **[5s backward] button:** Each time this button is clicked, the recorded data goes back by 5 seconds and starts playing.
- **[5s forward] button:** Each time this button is clicked, the recorded data goes forward by 5 seconds and starts playing.
- **[STOP] button:** Playback will stop and the “Playback” window will turn to the “Live” page.
- **[Time]:** Time and date when each log has been recorded will be displayed.
- **[Duration]:** Displays the period of time that the data has been recorded on the SD memory card.
- **[Event]:** The event type will be displayed.
 - **ALM:** Log by “Alarm”
 - **MN/SC:** Log by “Manual/Schedule”

Browse

- **[Start] button:** The selected image will be downloaded onto the PC.

Before downloading images, designate the destination directory in advance. (→ Operating Instructions - Configure the settings relating to the logs [Log])

The message window will be displayed to ask if it is OK to start download when the [Start] button is clicked. Click the [OK] button.

Note

- When the [Cancel] button is clicked in the process of the download, the download will be canceled. In this case, video data already downloaded before clicking the [Cancel] button will be saved on the PC.
- Video data is saved in files of approx. 2 MB or 20 MB depending on the settings. When the file size of video data is more than the configured value, multiple files will be downloaded.
- It is possible to play back video data saved on the PC using such applications as QuickTime Player or Windows Media Player*1. However, we are not liable for performance relating to these applications.
- Depending on the status of the SD memory card, QuickTime Player, or Windows Media Player, video data may not be able to be played back.
- When downloading data, the operation buttons on the “Playback” window cannot be operated.

*1 The supported operating system is Windows 8 and Windows 7 only.

(Operating Instructions Configure the basic settings of the camera [Basic] - Configure the settings relating to the SD memory card [SD memory card])

SW458 * The other SD memory card models already support this function.

When "H.264(1)" or "H.264(2)" is selected for the "Recording format", the camera can transmit H.264 images and The displaying of H.264 images on the "Live" page become available.

(Operating Instructions Configure the settings relating to images and audio [Image/Audio] - Configure the settings relating to H.264 images [JPEG/H.264])

SW458 * The other SD memory card models already support this function.

[H.264(1)], [H.264(2)]

When “H.264(1)” is selected for “Recording format” on the [SD memory card] tab of the “Basic” page, the settings for “H.264(1)” on the [JPEG/H.264] tab of the “Image/Audio” page will be changed to the settings for “H.264(1) & recording”.

When “H.264(2)” is selected for “Recording format” on the [SD memory card] tab of the “Basic” page, the settings for “H.264(2)” on the [JPEG/H.264] tab of the “Image/Audio” page will be changed to the settings for “H.264(2) & recording”.

Note

- When “H.264(1)” or “H.264(2)” is selected for “Recording format”, When “3072kbps”, “4096kbps”, “6144kbps”, “8192kbps”, “10240kbps”, “12288kbps” or “14336kbps” is selected for “Max bit rate”, “2048kbps” is set.
- When “H.264(1)” or “H.264(2)” is selected for “Recording format” on the [SD memory card] tab of “Basic” page, the “Transmission priority” can not changed to “Best effort”.

* Refer to the Operating Instructions provided with this product about the each settings.

3. Changes about “Time zone” and “Summer time”

(Operating Instructions Configure the basic settings of the camera [Basic] - Configure the basic settings [Basic], Configure the settings of the servers [Server] - Configure the settings relating to the NTP server [NTP])

Basic		Internet	SD memory card	Log							
Camera title		ww-sw559									
Time & date	Date/time	Jan	/	01	/	2012	00	:	00	:	00
	Time display format	24h									
	Date/time display format	Mmm/DD/YYYY									
	NTP	NTP >>									
	Time zone	(GMT+09:00) Osaka, Sapporo, Tokyo									
	Summer time (daylight saving)	Out									
Start time & date	Month	Day	Time								
End time & date	Month	Day	Time								
Camera title on screen	<input type="radio"/> On <input checked="" type="radio"/> Off										
Camera title on screen(0-9,A-Z)											
OSD	Position	Upper left									
Brightness status display	<input checked="" type="radio"/> On <input type="radio"/> Off										
Upside-down	<input type="radio"/> On <input checked="" type="radio"/> Off										
Indicator	<input checked="" type="radio"/> On <input type="radio"/> Off										
Alarm status update mode	<input type="radio"/> Polling(30s) <input checked="" type="radio"/> Real time										
Alarm status reception port	31004 (1-65535)										
Automatic installation of viewer software	<input checked="" type="radio"/> On <input type="radio"/> Off										
<input type="button" value="Set"/>											

■ Time zone moves to the Basic screen from the NTP screen and change the default setting

[Time zone]

Select a time zone corresponding to the location where the camera is in use.

Default: (GMT+09:00) Osaka, Sapporo, Tokyo (P model)

(GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London (E model)

■ Change the default setting of “Start time & date” and “End time & date” of “Summer time (daylight saving)”

[Start time & date] [End time & date]

When “Auto” is selected for “Summer time (daylight saving)”, select the time & date for the start time and the end time (month, week, day of the week, time).

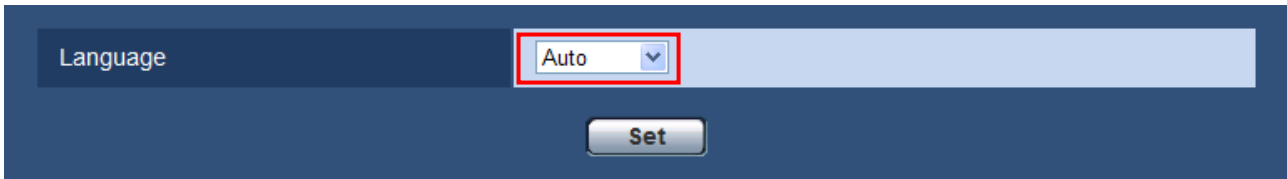
Default:

- [Start time & date] None (blank) (P model), 03 Last Sun 1 AM (E model)

- [End time & date] None (blank) (P model), 10 Last Sun 1 AM (E model)

4. Addition of “Auto” in Language selection

(Operating Instructions Configure the basic settings of the camera [Basic] - Configure the basic settings [Basic])



[Language]

Select the language to initially display when the camera is accessed from the following.

Auto/English/Japanese/Italian/French/German/Spanish/Chinese/Russian

Auto: The language used by the browser is automatically selected. If the language used by the browser is not supported by the camera, English is selected.

Default: Auto (P model), English (E model)

The language displayed on the “Live” page can also be changed except “Auto”.

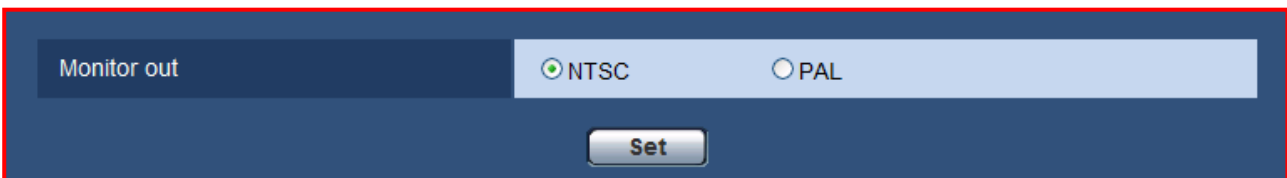
Note

When "Auto" is selected for "Language", the screen on cellular phones (http://IP address/mobile) is displayed in English. If you want the screen to be displayed in Japanese or Chinese, select "Japanese" or "Chinese" for "Language".

5. Addition of “Monitor out”(NTSC/PAL switching) setting

(Operating Instructions Configure the basic settings of the camera [Basic] - Configure the basic settings [Basic])

SW559 **SW558**



[Monitor out]

Set the monitor output method.

NTSC/PAL

Default: NTSC (P Model), PAL (E model)

Note

The monitor out connector for adjustment is provided only for checking the adjustment of the angular field of view on the video monitor when installing the camera or when servicing. It is not provided for recording/monitoring use.

6. Addition of “Internet” function

(Operating Instructions Configure the basic settings of the camera [Basic])

Functions have been added so that Internet settings can be easily performed.

Click the [Internet] tab of the “Basic” page. The settings relating to UPnP (Auto port forwarding), DDNS (Viewnetcam.com), and network settings for the Internet can be configured on this page.

Basic		Internet	SD memory card	Log
UPnP(Auto port forwarding)		<input type="radio"/> On <input checked="" type="radio"/> Off		
DDNS	Area	--Select the service area--		
	Service			
		Set		
Recommended network setting for internet		A setup suitable for internet environment is carried out.		
		Set		

[UPnP (Auto port forwarding)]

Select “On” or “Off” to determine whether or not to use the port forwarding function of the router.

To use the auto port forwarding function, the router in use must support UPnP and the UPnP must be enabled.

Default: Off

Note

- Due to auto port forwarding, the port number may sometimes be changed. When the number is changed, it is necessary to change the port numbers registered in the PC and recorders, etc.
- The UPnP function is available when the unit is connected to the IPv4 network. IPv6 is not supported.
- To check if auto port forwarding is properly configured, click the [Status] tab on the “Maintenance” page, and check that the “Enable” is displayed for “Status” of “UPnP” When “Enable” is not displayed, refer to “Cannot access the camera via the Internet.” In Troubleshooting.
- When the “UPnP (Auto port forwarding)” setting is changed, the “Auto port forwarding” setting under “UPnP” on the [Network] tab of the “Network” page also changes to the same setting.

[Area]

Select the region where the camera is installed. If the camera is used outside of Japan, select “Global”. If the camera is used in Japan, select “Japan”.

Japan/Global

Default: Not selected

[Service]

Select the DDNS service to determine whether or not to use DDNS.

DDNS service that can be set by the settings of the [Area] changes as follows.

In case of selecting “Japan” : Off, MIEMASUNET-PRO

In case of selecting “Global” : Off, Viewnetcam.com

Default: Off

By selecting “MIEMASUNET-PRO” or “Viewnetcam.com” and clicking the [Set] button, the registration window will be displayed in a newly opened window.

Follow the on-screen instructions to register. Refer to the website (<http://www.viewnetcam.com/> , <http://panasonic.biz/miemasu/pro/>) for further information.

Note

- When the “DDNS” setting is changed, the “DDNS” setting on the [DDNS] tab of the “Network” page also changes to the same setting.

[Recommended network setting for internet]

The recommended settings for connecting to the Internet are performed here.

By clicking the [Set] button, a dialog displaying how the following settings will change is displayed.

Click the [OK] button after checking the settings to change the settings to the displayed values.

Following contents are set.

JPEG	Image capture size ^{*5}	VGA / 640x360 ^{*1} , 2048x1536 ^{*2}
H.264(1)	Image capture size ^{*5}	VGA / 640x360 ^{*1} , 1280x960 ^{*2}
	Transmission priority	Best effort
	Max bit rate (per client) * (Max./Min.)	1024kbps / 128kbps, 1024kbps / 256kbps ^{*2}
	Internet mode (over HTTP)	On
H.264(2) ^{*3}	Image capture size ^{*5}	QVGA / 320x180 ^{*4}
	Transmission priority	Best effort
	Max bit rate (per client) * (Max./Min.)	1024kbps / 128kbps
	Internet mode (over HTTP)	On
Network	Max RTP packet size	Limited(1280byte)
	HTTP max segment size(MSS)	Limited(1280byte)

*1 When "1.3 mega pixel [4:3]" is selected for "Image capture mode", "VGA" is used. When "1.3 mega pixel [16:9]" or "2 mega pixel [16:9]" is selected for "Image capture mode", "640x360" is used. **SW559** **SW558**

*2 When "3 mega pixel [4:3]" is selected for "Image capture mode". **SW559** **SW558**
When "3M Fisheye [4:3]" is selected for "Image capture mode". **SW458**

*3 Transmission is unavailable when "3 mega pixel [4:3]" is selected for "Image capture mode". **SW559** **SW558**

*4 When "1.3 mega pixel [4:3]" is selected for "Image capture mode", "QVGA" is used. When "1.3 mega pixel [16:9]" or "2 mega pixel [16:9]" is selected for "Image capture mode", "320x180" is used. **SW559** **SW558**

*5 Following contents are set. **SW458**

Image capture mode	2M Panorama [16:9], 1M Panorama [16:9], 2M Double Panorama [16:9], 1M Double Panorama [16:9]	1.3M Fisheye [4:3], 1.3M Quad PTZ [4:3], 1.3M Single PTZ [4:3], Fisheye + Quad PTZ	Double Panorama + Quad PTZ, Double Panorama + Single PTZ, Panorama + Quad PTZ, Panorama + Single PTZ, 2M Double Panorama + Fisheye, 1M Double Panorama + Fisheye, 2M Panorama + Fisheye, 1M Panorama + Fisheye	3M Fisheye [4:3]	VGA Quad streams [4:3]
JPEG	640x360	VGA	640x360	2048x1536	Unavailable
H.264 (1)	640x360	VGA	640x360	1280 × 960	VGA
H.264 (2)	320x180	QVGA	QVGA	-	-

- When "H.264(1)" is selected for "Recording format" on the [SD memory card] tab of the "Basic", page, "Transmission priority" of "H.264(1)" is not changed. When "H.264(2)" is selected, "Transmission priority" of "H.264(2)" is not changed. (SW559)
- "Image capture size" is not changed, when "3 mega pixel [4:3]" (SW559) (SW558) or "3M Fisheye [4:3]" (SW458) is selected for "Image capture mode".
"Max bit rate (per client) *" is changed to Max. "1024kbps *" and Min. "256kbps *".

7. Addition of "Area" selection to the "DDNS" setting

(Operating Instructions Configuring the network settings [Network] - Configure the settings relating to DDNS [DDNS])

[Area]

Select the region where the camera is installed. If the camera is used outside of Japan, select "Global". If the camera is used in Japan, select "Japan".

Japan/Global

Default: None

[Service]

Select the DDNS service to determine whether or not to use DDNS.

DDNS service that can be set by the settings of the [Area] changes as follows.

In case of selecting "Japan" : Off, MIEMASUNET-PRO, Miemasu.net, Dynamic DNS Update, Dynamic DNS Update(DHCP)

In case of selecting "Global" : Off, Viewnetcam.com, Dynamic DNS Update, Dynamic DNS Update(DHCP)

Off: Does not use the DDNS function.

Viewnetcam.com: Uses the "Viewnetcam.com" service.

MIEMASUNET-PRO: Uses the "MIEMASUNET-PRO" service.

Miemasu.net: Uses the "Miemasu.net" service.

Dynamic DNS Update: Uses Dynamic DNS Update (RFC2136 compliant) without the DHCP cooperation.

Dynamic DNS Update(DHCP): Uses Dynamic DNS Update (RFC2136 compliant) with the DHCP cooperation.

Default: Off

By selecting "MIEMASUNET-PRO", "Miemasu.net" or "Viewnetcam.com" and clicking the [Set] button, the registration window will be displayed in a newly opened window.

Follow the on-screen instructions to register. Refer to the website (<http://www.viewnetcam.com/> , <http://www.miemasu.net/> , <http://panasonic.biz/miemasu/pro/>) for further information.

Note

- When using Dynamic DNS Update (RFC2136 compliant), refer to the network administrator for whether or not to cooperate with the DHCP.

8. Perform pre alarm recording using the JPEG recording function (Operating Instructions - Configure the basic settings of the camera [Basic] - Configure the settings relating to the SD memory card [SD memory card])

SW458 * The other SD memory card models already support this function.

JPEG recording		
File name	img_	
Image saving interval/Number of images to be saved(Pre alarm)	Image saving interval 1fps	Number of images to be saved Off
Image saving interval/Number of images to be saved(Post alarm)	Image saving interval 1fps	Number of images to be saved 100 pics
Image capture size	Double Panorama/640x360	

[Image saving interval/Number of images to be saved (Pre alarm)]

[Image saving interval]

When “Alarm input” is selected for “Save trigger”, select an interval (frame rate) of saving pre alarm images on the SD memory card from the following.

0.1fps/ 0.2fps/ 0.33fps/ 0.5fps/ 1fps

Default: 1fps

Note

- When “1920x1080” is selected for the image capture size of the JPEG images to be saved, “1fps” cannot be selected.

[Number of images to be saved]

Select a number of pre alarm images to be saved on the SD memory card from the following.

Off/ 1pic/ 2pics/ 3pics/ 4pics/ 5pics

Default: Off

Note

- When “1920x1080” is selected for the image capture size of the JPEG images to be saved, “4pics” and “5pics” cannot be selected.
- When “3M Fisheye [4:3]” is selected for “Image capture mode”, “Pre alarm” cannot be used.
- When “H.264(1)” or “H.264(2)” is selected for “Recording format”, Pre alarm and Post alarm can be set on “H.264 recording” of [Alarm] tab.
- “Number of images to be saved” can be configured only when “Alarm input” is selected for “Save trigger”.

9. Addition of “Permission level of viewing logs” setting

(Operating Instructions Configure the basic settings of the camera [Basic] -Configure the settings relating to the logs [Log]) **SW559** **SW458**

Category	Save logs	Name of the destination directory for downloaded images
Alarm	<input checked="" type="radio"/> On <input type="radio"/> Off	C:\nwcam
Manual/Schedule	<input checked="" type="radio"/> On <input type="radio"/> Off	C:\nwcam
FTP error	<input checked="" type="radio"/> On <input type="radio"/> Off	C:\nwcam
Permission level of viewing logs		<input checked="" type="radio"/> 1. Level 1 only <input type="radio"/> 2. Level 2 or higher <input type="radio"/> 3. All users

[Permission level of viewing logs]

User level settings for viewing and operating "Log" on the "Live" page can be configured.

- **1. Level 1 only:** only Level 1 users can view and operate the "Log".
- **2. Level 2 or higher:** only Level 1 and Level 2 users can view and operate the "Log".
- **3. All users:** all users can view and operate the "Log".

However, only Level 1 and Level 2 users can delete logs, and only Level 1 users can view SD memory card folders.

Default: 1. Level 1 only

10. Addition of “Initial display stream on the browser” setting

(Operating Instructions Configure the settings relating to images and audio [Image/Audio])

Initial display stream on the browser H.264 JPEG

Set

[Initial display stream on the browser]

“Initial display stream on the browser” of [JPEG/H.264] tab on the “Image/Audio” page has been added.

Configure what type of images is initially displayed on the “Live” page.

H.264: Initially displays H.264 images on the “Live” page.

MPEG-4 : Initially displays MPEG-4 images on the “Live” page.

JPEG: Initially displays JPEG images on the “Live” page.

Default: H.264

Note

- Even when “H.264” is selected, if “Off” is selected for “H.264 transmission”, only JPEG images are displayed.

- This setting can not be changed when “Image capture mode” is set to “VGA Quad streams [4:3]”. **SW458**

11. Addition of “Advanced VBR” to the “Transmission priority” of “H.264” (Operating Instructions Configure the settings relating to images and audio [Image/Audio] - Configure the settings relating to H.264 images [JPEG/H.264])

SW458 * The other models already support this function.

H.264(1)	
H.264 transmission	<input checked="" type="radio"/> On <input type="radio"/> Off
Internet mode (over HTTP)	<input type="radio"/> On <input checked="" type="radio"/> Off
Image capture size	Double Panorama/1920x1080
Transmission priority	Frame rate
Frame rate*	30fps *
Burst tolerance level	Low
Control time period	24h
Max bit rate (per client) *	Max 4096kbps * - Min 512kbps *
Image quality	Normal
Refresh interval	1s
Transmission type	Unicast port (AUTO)
Unicast port1(Image)	32004 (1024-50000)
Unicast port2(Audio)	33004 (1024-50000)
Multicast address	239.192.0.20
Multicast port	37004 (1024-50000)
Multicast TTL/HOPLimit	16 (1-254)

Set

[Transmission priority]

Select a transmission priority for H.264 images from the following.

- **Constant bit rate:** H.264 images will be transmitted with the bit rate selected for “Max bit rate (per client) *”.
- **Frame rate:** H.264 images will be transmitted with the frame rate selected for “Frame rate*”.
- **Best effort:** In accordance with the network bandwidth, H.264 images will be transmitted with the bit rate varying between the maximum and minimum bit rates that are set for “Max bit rate (per client)*”.
- **Advanced VBR:** H.264 images will be transmitted with the frame rate selected for “Frame rate*”. Images are transmitted so that the average transmission rate during the period specified for “Control time period” becomes the bit rate selected for “Max bit rate (per client)*”.

Default: Frame rate

Note

- When “Frame rate” or “Advanced VBR” is selected for “Transmission priority”, number of users who can access the camera may be limited more (may become less than 10).

[Burst tolerance level]

Select how much the bit rate can exceed “Max bit rate (per client)*” by from the following.

High/Middle/Low

Default: Low

Note

- This setting is only available when “Advanced VBR” is selected for “Transmission priority”.
- Depending on the H.264 bit rate used, the burst bit rate may only change by a maximum of about x4 for “High”, x2.5 for “Middle”, and x1.5 for “Low”

[Control time period]

Select the time period that the bit rate will be controlled for from the following. Images are transmitted so that the average transmission rate during the selected period becomes the bit rate selected for “Max bit rate (per client)*”.

1h/6h/24h/1week

Default: 24h

Note

- This setting is only available when “Advanced VBR” is selected for “Transmission priority”.

12. Addition of “Advanced VBR” to the “H.264 recording”

(Operating Instructions Configure the basic settings of the camera [Basic] - Configure the settings relating to the SD memory card [SD memory card])

SW458 * The other SD memory card models already support this function.

H.264 recording	
Image capture size	Double Panorama/1920x1080
Recording priority	Advanced VBR
Frame rate*	30fps *
Control time period	24h
Max bit rate	2048kbps *
Image quality	Normal
Refresh interval	1s
Maximum file size	<input type="radio"/> 2 MB <input checked="" type="radio"/> 20 MB

Set

[Recording priority]

From the following, select a recording priority for H.264 images to be recorded.

- **Constant bit rate:** H.264 images will be recorded with the bit rate selected for “Max bit rate”.
- **Frame rate:** H.264 images will be recorded with the frame rate selected for “Frame rate*”.
- **Advanced VBR:** H.264 images will be recorded with the frame rate selected for “Frame rate*”. Images are recorded so that the average transmission rate during the period specified for “Control time period” becomes the bit rate selected for “Max bit rate”.

Default: Frame rate

[Control time period]

Select the time period that the bit rate of images to be recorded will be controlled for from the following. Images are recorded so that the average bit rate during the selected period becomes the bit rate selected for “Max bit rate”.

1h/6h/24h/1week

Default: 24h

Note

- This setting is only available when “Advanced VBR” is selected for “Recording priority”.

13. Addition of “6144kbps **” to “Max bit rate (per client) **”

(Operating Instructions Configure the settings relating to images and audio [Image/Audio] - Configure the settings relating to H.264 images [JPEG/H.264])

SW458 * The other models already support this function.

The image shows a configuration interface for H.264 video transmission, divided into two sections: H.264(1) and H.264(2). Each section contains various settings for video capture and transmission. In both sections, the 'Max bit rate (per client)' setting is highlighted with a red box. The 'Control time period' is set to '24h' in both. The 'Max bit rate (per client)' is set to 'Max 4096kbps' for H.264(1) and 'Max 1536kbps' for H.264(2). The 'Min' value is set to '512kbps' for H.264(1) and '128kbps' for H.264(2). Other settings include 'H.264 transmission' (On), 'Internet mode (over HTTP)' (Off), 'Image capture size' (Double Panorama/1920x1000 for H.264(1) and Double Panorama/640x360 for H.264(2)), 'Transmission priority' (Frame rate), 'Frame rate*' (30fps), 'Burst tolerance level' (Low), 'Image quality' (Normal), 'Refresh interval' (1s), 'Transmission type' (Unicast port (AUTO)), 'Unicast port1 (Image)' (52004), 'Unicast port2 (Audio)' (53004), 'Multicast address' (239.192.0.20), 'Multicast port' (57004), and 'Multicast TTL/HOPLimit' (10).

Setting	H.264(1)	H.264(2)
H.264 transmission	On	On
Internet mode (over HTTP)	Off	Off
Image capture size	Double Panorama/1920x1000	Double Panorama/640x360
Transmission priority	Frame rate	Frame rate
Frame rate*	30fps	30fps
Burst tolerance level	Low	Low
Control time period	24h	24h
Max bit rate (per client) *	Max 4096kbps - Min 512kbps	Max 1536kbps - Min 128kbps
Image quality	Normal	Normal
Refresh interval	1s	1s
Transmission type	Unicast port (AUTO)	Unicast port (AUTO)
Unicast port1 (Image)	52004 (1024-50000)	52014 (1024-50000)
Unicast port2 (Audio)	53004 (1024-50000)	53014 (1024-50000)
Multicast address	239.192.0.20	239.192.0.21
Multicast port	57004 (1024-50000)	57004 (1024-50000)
Multicast TTL/HOPLimit	10 (1-254)	10 (1-254)

[Max bit rate (per client)*]

Select an H.264 bit rate per a client from the following. When “Best effort” is selected for “Transmission priority”, set the maximum and minimum bit rates.

64kbps/ 128kbps*/ 256kbps*/ 384kbps*/ 512kbps*/ 768kbps*/ 1024kbps*/ 1536kbps*/ 2048kbps*/ 3072kbps*/ 4096kbps */ 6144kbps * / 8192kbps*/ 10240kbps*/ 12288kbps*/ 14336kbps*

Default:

- H.264(1): 4096kbps*
- H.264(2): 1536kbps*

* The range of bit rates that can be configured for H.264 bit rates differs depending on the “Image capture size”.

- QVGA, VGA, 320x180, and 640x360: 64kbps - 4096kbps *
- 1280x960 and 1280x720: 256kbps* - 8192kbps *
- 1920x1080: 512kbps* - 14336kbps*

Note

- When “14336kbps” is selected, the number of users who can access H.264 images will be limited to “1”. (Only a single user can access H.264 images.)
- The H.264 bit rate is restricted by “Bandwidth control(bit rate)” on the [Network] tab on the “Network” page. For this reason, the bit rate may be lower than the value when any value with an asterisk (*) on the right is selected.

14. Addition of “PAL monitor switch input” to the “Terminal” settings of “Alarm” (Operating Instructions Configure the alarm settings [Alarm] - Configure the settings relating to the alarm action [Alarm])

SW559 SW558

The screenshot shows the 'Alarm' configuration page with tabs for 'Alarm', 'VMD area', and 'Notification'. The 'Alarm' tab is active. Under the 'Alarm' section, there are three rows for 'Terminal 1', 'Terminal 2', and 'Terminal 3'. A red box highlights the 'Terminal 1' row, where the dropdown menu is set to 'PAL monitor switch input'. Below the terminal settings, there is a 'VMD alarm' section with a 'VMD >>' link. At the bottom, there is a 'Command alarm' section with radio buttons for 'On' and 'Off' (selected), and a text field for 'Originating port number' containing '8181' with '(1-65535)' in parentheses. A 'Set' button is located at the bottom right.

[Terminal 1]

Determine how to use terminal 1.

- **Off:** Not used.
- **Alarm input:** Receives alarms. When “Alarm input” is selected, a pull-down menu for “Close” and “Open” is displayed.
 - **Close:** An alarm is detected when the terminal status is changed to “Close”.
 - **Open:** An alarm is detected when the terminal status is changed to “Open”.

- **Black & white input:** Receives the black & white switchover input. (When the input is set to On, the black & white mode is activated.) **SW559**
- **PAL monitor switch input:** Switches the video format inputted to the output terminal of the adjustment monitor to PAL while the terminal status is changed to “Close”.

Default: PAL monitor switch input (P model), Off (E model)

[Terminal 2]

Determine how to use terminal 2.

- **Off:** Not used.
- **Alarm input:** Receives alarms. When “Alarm input” is selected, a pull-down menu for “Close” and “Open” is displayed. **SW559**
 - **Close:** An alarm is detected when the terminal status is changed to “Close”.
 - **Open:** An alarm is detected when the terminal status is changed to “Open”.
- **Alarm output:** Alarm output will be carried out according to the settings for “Alarm output terminal setup”

Default: Off

[Terminal 3]

Determine how to use terminal 3.

- **Off:** Not used.
- **Alarm input:** Receives alarms. When “Alarm input” is selected, a pull-down menu for “Close” and “Open” is displayed. **SW559**
 - **Close:** An alarm is detected when the terminal status is changed to “Close”.
 - **Open:** An alarm is detected when the terminal status is changed to “Open”.
- **AUX output:** AUX output will be supplied. The [AUX] buttons will be displayed on the “Live” page.

Default: Off

IMPORTANT

- In order for the EXT I/O terminals to detect alarm inputs when the terminal status is changed from Open to Close (On) or from Close to Open (Off), about 100 ms or more is needed. Because alarms cannot be detected for about 5 seconds after a detection is made, alarm inputs received within about 5 seconds after an alarm is detected are not detected.

Note

- AUX is a camera terminal that allows users to operate (Open/Close) arbitrarily from the “Live” page. For example, an operator can remotely control lights in a place where the camera is installed by connecting the terminal to the light controller.
- Refer to the installation guide for further information about input/output rating of each terminal.

15. Addition of “Maximum file size” and “Pre alarm (recording) duration” to the “H.264 recording”

■ Addition of “Maximum file size” to the “H.264 recording”

(Operating Instructions Configure the basic settings of the camera [Basic] - Configure the settings relating to the SD memory card [SD memory card]) (SW559) (SW458)

H.264 recording	
Image capture size	1920x1080
Recording priority	Frame rate
Frame rate*	30fps *
Control time period	24h
Max bit rate	2048kbps *
Image quality	Normal
Refresh interval	1s
Maximum file size	<input type="radio"/> 2 MB <input checked="" type="radio"/> 20 MB

[Maximum file size]

Select the maximum file size for recorded H.264 files (MP4 format).

2MB/20MB

Default: 20MB

■ Addition of “Pre alarm (recording) duration” to the “H.264 recording”

(Operating Instructions Configure the alarm settings [Alarm] - Configure the settings relating to the alarm action [Alarm]) (SW559) (SW458)

H.264 recording(SD memory card)		Max bit rate: 2048 kbps	Recording (memory) size per an alarm: 8 MB
Pre alarm	<input type="radio"/> Use <input checked="" type="radio"/> Not use		
Pre alarm (recording) duration	5s	Available range:1s - 5s *It would be changed depending on the H.264 bitrate setting.	
Post alarm (recording) duration	30s		

[Pre alarm (recording) duration]

Set the duration to save image data on the SD memory card before an alarm occurrence.

1s/ 2s/ 3s/ 4s/ 5s/ 8s/ 10s/ 15s/ 20s/ 25s/ 30s/ 40s/ 50s/ 60s/ 90s/ 120s

• **Default:** 5s

Note

- “Pre alarm (recording) duration” setting is available only when “20MB” is selected for “Maximum file size” in the [SD memory card] tab.
- “Pre alarm (recording) duration” setting may be changed, when “Max bit rate” in the [SD memory card] tab is changed.
- When “2MB” is selected for “Maximum file size”, “Pre alarm (recording) duration” cannot be configured and about 1 MB worth of data is recorded before an alarm occurrence.

16. Addition of "HTTP alarm notification"

(Operating Instructions Configure the alarm settings [Alarm])

HTTP alarm notification		Alarm	
Address 1	<input type="checkbox"/>	http://	Delete
User name			
Password			
Notification data		/cgi-bin/comalarm.cgi?CMD=01	
Address 2	<input type="checkbox"/>	http://	Delete
User name			
Password			
Notification data		/cgi-bin/comalarm.cgi?CMD=01	
Address 3	<input type="checkbox"/>	http://	Delete
User name			
Password			
Notification data		/cgi-bin/comalarm.cgi?CMD=01	
Address 4	<input type="checkbox"/>	http://	Delete
User name			
Password			
Notification data		/cgi-bin/comalarm.cgi?CMD=01	
Address 5	<input type="checkbox"/>	http://	Delete
User name			
Password			
Notification data		/cgi-bin/comalarm.cgi?CMD=01	

Set

[Address 1] - [Address 5]

Enter the IP address or the host name of the HTTP server. Up to 5 destination server addresses can be registered.

Available characters : Alphanumeric characters, the colon (:), the period (.), the underscore (_), and the hyphen (-)

Default: http://

Entry example: "http://IP address: (colon) + port number" or "http://Host name: (colon) + port number"

[Alarm] checkbox

When the checkbox is checked, the HTTP alarm notification will be provided upon an alarm occurrence.

[Delete] button

When this button is clicked, all configured information, including the address, user name, password, and notification data, will be deleted.

[User name]

Enter the user name to access the HTTP server.

Available number of characters: 0~63 characters

Unavailable characters: " & ; \

[Password]

Enter the password to access the HTTP server.

Available number of characters: 0~63 characters

Unavailable characters: " &

[Notification data]

Configure the notification data to be added to the end of the HTTP server configured in "Address".

Default: /cgi-bin/comalarm.cgi?CMD=01

Note

- For "Address 1" to "Address 5", a total of 256 characters can be entered for the address (including "http://") and "Notification data".
- Make sure to enter "/" as the first character for "Notification data".
- Even if the [Set] button is clicked after deleting the contents of "Notification data", "/cgi-bin/comalarm.cgi?CMD=01" will be set.
- If an HTTP alarm fails to be notified, it is entered in the system log.

<Example>

For example, when "192.168.0.100" is set for "Address" and "/cgi-bin/comalarm.cgi?CMD=01" is set for "Notification data", "http://192.168.0.100/cgi-bin/comalarm.cgi?CMD=01" alarm notification is executed.

■ HTTP alarm notification error display

(Operating Instructions About the displayed system log)

The following contents are entered in the system log.

Category	Indication	Description
HTTP alarm notification error	Failed to resolve destination addr. from DNS.	The DNS server settings may be incorrect. Check if the DNS settings are configured correctly.
		The DNS server may be down. Ask the network administrator.
	Failed to find destination of notification	The notification destination IP address may be incorrect. Check if the notification destination IP address is configured correctly.
		The notification destination may be down. Ask the network administrator.

17. Changes to an optional function of “Face detection outline display” and “Advanced func.”

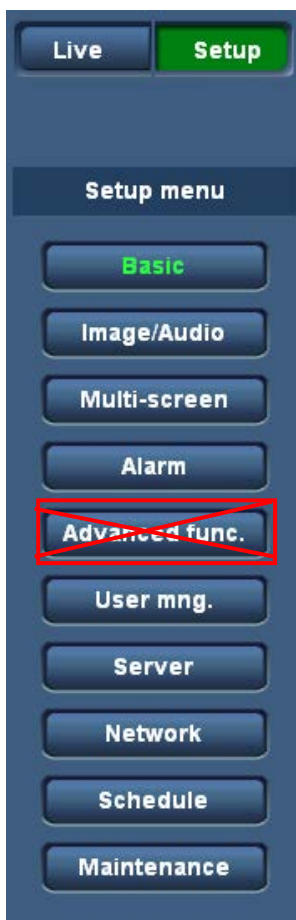
IMPORTANT

- Face detection function that could be used before the upgrading can be continuously used even after upgrading.

(Operating Instructions Monitor images on a PC - About the “Live” page)

The function that displays an outline on the faces detected with the Face detection function displayed on the "Live" page has been changed to an option function.

(Operating Instructions Configure the setting relating to the image recognition [Advanced func.])



The Advanced func. menu has been changed to an optional function.

The Function expansion software is needed in order use the "Advanced func." function. For further information, refer to our website (<http://security.panasonic.com/pss/security/kms/>).

18. Supports SSL Mail Server

(Operating Instructions Configure the settings of the servers [Server] - Configure the settings relating to the E-mail server [E-mail])

The screenshot shows the 'E-mail' configuration page with tabs for 'E-mail', 'FTP', and 'NTP'. The 'E-mail' tab is active. The configuration fields include: SMTP server address, SMTP port (25), POP server address, Authentication Type (None, POP before SMTP, SMTP), Authentication User name, Authentication Password, and Sender's E-mail address. The 'SSL' setting is highlighted with a red box and is currently set to 'Off'.

[SSL]

Select "On" if you want to use SSL encryption when sending E-mail notifications for alarm occurrences or the "Diag." function of SD memory card. When "ON" is selected, because "Authentication Type" is automatically set to "SMTP", the "User name" and "Password" used for authentication must be configured

Default: Off

Note

- SSL supports SMTP over SSL. STARTTLS is not supported
- Depending on the SMTP server used, SSL may not be supported.

19. Addition of "Forcible black & white mode", "Forcible Super Dynamic" to "Schedule"

(Operating Instructions Configure the settings relating to the schedules [Schedule])

The screenshot shows the 'Schedule' configuration page. It features a table with two rows: 'Schedule 1 (White)' and 'Schedule 2 (Blue)'. The 'Schedule mode' dropdown menu is open, showing options: 'Off', 'Alarm permission', 'VMD permission', 'Access permission', 'H.264 recording', 'Forcible black & white mode', and 'Forcible Super Dynamic'. The last two options are highlighted with a red box.

[Schedule mode]

The schedule settings for Alarm permission, VMD permission, Access permission, H.264 recording, Forcible black & white mode, and Forcible Super Dynamic can be configured on the "Schedule" page.

Off: No action will be taken for the respective schedule.

Alarm permission: Alarm input (terminal alarm) will be received during the period of the schedule.

VMD permission: The video motion detection (VMD) function will be active during the period of the schedule.

Access permission: Users whose access level is set to 2 and 3 on the [User auth.] tab can access the camera only in the period of schedule

H.264 recording: The SD recording will be performed at the designated time in the schedule. **SW458**

* The other models already support this function.

Forcible black & white mode: During the period of the schedule, "Day & Night(IR)" will be executed.

Forcible Super Dynamic: During the period of the schedule, "Super Dynamic" will be executed. The "Light control mode" of "Image adjust" is changed to "Outdoor scene".

Default: Off

Note

- Select "On" for "User auth." on the [User auth.] tab of "User mng." page and "Off" for "Host auth." on the "Host auth." page to validate "Access permission".
- When selecting "H.264 recording", select "H.264" for "Recording format" on the [SD memory card] tab and select "Schedule" for "Save trigger". **SW559** **SW458**
- When "Super Dynamic" is switched to "On" from "Off", or to "Off" from "On", the image may be distorted temporarily.

20. Addition of [Time past from the date of manufacture]

(Operating Instructions Maintenance of the camera [Maintenance] - Upgrade the firmware [Upgrade])

	DHCPv6	
Viewer software installation counter		0
Time past from the date of manufacture		1year(s) and 0 month(s)

[Time past from the date of manufacture]

Displays how much time has passed since the date of manufacture.

21. Changes about "Fog compensation"

(Operating Instructions Configure the settings relating to images and audio [Image/Audio] - Configure the settings relating to image adjust, focus, back focus, extra optical zoom, privacy zone, VIQS, and lens distortion compensation [Image quality] - Configure the settings relating to image quality ("Image adjust" setup menu))

Change the location of the "Fog compensation" setup to the bottom of the "Image adjust" setup menu.

*Any changes are updated immediately

Image adjust

Super Dynamic(SD)	<input type="radio"/> On <input checked="" type="radio"/> Off
Face SD	<input type="radio"/> On <input checked="" type="radio"/> Off
Adaptive black stretch	<input type="radio"/> On <input checked="" type="radio"/> Off
Back light compensation (BLC)	<input type="radio"/> On <input checked="" type="radio"/> Off
Mask area	<input type="button" value="Start"/> <input type="button" value="End"/> <input type="button" value="Reset"/>
Light control mode	Outdoor scene <input type="button" value="v"/>
AGC	On(High) <input type="button" value="v"/>
Auto slow shutter	Off(1/30s) <input type="button" value="v"/>
Day & Night(IR)	Auto1(Normal) <input type="button" value="v"/>
Level	<input checked="" type="radio"/> High <input type="radio"/> Low
Dwell time	10s <input type="button" value="v"/>
White balance	ATW1 <input type="button" value="Set"/>
Red gain	<input type="button" value="-"/> <input type="button" value="Reset"/> <input type="button" value="+"/> 128
Blue gain	<input type="button" value="-"/> <input type="button" value="Reset"/> <input type="button" value="+"/> 128
DNR	<input checked="" type="radio"/> High <input type="radio"/> Low
Chroma gain level	<input type="button" value="-"/> <input type="button" value="Reset"/> <input type="button" value="+"/> 128
Aperture level	<input type="button" value="-"/> <input type="button" value="Reset"/> <input type="button" value="+"/> 16
Pedestal level	<input type="button" value="-"/> <input type="button" value="Reset"/> <input type="button" value="+"/> 128
Fog compensation	<input type="radio"/> On <input checked="" type="radio"/> Off
Level	<input type="button" value="-"/> <input type="button" value="Reset"/> <input type="button" value="+"/> 64

22 . Addition of “Portuguese” in [select language] pull-down menu on the Live page

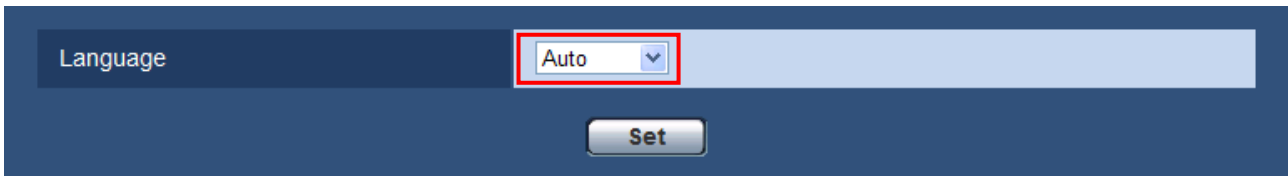
(Operating Instructions Monitor images on a PC - About the “Live” page)

“Portuguese” is added in [select language] pull-down menu.



23. Addition of “Portuguese” in Language selection

(Operating Instructions Configure the basic settings of the camera [Basic] - Configure the basic settings [Basic])



[Language]

Select the language to initially display when the camera is accessed from the following.

Auto/English/Japanese/Italian/French/German/Spanish/Chinese/Russian/Portuguese

Auto: The language used by the browser is automatically selected. If the language used by the browser is not supported by the camera, English is selected.

Default: Auto (P model), English (E model)

The language displayed on the “Live” page can also be changed except “Auto”.

24. Change initial settings for the “Terminal” settings of “Alarm”

(Operating Instructions Configure the alarm settings [Alarm] - Configure the settings relating to the alarm action [Alarm]) **SW559** **SW558**

[Terminal 1]

Default: Off

25 . Change the language of E-mail notification for [Diag.]

(Operating Instructions Configure the alarm settings [Alarm] - Configuration of the settings relating to the E-mail notification [Notification]) **SW158** **SW559** **SW458** **SW598** **SW397**

Note

When the language except "Japanese" is selected for "Language" in [Basic] tab, E-mail body for [Diag.] is displayed in English. When "Japanese" is selected, it is displayed in Japanese.

26. Addition of “Permission level of viewing logs” setting

(Operating Instructions Configure the basic settings of the camera [Basic] -Configure the settings relating to the logs [Log]) **SW598** **SW158** **SW397** **SW598A** **SW397B**

* The other models already support this function.

Category	Setting	Value
Alarm	Save logs	<input checked="" type="radio"/> On <input type="radio"/> Off
	Name of the destination directory for downloaded images	C:\nwcam
Manual/Schedule	Save logs	<input checked="" type="radio"/> On <input type="radio"/> Off
	Name of the destination directory for downloaded images	C:\nwcam
FTP error	Save logs	<input checked="" type="radio"/> On <input type="radio"/> Off
	Name of the destination directory for downloaded images	C:\nwcam
Permission level of viewing logs		<input checked="" type="radio"/> 1. Level 1 only <input type="radio"/> 2. Level 2 or higher <input type="radio"/> 3. All users

[Permission level of viewing logs]

User level settings for viewing and operating "Log" on the "Live" page can be configured.

- **1. Level 1 only:** only Level 1 users can view and operate the "Log".
- **2. Level 2 or higher:** only Level 1 and Level 2 users can view and operate the "Log".
- **3. All users:** all users can view and operate the "Log".

However, only Level 1 and Level 2 users can delete logs, and only Level 1 users can view SD memory card folders.

Default: 1. Level 1 only

27. Addition of “Image capture mode” settings

(Operating Instructions Configure the settings relating to images and audio [Image/Audio] -Configure the settings relating to images [JPEG/H.264]) **SW458**

[Image capture mode]

Select an image to be displayed on the “Live” page.

The following “Image capture mode” settings can be configured depending on the mounting position.

<Ceiling>

2M Double Panorama [16:9]/ 1M Double Panorama [16:9]/ 1.3M Quad PTZ [4:3]/ 1.3M Single PTZ [4:3]/ Double Panorama + Quad PTZ/ Double Panorama + Single PTZ

<Wall>

2M Panorama [16:9]/ 1M Panorama [16:9]/ 1.3M Quad PTZ [4:3]/ 1.3M Single PTZ [4:3]/ Panorama + Quad PTZ/ Panorama + Single PTZ

<Ceiling/Wall>

3M Fisheye [4:3]/ 1.3M Fisheye [4:3]/ 2M Double Panorama + Fisheye/ 1M Double Panorama + Fisheye/ Fisheye + Quad PTZ/ 2M Panorama + Fisheye/ 1M Panorama + Fisheye

<Ceiling>

VGA Quad streams [4:3]

Default: 2M Double Panorama [16:9]

Note

- The types of images that can be displayed using the added "2M Double Panorama + Fisheye", "1M Double Panorama + Fisheye", "Fisheye + Quad PTZ", "2M Panorama + Fisheye", and "1M Panorama + Fisheye" image capture modes are as follows.

Image capture mode type	Image capture mode	Image types	Mounting positions
2 Monitor (Max. 15fps) This type transmits 2 types of images. A maximum of 15 fps transmissions are possible.	2M Double Panorama + Fisheye 1M Double Panorama + Fisheye	Double Panorama Fisheye	Ceiling
	Fisheye + Quad PTZ	Fisheye, Quad PTZ	Ceiling
	2M Panorama + Fisheye 1M Panorama + Fisheye	Panorama, Fisheye	Wall

- The following images can be transmitted with the added image capture modes.

Image capture mode	description
2M Double Panorama + Fisheye	2 megapixel Double Panorama images (with an aspect ratio of 16:9) and 1.3 megapixel Fisheye images (with an aspect ratio of 4:3) can be transmitted at the same time.
1M Double Panorama + Fisheye	1 megapixel Double Panorama images (with an aspect ratio of 16:9) and 1.3 megapixel Fisheye images (with an aspect ratio of 4:3) can be transmitted at the same time.
Fisheye + Quad PTZ	1.3 megapixel Fisheye images (with an aspect ratio of 4:3) and 1.3 megapixel Quad PTZ images (with an aspect ratio of 4:3) can be transmitted at the same time.
2M Panorama + Fisheye	2 megapixel Panorama images (with an aspect ratio of 16:9) and 1.3 megapixel Fisheye images (with an aspect ratio of 4:3) can be transmitted at the same time.
1M Panorama + Fisheye	1 megapixel Panorama images (with an aspect ratio of 16:9) and 1.3 megapixel Fisheye images (with an aspect ratio of 4:3) can be transmitted at the same time.

- The image capture sizes of images from the added image capture modes that can be displayed in the "Live" are as follows. (Excluding multi-screen.)

Image capture mode type	Image capture mode	JPEG	H.264(1)	H.264(2)
2 Monitor (Max. 15fps)	2M Double Panorama + Fisheye	Double Panorama : 1920×1080 640×360 320×180 Fisheye : 1280×960 VGA QVGA	Double Panorama : 1920×1080 640×360 320×180	Fisheye : 1280×960 VGA QVGA
	1M Double Panorama + Fisheye	Double Panorama : 1280×720 640×360 320×180 Fisheye : 1280×960 VGA QVGA	Double Panorama : 1280×720 640×360 320×180	Fisheye : 1280×960 VGA QVGA

2 Monitor (Max. 15fps)	Fisheye + Quad PTZ	Fisheye : 1280×960 VGA QVGA Quad PTZ : 1280×960 VGA QVGA	Fisheye : 1280×960 VGA QVGA	Quad PTZ : 1280×960 VGA QVGA
	2M Panorama + Fisheye	Panorama : 1920×1080 640×360 320×180 Fisheye : 1280×960 VGA QVGA	Panorama : 1920×1080 640×360 320×180	Fisheye : 1280×960 VGA QVGA
	1M Panorama + Fisheye	Panorama : 1280×720 640×360 320×180 Fisheye : 1280×960 VGA QVGA	Panorama : 1280×720 640×360 320×180	Fisheye : 1280×960 VGA QVGA

- The image capture sizes of images from the added image capture modes that can be displayed on cellular phones are as follows.

Image capture mode type	Image capture mode	Image capture size
2 Monitor (Max. 15fps)	2M Double Panorama + Fisheye	Fisheye, Quad PTZ : VGA QVGA
	1M Double Panorama + Fisheye	
	Fisheye + Quad PTZ	
	2M Panorama + Fisheye	Panorama, Double Panorama : 640×360 320×180
	1M Panorama + Fisheye	

Note

The types of images configured in the “Image capture size” of “Live” page (Initial display) are displayed.

- The image capture sizes of images from the added image capture modes that can be displayed on mobile terminals are as follows.

Image capture mode type	Image capture mode	Image capture size
2 Monitor (Max. 15fps)	2M Double Panorama + Fisheye	Fisheye, Quad PTZ : 1280×960 VGA QVGA
	1M Double Panorama + Fisheye	
	Fisheye + Quad PTZ	1M Panorama, 1M Double Panorama : 1280×720 640×360 320×180
	2M Panorama + Fisheye	
	1M Panorama + Fisheye	

Note

The types of images configured in the “Image capture size” of “Live” page (Initial display) are displayed.

• JPEG images in the added image capture modes

(Operating Instructions Configure the basic settings of the camera [Basic] -Configure the settings relating to the SD memory card [SD memory card])

The image capture sizes that can be selected for JPEG images are as follows.

Image capture mode type	Image capture mode	Recording format	Image capture size
2 Monitor (Max. 15fps)	2M Double Panorama + Fisheye 2M Panorama + Fisheye	JPEG	When Double Panorama or Panorama is selected for "Image capture size" on "Live" page (Initial display): 1920×1080 640×360 320×180 When Fisheye is selected for "Image capture size" on "Live" page (Initial display): 1280×960 VGA QVGA
	1M Double Panorama + Fisheye 1M Panorama + Fisheye	JPEG	When Double Panorama or Panorama is selected for "Image capture size" on "Live" page (Initial display): 1280×720 640×360 320×180 When Fisheye is selected for "Image capture size" on "Live" page (Initial display): 1280×960 VGA QVGA
	Fisheye + Quad PTZ	JPEG	When Fisheye is selected for "Image capture size" on "Live" page (Initial display): 1280×960 VGA QVGA When Quad PTZ is selected for "Image capture size" on "Live" page (Initial display): 1280×960 VGA QVGA

• **H.264 images in the added image capture modes**

(Operating Instructions Configure the basic settings of the camera [Basic] -Configure the settings relating to the SD memory card [SD memory card])

The image capture sizes that can be selected for H.264 images are as follows.

Image capture mode type	Image capture mode	Recording format	Image capture size
2 Monitor (Max. 15fps)	2M Double Panorama + Fisheye 2M Panorama + Fisheye	H.264(1) : Double Panorama or Panorama H.264(2) : Fisheye	H.264(1) : 1920×1080 640×360 320×180 H.264(2) : 1280×960 VGA QVGA
	1M Double Panorama + Fisheye 1M Panorama + Fisheye	H.264(1) : Double Panorama, or Panorama H.264(2) : Fisheye	H.264(1) : 1280×720 640×360 320×180 H.264(2) : 1280×960 VGA QVGA
	Fisheye + Quad PTZ	H.264(1) : Fisheye H.264(2) : Quad PTZ	H.264(1) : 1280×960 VGA QVGA H.264(2) : 1280×960 VGA QVGA

• **Self return in the added image capture modes**

(Operating Instructions Configure the settings relating to images and audio [Image/Audio] -Configure the settings relating to the camera operations [Cam. Function])

Self return can be configured when using the "Fisheye + Quad PTZ" image capture mode. The self return function can be used when Quad PTZ images are being displayed.

• **Image adjust, preset position, privacy zone, and VIQS settings in the added image capture modes**

(Operating Instructions Configure the settings relating to images and audio [Image/Audio] -Configure the settings relating to image adjust, preset positions, privacy zone, and VIQS [Image/Position])

Image adjust :

Image quality can be adjusted.

Image quality adjustment is performed on fisheye images.

Preset position (Preset position setup menu) :

Preset positions can be configured.

Settings can be configured when using the "Fisheye + Quad PTZ" image capture mode.

Preset position (Initial position setup menu) :

The initial position setting of panorama and double panorama images can be configured.

Settings can be configured when using the "2M Double Panorama + Fisheye", "1M Double Panorama + Fisheye", "2M Panorama + Fisheye", and "1M Panorama + Fisheye" image capture modes.

Privacy zone :

When there is a zone that you do not want to display, set the zone as a privacy zone not to be displayed. Privacy zone settings are performed on fisheye images.

VIQS :

It is possible to enhance the image quality of the specified range within a shooting area (image).

When "2M Double Panorama + Fisheye", "1M Double Panorama + Fisheye", "2M Panorama + Fisheye", or "1M Panorama + Fisheye" is used for the image capture mode, VIQS can be configured for Double Panorama and Panorama images of H.264(1).

When "Fisheye + Quad PTZ" is used for the image capture mode, VIQS can be configured for Fisheye images of H.264(1).

Alarm images in the added image capture modes

(Operating Instructions Configure the alarm settings [Alarm] -Configure the settings relating to the alarm image [Alarm])

Select the capture size of images to be transmitted to the FTP server, images to be attached to the alarm E-mail, or images to be saved to the SD memory card.

Image capture mode type	Image capture mode	Image capture size
2 Monitor (Max. 15fps)	2M Double Panorama + Fisheye	<ul style="list-style-type: none"> When Fisheye or Quad is selected for "Image capture size" on "Live" page (Initial display)": 1280×960 VGA QVGA
	2M Panorama + Fisheye	<ul style="list-style-type: none"> When Double Panorama or Panorama is selected for "Image capture size" on "Live" page (Initial display)": 640×360 320×180
	Fisheye + Quad PTZ	<ul style="list-style-type: none"> When "Alarm input" is selected for "Save trigger" of the SD memory card, the "1920x1080" size is also available.
	1M Double Panorama + Fisheye	<ul style="list-style-type: none"> When Fisheye is selected for "Image capture size" on "Live" page (Initial display)": 1280×960 VGA QVGA
	1M Panorama + Fisheye	<ul style="list-style-type: none"> When Double Panorama or Panorama is selected for "Image capture size" on "Live" page (Initial display)": 1280×720 640×360 320×180

VMD area in the added image capture modes

(Operating Instructions Configure the alarm settings [Alarm] -Configure the VMD settings [VMD area])

VIQS areas used for detecting the movement of objects can be configured.

VIQS area settings with the added image capture modes are performed with Fisheye images.

• **Face detection* in the added image capture modes**

(Operating Instructions Configure the setting relating to the image recognition [Advanced func.]

-Configuration of the settings relating to the face detection [Face detection])

Face detection information is not added to Fisheye images of the "2M Double Panorama + Fisheye", "1M Double Panorama + Fisheye", "Fisheye + Quad PTZ", "2M Panorama + Fisheye", and "1M Panorama + Fisheye" image capture modes.

* To use the "Face detection" functions, you need to install the extension software.

• **Priority stream in the added image capture modes**

(Operating Instructions Configure the settings relating to the authentication [User mng.] -Configure the settings relating to the priority stream [System])

The description below is the configuration of the priority stream that can transmit images without deteriorating the image quality and refresh interval even when multiple users access concurrently.

The image capture sizes of images that can be specified when priority stream is used can be selected from the following.

Image capture mode type	Image capture mode	Image capture size
2 Monitor (Max. 15fps)	2M Double Panorama + Fisheye	<ul style="list-style-type: none"> When Fisheye or Quad is selected for "Image capture size" on ""Live" page (Initial display)": 1280×960 VGA QVGA When Double Panorama or Panorama is selected for "Image capture size" on ""Live" page (Initial display)": 1920×1080 640×360 320×180
	2M Panorama + Fisheye	
	Fisheye + Quad PTZ	
	1M Double Panorama + Fisheye	<ul style="list-style-type: none"> When Fisheye is selected for "Image capture size" on ""Live" page (Initial display)": 1280×960 VGA QVGA
	1M Panorama + Fisheye	<ul style="list-style-type: none"> When Double Panorama or Panorama is selected for "Image capture size" on ""Live" page (Initial display)": 1280×720 640×360 320×180

28. Addition of "High light compensation(HLC)"

(Operating Instructions Configure the settings relating to images and audio [Image/Audio] - Configure the settings relating to image adjust, focus, back focus, extra optical zoom, privacy zone, VIQS, and lens distortion compensation [Image quality] - Configure the settings relating to image quality ("Image adjust" setup menu)) **SW559** **SW558**

(Operating Instructions Configure the settings relating to images and audio [Image/Audio] - Configure the settings relating to images and the preset positions [Image/Position] - Configure the settings relating to image quality ("Image adjust" setup menu))

SW598 **SW397** **SW598A** **SW397B**

*Any changes are updated immediately

Image adjust	
Super Dynamic(SD)	<input type="radio"/> On <input checked="" type="radio"/> Off
Face SD	<input type="radio"/> On <input checked="" type="radio"/> Off
Adaptive black stretch	<input type="radio"/> On <input checked="" type="radio"/> Off
Back light compensation (BLC)	<input type="radio"/> On <input checked="" type="radio"/> Off
Mask area	<input type="button" value="Start"/> <input type="button" value="End"/> <input type="button" value="Reset"/>
Light control mode	Outdoor scene ▾
AGC	On(High) ▾
Auto slow shutter	Off(1/30s) ▾
Day & Night(IR)	Auto1(Normal) ▾
Level	<input checked="" type="radio"/> High <input type="radio"/> Low
Dwell time	10s ▾
White balance	ATW1 ▾ <input type="button" value="Set"/>
Red gain	<input type="text" value="128"/> <input type="button" value="Reset"/>
Blue gain	<input type="text" value="128"/> <input type="button" value="Reset"/>
DNR	<input checked="" type="radio"/> High <input type="radio"/> Low
Stabilizer	<input type="radio"/> On <input checked="" type="radio"/> Off
Chroma gain level	<input type="text" value="128"/> <input type="button" value="Reset"/>
Aperture level	<input type="text" value="15"/> <input type="button" value="Reset"/>
Pedestal level	<input type="text" value="128"/> <input type="button" value="Reset"/>
Fog compensation	<input type="radio"/> On <input checked="" type="radio"/> Off
Level	<input type="text" value="64"/> <input type="button" value="Reset"/>
High light compensation (HLC)	<input type="radio"/> On <input checked="" type="radio"/> Off
Level	<input type="text" value="16"/> <input type="button" value="Reset"/>

[High light compensation(HLC)]

Select "On" or "Off" to determine whether or not to activate the high light compensation function.

When the high light compensation function is activated, if there are bright lights (such as those from car headlights) at night, blown out highlights of subjects can be limited.

On: Activates the high light compensation function.

Off: Deactivates the high light compensation function.

Default: Off

[Level]

Adjust the HLC level.

The level of HLC will increase when the cursor is moved in the "+" direction, and decrease when

the cursor is moved in the "-" direction. Click the [Reset] button to reset to the default setting.

Default: 16

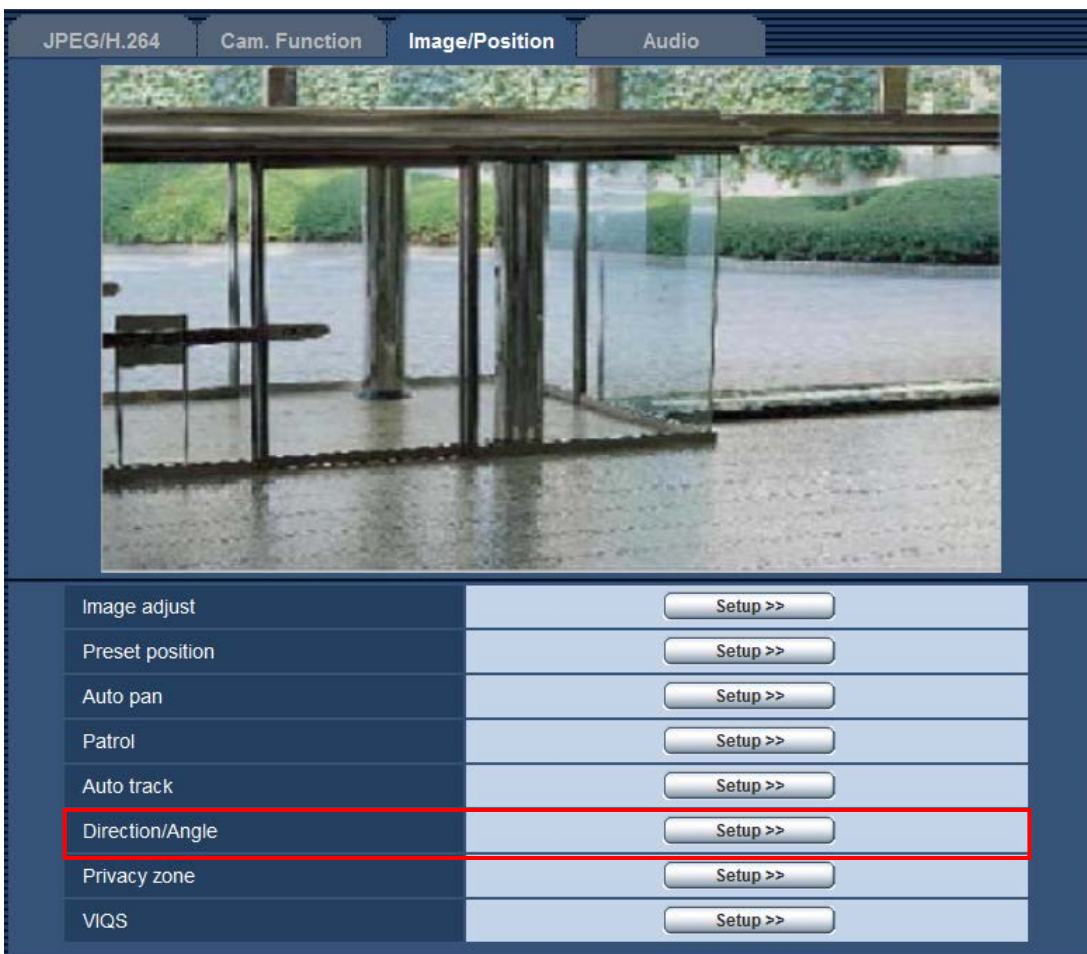
Note

When "On" is selected for "Super Dynamic (SD)" or "Back light compensation (BLC)", this setting is not available.

29. Changes the name of "Direction setting" function

- (Operating Instructions Configure the settings relating to images and audio [Image/Audio]
- Configure the settings relating to images and the preset positions [Image/Position]
- Configure the settings relating to direction ("Direction" setup menu))

SW598 SW397 SW598A SW397B



The name of [Direction setting] has been changed to [Direction/Angle setting].

The [Setup>>] button has been changed to be active regardless of the state of the "Camera position display" setting ([Cam. Function] tag on the "Camera" page). However, the "North point setting" function is only available when "Direction display" is selected for the "Camera position display" setting.

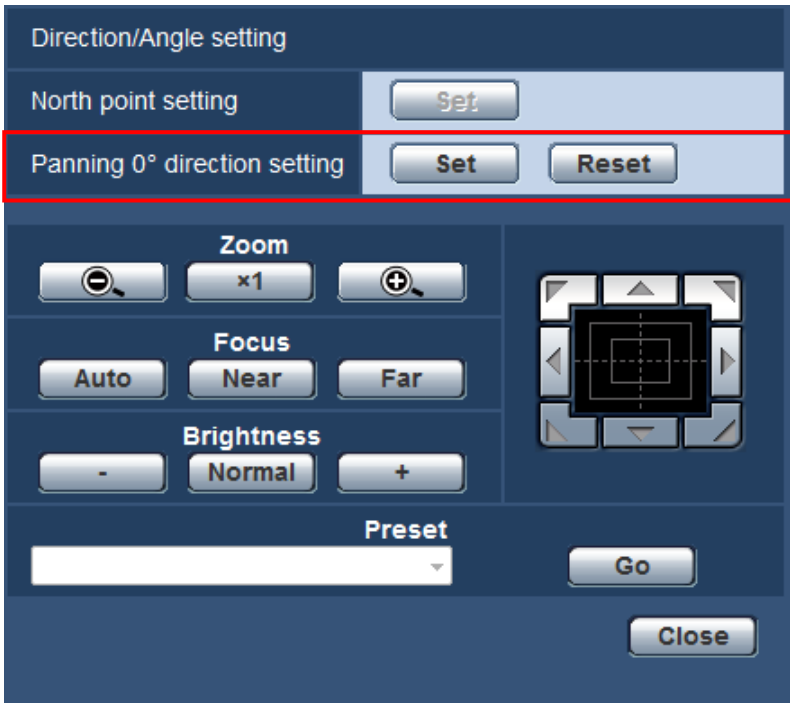
30. Addition of "Panning 0° direction setting"

(Operating Instructions Configure the settings relating to images and audio [Image/Audio]

- Configure the settings relating to images and the preset positions [Image/Position]

- Configure the settings relating to direction ("Direction" setup menu))

SW598 SW397 SW598A SW397B



["Panning 0° direction setting"]

Configure the Panning 0° direction setting. When the [Set] button is clicked after adjusting the angle of view with the control pad/buttons, the current direction of the pan becomes 0°. Click the [Reset] button to reset the setting to the default.

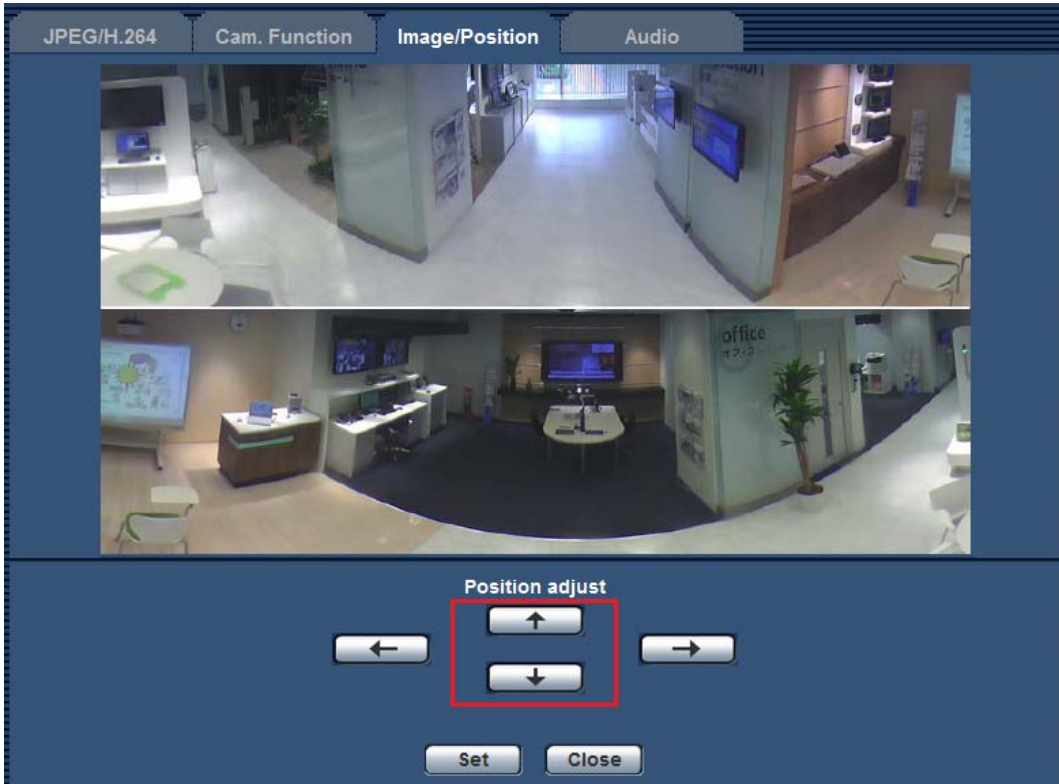
Note

- The tilt 0° angle is not configured.
- Even if the Panning 0° direction is changed, there is no change to the preset positions already configured. The range of the auto pan setting and the actions of the patrol setting already configured are also not changed.
- Thumbnail images displayed before and after changing the Panning 0° direction for the 360 map-shot function are changed.

31. Up/down angle adjustment function for Double Panorama

(Operating Instructions Configure the settings relating to images and audio [Image/Audio]
- Configure the settings relating to image adjust, preset positions, privacy zone, and VIQS [Image/Position] - Configure the preset positions (Initial position setup menu)) **SW458**

Up/down angle adjustment function for Double Panorama has been added.



[Position adjust] buttons



: Images are displayed adjusted to the left. The top and bottom panorama images move together.



: Images are displayed adjusted to the right. The top and bottom panorama images move together.



: Images are displayed adjusted to the upward. The top and bottom panorama images move together.



: Images are displayed adjusted to the downward. The top and bottom panorama images move together.

[Set] button

Saves the adjusted screen position.

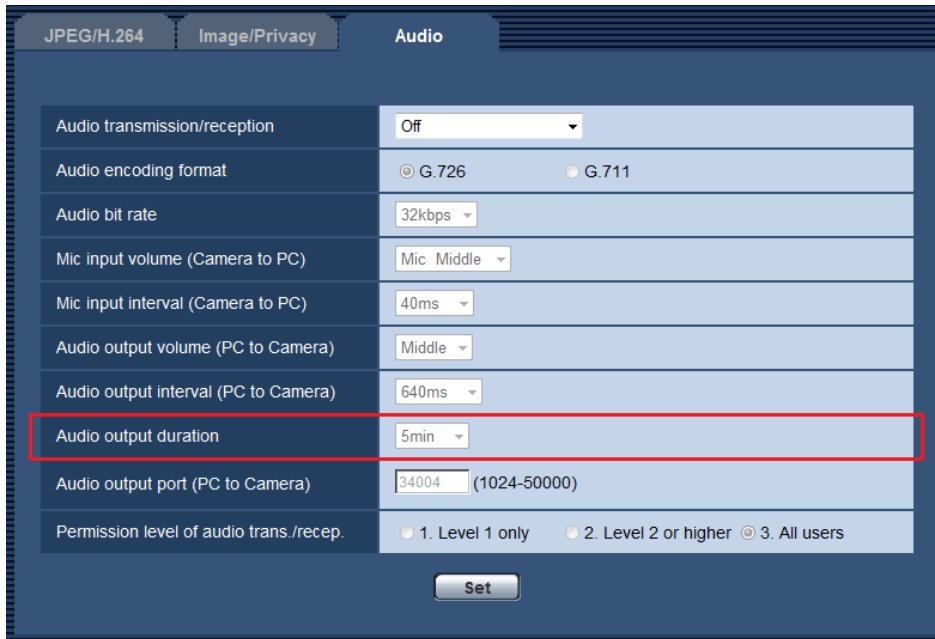
Note

• Adjusting the up/down angle may reduce image quality. Therefore we recommend making adjustments while checking images.

32. Addition of “Audio output duration” setting

(Operating Instructions Configure the settings relating to images and audio [Image/Audio]

- Configure the settings relating to audio [Audio])



Setting	Value
Audio transmission/reception	Off
Audio encoding format	<input checked="" type="radio"/> G.726 <input type="radio"/> G.711
Audio bit rate	32kbps
Mic input volume (Camera to PC)	Mic Middle
Mic input interval (Camera to PC)	40ms
Audio output volume (PC to Camera)	Middle
Audio output interval (PC to Camera)	640ms
Audio output duration	5min
Audio output port (PC to Camera)	34004 (1024-50000)
Permission level of audio trans./recep.	<input type="radio"/> 1. Level 1 only <input type="radio"/> 2. Level 2 or higher <input checked="" type="radio"/> 3. All users

Set

[Audio output duration]

Configure the maximum duration for each time audio is outputted.

1min/2min/3min/5min/10min/20min/30min/1h

Default: 5min

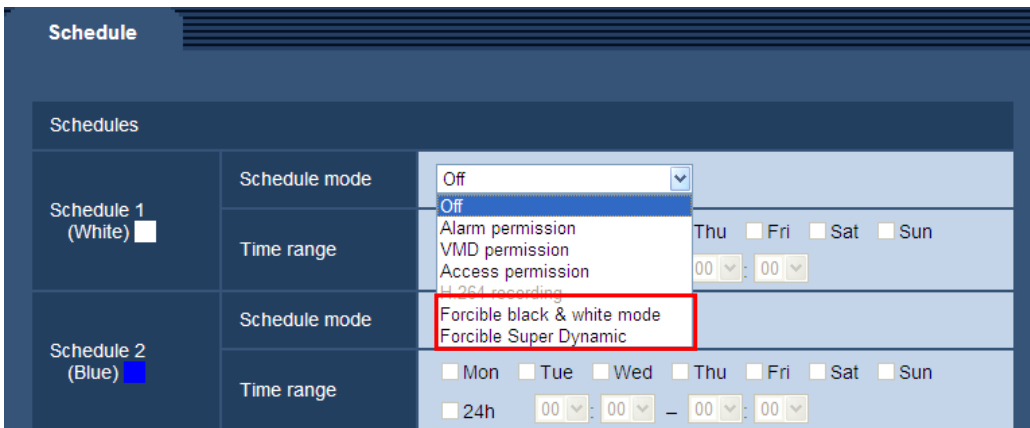
Note

- Audio output stops when the specified time has passed. To turn the audio transmission function on, click the Audio output button again.

33. Addition of “Forcible black & white mode”, “Forcible Super Dynamic” to “Schedule”

(Operating Instructions Configure the settings relating to the schedules [Schedule])

SW598 **SW158** **SW397** **SW598A** **SW397B** * The other models already support this function.

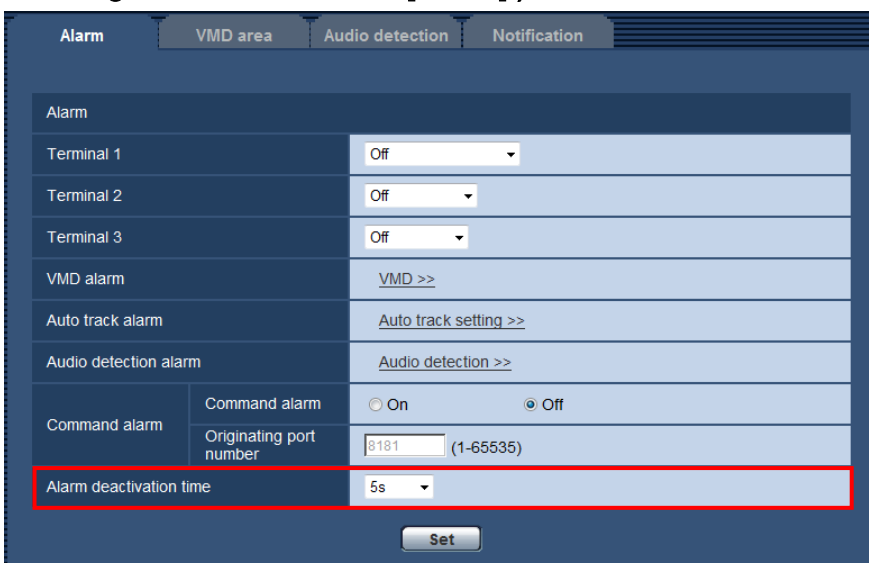


The number of models that support the "Forcible black & white mode" and "Forcible Super Dynamic" functions in [Schedule mode] of the "Schedule" settings has been increased. **SW598A** **SW397B**

Refer to “19.Addition of "Forcible black & white mode", "Forcible Super Dynamic" to "Schedule" ” for further information about the functions and settings.

34. Addition of “Alarm deactivation time” setting

(Operating Instructions Configure the alarm settings [Alarm] - Configure the settings relating to the alarm action [Alarm])



[Alarm deactivation time]

Configure the duration that detections won't be made after an alarm is detected. For example, by using this function you can prevent mail from being sent too often when mail notifications are configured to be sent to cellular phones when an alarm is detected.

5s/10s/30s/1min/3min/5min/10min

Default: 5s

Note

- The duration that alarm detections are not made can be managed for each type of alarm. For example, during the time when detections for command alarms are not made, detections for VMD alarm can be made.

35. Addition of pre alarm to FTP alarm transmission

(Operating Instructions Configure the alarm settings [Alarm] - Configure the settings relating to the alarm image [Alarm])

Alarm image		FTP >>	
Alarm image FTP transmission	<input type="radio"/> On <input checked="" type="radio"/> Off		
Directory name	<input type="text"/>		
File name	<input type="text"/>		
FTP transmission retry	<input type="radio"/> On <input checked="" type="radio"/> Off		
Pre alarm	Transmission interval	Maximum number of images	Recording duration
	1fps	0 pic	0s
	Post alarm	Transmission interval	Number of images
	1fps	100 pics	100s
Image capture size	VGA		
Image compression rate upon alarm detection	<input type="radio"/> On <input checked="" type="radio"/> Off		
Image quality upon alarm detection	5 Normal		

[FTP transmission retry]

Select "On" or "Off" to determine whether or not to resend failed FTP transmissions.

On: If transmission fails, transmissions are resent until they are successfully sent.

Off: If transmission fails, the image that failed to be sent is discarded and the next image is sent.

Default: Off

[Pre alarm]

•Transmission interval

Select the update interval of images before an alarm occurs from the following.

0.1fps/ 0.2fps/ 0.33fps/ 0.5fps/ 1fps

Default: 1fps

•Maximum number of images

Select the number of images to be transmitted from the following.

0pic/ 1pic/ 2pics/ 3pics/ 4pics/ 5pics/ 6pics*/ 7pics*/ 8pics*/ 9pics*/ 10pics*/ 20pics*/ 30pics*/ 50pics*

Default: 0pic

•Recording duration

The recording time, which changes according to the configured "Transmission interval" and "Maximum number of images", of images recorded before an alarm occurs is displayed.

[Post alarm]

•Number of images

Select the number of images to be transmitted from the following.

1pic/ 2pics/ 3pics/ 4pics/ 5pics/ 6pics/ 7pics/ 8pics/ 9pics/ 10pics/ 20pics/ 30pics/ 50pics/ 100pics/ 200pics/ 300pics/ 500pics/ 1000pics/ 1500pics/ 2000pics/ 3000pics

Default: 100pics

* 1500pics has been added as a selection.

Note

- When "On" is selected for "Image compression rate upon alarm detection", only post alarm recorded images are compressed. Compression is not applied to pre alarm recorded images.
- When a selection with an asterisk (*) on the right of it is selected for "Maximum number of images" of "Pre alarm", the specified number of images may not be able to be sent depending on the image capture size and image quality. The following table shows the maximum number of images that can be sent for pre alarm.

Unit: number of images

		Image quality									
		0	1	2	3	4	5	6	7	8	9
Image capture size	1280x960	5	6	7	8	10	10	10	20	30	40
	1280x720	7	8	10	10	10	20	20	30	40	50
	VGA	10	20	20	30	30	40	50	50	50	50
	640x360	20	30	40	50	50	50	50	50	50	50
	QVGA	40	50	50	50	50	50	50	50	50	50
	320x180	50	50	50	50	50	50	50	50	50	50

36. Addition of "HTTP alarm notification"

(Operating Instructions Configure the alarm settings [Alarm])

SW598 **SW158** **SW397** **SW598A** **SW397B**

* The other models already support this function.

The number of models that support the HTTP alarm notification function has been increased.

Refer to "16.Addition of "HTTP alarm notification" " for further information about the functions and settings.

37. Supports SSL Mail Server

(Operating Instructions Configure the settings of the servers [Server] - Configure the settings relating to the E-mail server [E-mail]) **SW598** **SW158** **SW397**

* The other models already support this function.

The screenshot shows a configuration interface with three tabs: E-mail, FTP, and NTP. The E-mail tab is active. The interface contains several input fields and radio buttons. The 'SSL' option is highlighted with a red border. The 'SSL' option has two radio buttons: 'On' and 'Off', with 'Off' selected. Below the 'SSL' option is a 'Set' button.

SMTP server address		<input type="text"/>
SMTP port		<input type="text" value="25"/> (1-65535)
POP server address		<input type="text"/>
Authentication	Type	<input checked="" type="radio"/> None <input type="radio"/> POP before SMTP <input type="radio"/> SMTP
	User name	<input type="text"/>
	Password	<input type="text"/>
Sender's E-mail address		<input type="text"/>
SSL		<input type="radio"/> On <input checked="" type="radio"/> Off

[SSL]

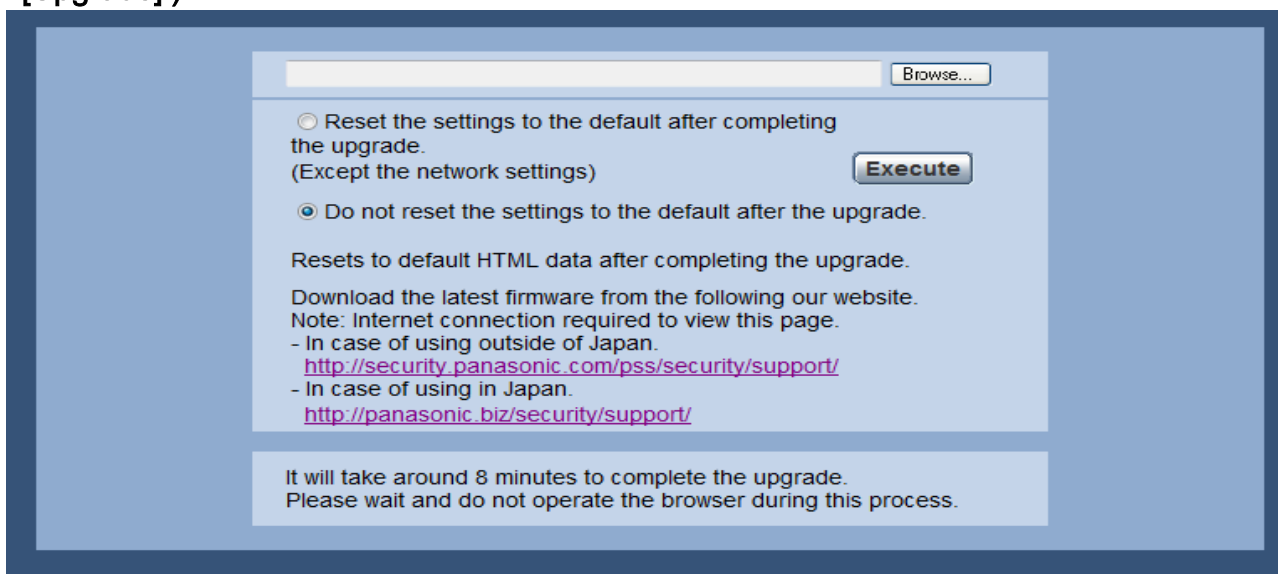
Select "On" if you want to use SSL encryption when sending E-mail notifications for alarm occurrences or the "Diag." function of SD memory card. When "ON" is selected, because "Authentication Type" is automatically set to "SMTP", the "User name" and "Password" used for authentication must be configured

Default: Off

Note

- SSL supports SMTP over SSL. STARTTLS is not supported
- Depending on the SMTP server used, SSL may not be supported.

38. Addition of a support site link to the Upgrade screen (Operating Instructions Maintenance of the camera [Maintenance] - Upgrade the firmware [Upgrade])



A link for support information for network cameras is displayed.

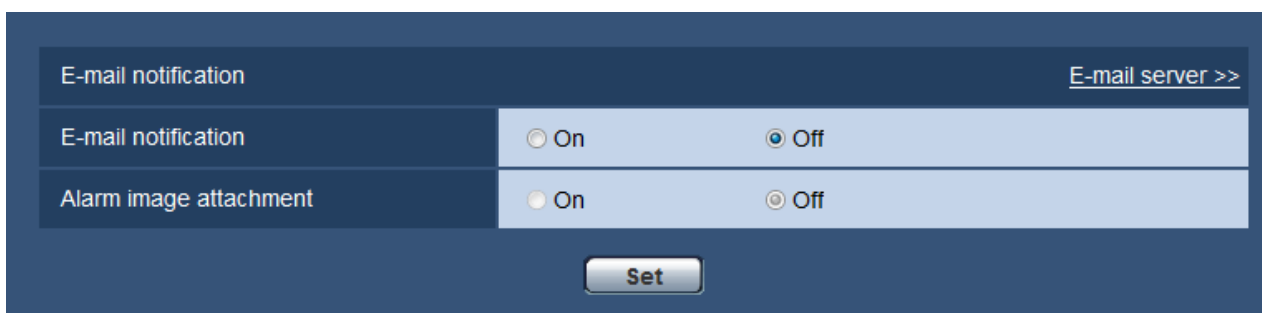
- For use in other countries except Japan
<http://security.panasonic.com/pss/security/support/>
- For use in Japan
<http://panasonic.biz/security/support/>

The support information is displayed when the link is clicked.

Note

- It is necessary to connect to the Internet to display the support information.

39. Changes to image attachments for E-mail information (Operating Instructions Configure the alarm settings [Alarm] - Configuration of the settings relating to the E-mail notification [Notification])



"Alarm image attachment" can now be activated (set to "On") even if "H.264(1)" or "H.264(2)" is selected for "Recording format" ([SD memory card] tab of the "Basic" page).

Note

- The settings for "Image capture size" of the "Alarm image" section on the [Alarm] tab will be applied to the size of the image to be attached. However, images cannot be attached if "1280x960" or "1280x720" is selected for "Image capture size".

40. Changes Time zone settings

(Operating Instructions Configure the basic settings of the camera [Basic] - Configure the basic settings [Basic], Configure the settings of the servers [Server] - Configure the settings relating to the NTP server [NTP])

The Time Zone values have been reviewed and updated to include information current as of October 2014.

City	Before	After
Caracas	GMT-04:00	GMT-04:30
Georgetown	GMT-03:00	GMT-04:00
Minsk	GMT+02:00	GMT+03:00
Sri Jayawardenepura Kotte	GMT+06:00	GMT+05:30
Magadan	GMT+11:00	GMT+10:00

41. Addition of “Upper center” and “Lower center” to the “Position” setting of “OSD”

(Operating Instructions Configure the basic settings of the camera [Basic] - Configure the basic settings [Basic])

[Position]

Select the position where the time and date and a character string to be displayed on the image of the “Live” page.

Upper left: The above information will be displayed at the upper left corner of the main area on the “Live” page.

Lower left: The above information will be displayed at the lower left corner of the main area on the “Live” page.

Upper center: The above information will be displayed at the upper center of the main area on the “Live” page.

Lower center: The above information will be displayed at the lower center of the main area on the “Live” page.

Upper right: The above information will be displayed at the upper right corner of the main area on the “Live” page.

Lower right: The above information will be displayed at the lower right corner of the main area on the “Live” page.

Default: Upper left

42. Warning outputs, usage information, and error information display have been added for SD memory cards

(Operating Instructions Configure the alarm settings [Alarm] - Configure the settings relating to the alarm output terminal [Alarm], Maintenance of the camera [Maintenance] - Check the status [Status])

*Only the model corresponding to an SD memory card

■Addition of SD memory card error outputs

Warnings can output from the alarm output terminal if an error occurs for the SD memory card or if operations have reached a fixed state.

Alarm output terminal setup	
Alarm output trigger	<input type="radio"/> On <input checked="" type="radio"/> Off
SD memory card error	<input type="radio"/> On <input checked="" type="radio"/> Off
Alarm output type	<input checked="" type="radio"/> Latch <input type="radio"/> Pulse
Trigger output	<input type="radio"/> Open <input checked="" type="radio"/> Close
Pulse width	<input type="text" value="1"/> s (1-120s)

Alarm output terminal setup

[SD memory card error]

* Only for models that have alarm output terminals.

Select On or Off to determine whether or not to output signals from the alarm output terminal when an error is detected for the SD memory card.

SD memory card error condition: SD memory card error (write error, read error, etc),

total use time over 6 years, and number of overwrites over 2000 times

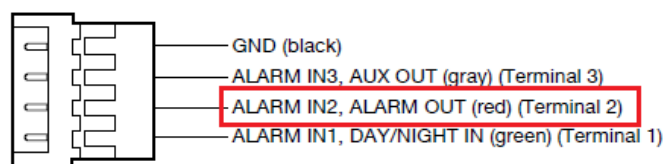
On: When an error status is detected, the signals from an alarm output terminal is outputted

and the “Alarm occurrence indication” button on the “Live” page blinks.

Off: Deactivates the warning status detection.

Default: Off

In order to be able to configure "Alarm output terminal setup", "Alarm output" must be selected for [Terminal2] of the [Alarm] setting.



* 4P alarm cable (accessory) example
(Differs depending on the camera model)

IMPORTANT

- In order to be able to correctly use this function, format the SD memory card with the camera before using it. (When using Ver.1.30 or later of the software.)

Note

- The alarm output terminal and the SD memory card errors use the same alarm output terminal.
- A signal is outputted to the alarm output terminal when either an alarm or SD memory card error occurs.
- When an SD memory card error is detected, the “Alarm occurrence indication” button on the “Live” page blinks. If you click on the “Alarm occurrence indication” button, the button will be hidden.

- Output signals from the alarm output terminal for [SD memory card error] differ depending on the settings of [Alarm output type].
- When "Latch" is selected: Even after you click the "Alarm occurrence indication" button and it disappears, output signals from the alarm output terminal will continue as long as the cause of the [SD memory card error] is not resolved.
- When "Pulse" is selected: Even after you click the "Alarm occurrence indication" button and it disappears, output signals from the alarm output terminal will continue as long as the cause of the [SD memory card error] is not resolved. However, if the time period specified for [Pulse width] is exceeded, output signals from the alarm output terminal will be stopped.

■ Addition of SD memory card usage information/error information displays

SD memory card information and usage status, and error information is displayed on the status window in the [Status] tab of the "Maintenance" page.

SD memory card		
Model no.	SU08G	
Serial no.	C07A787C	
Remaining capacity	7737322KB/7741440KB(Remaining capacity/Original capacity)	
Total use time	384 min (0days)	
Number of overwrite times	0	
No.	Time & date	Description
1	Oct/20/2014 19:07:02	<SD> Write-protect ON (Locked card)

[Model no.]

Displays the model number of the SD memory card.

If model number information could not be obtained, "Read error" is displayed. If the SD memory card is not used, "Not use" is displayed. In other cases "Unknown" is displayed.

[Serial no.]

Displays the serial number of the SD memory card.

If model number information could not be obtained, "Unknown" is displayed.

[Remaining capacity]

Displays the remaining capacity and total capacity of the SD memory card.

This is the same information that is displayed in [Remaining capacity] of the SD memory card information on the [SD memory card] tab of the "Basic" page.

[Total use time]

Displays the length of time that SD memory card has been inserted into and used with the camera.

If the length of time that the SD memory card has been used for cannot be obtained, "Unknown" is displayed. "Total use time" is updated once per hour.

[Number of overwrite times]

Displays the number of overwrite times as calculated from the total capacity of the SD memory card, the number of times the camera has written files to the SD memory card, and the file sizes.

If the number of overwrite times cannot be calculated, "Unknown" is displayed.

Note

Because the overwrite time values are just estimates calculated by the camera, they may differ to the actual number of overwrite times.

[No] / [Time & date] / [Description] of the log

Displays the log related to the SD memory card.

Category	Indication	Description
SD memory card	<SD> Format	Successfully formatted the SD memory card.
	<SD> Format error	Error occurred when formatting the SD memory card.
	<SD> Write-protect ON (Locked card)	A write-protected SD memory card is inserted.
	<SD> Detection error	The SD memory card could not be correctly recognized.
	<SD> Write error	An error occurred when writing to the SD memory card.
	<SD> Read error	An error occurred when reading from the SD memory card.
	<SD> Delete error	An error occurred when deleting data from the SD memory card.
	<SD> File system error	An error occurred in File system of the SD memory card.
	<SD> Undefined error	An error other than the ones above has occurred for the SD memory card.

IMPORTANT

- In order to be able to correctly use this function, format the SD memory card with the camera before using it. (When using Ver.1.30 or later of the software.)
- When using SD memory cards that have been used on other devices such as PCs, the correct information may not be able to be displayed.
- Up to 30 SD memory card logs can be saved to the built-in memory of the camera. When the saved system logs have reached the maximum number, the newer logs will overwrite the older system logs.
- SD memory card logs are erased if the power of the camera is turned off.

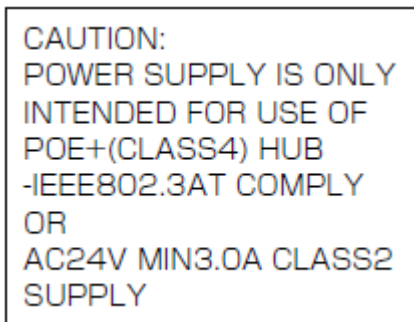
43. Changes to connection information and warning display of the power supply device

(Installation guide Precautions, Operating Instructions Maintenance of the camera [Maintenance] - Check the system log [System log], About the displayed system log)

*WV-SW598, WV-SW397, WV-SW397A, SW598A, SW397B

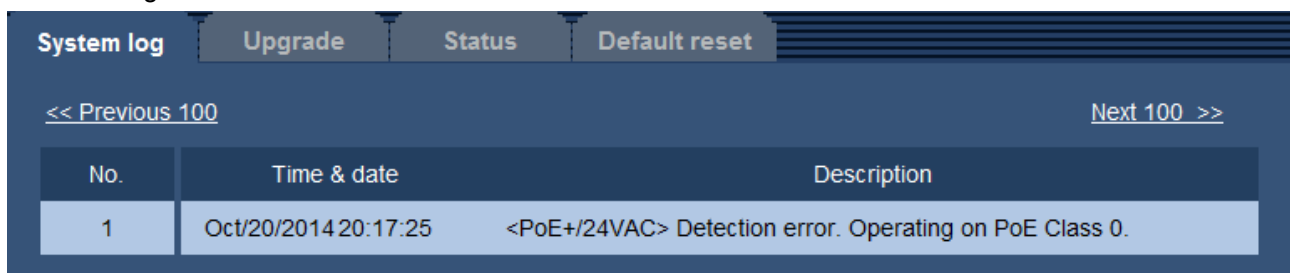
The warning display for when the correct power supply device is not connected has change from the OSD to the [System log] tab on the “Maintenance” page. If a warning is displayed, check that the power supply supports PoE+ (IEEE802.3at compliant), or use an AC 24 V power supply.

●Before changes



Warning display of OSD

●After changes



[System log] tab on the “Maintenance” page

Logs related to power supply connection information/warning displays in the System log

Category	Indication	Description
Power supply	<PoE+/24VAC> Hardware detection is detected. Operating on PoE+/24VAC.	A connection with an AC 24 V power supply or a PoE+ power supply detected with hardware detection method was detected.
	<PoE+> Software detection on LLDP is detected. Operating on PoE+.	A connection with a PoE+ power supply detected with software detection method was detected.
	<PoE+/24VAC> Detection error. Operating on PoE Class 0.	A connection with an AC 24 V power supply or a PoE+ power supply could not be detected. Check that the PoE+ power supply being used supports PoE+ (IEEE802.3at compliant), or use an AC 24 V power supply.

44. Addition of “VBR” to the “Transmission priority” of “H.264”

(Operating Instructions Configure the settings relating to images and audio [Image/Audio] -

Configure the settings relating to H.264 images [JPEG/H.264]) (SW598A) (SW397B)

* (SW598) (SW397) (SW158) support by software version 1.90.

H.264(1)	
H.264 transmission	<input checked="" type="radio"/> On <input type="radio"/> Off
Internet mode (over HTTP)	<input type="radio"/> On <input checked="" type="radio"/> Off
Image capture size	1920x1080
Transmission priority	VBR
Frame rate*	30fps *
Burst tolerance level	Low
Control time period	24h
Max bit rate (per client) *	Max 8192kbps * - Min 512kbps *
Image quality	5 Normal
Smart Coding mode	<input type="radio"/> On <input checked="" type="radio"/> Off
Refresh interval	1s
Transmission type	Unicast port (AUTO)
Unicast port1(Image)	32004 (1024-50000)
Unicast port2(Audio)	33004 (1024-50000)
Multicast address	239.192.0.20
Multicast port	37004 (1024-50000)
Multicast TTL/HOPLimit	16 (1-254)

[Transmission priority]

Select a transmission priority for H.264 images from the following.

- **Constant bit rate:** H.264 images will be transmitted with the bit rate selected for “Max bit rate (per client) *”.
- **VBR:** H.264 images will be transmitted with the frame rate selected for “Frame rate” while preserving the image quality level selected for “Image quality”. Images will be transmitted at a variable bit rate, up to the maximum bit rate selected for “Max bit rate (per client)* ”. Image quality is maintained at a constant, and recording size will vary depending on the “Image quality” setting and the type of subject. If you want to calculate the recording size ahead of time, select “Advanced VBR”.
- **Frame rate:** H.264 images will be transmitted with the frame rate selected for “Frame rate*”.
- **Best effort:** In accordance with the network bandwidth, H.264 images will be transmitted with the bit rate varying between the maximum and minimum bit rates that are set for “Max bit rate (per client)*”.

- **Advanced VBR:** H.264 images will be transmitted with the frame rate selected for “Frame rate*”. Images are transmitted so that the average transmission rate during the period specified for “Control time period” becomes the bit rate selected for “Max bit rate (per client)*”.

Default: Frame rate

Note

- When “Frame rate” or “Advanced VBR” is selected for “Transmission priority”, number of users who can access the camera may be limited more (may become less than 10).
- When “VBR is selected for “Transmission priority”, “Max bit rate (per client)*” should be adjusted for the adequate image quality on the condition of that the image change of subject is big.

[Frame rate*]

Select the frame rate for H.264 images from the following.

1fps / 3fps / 5fps * / 7.5fps * / 10fps * / 12fps * / 15fps * / 20fps * / 30fps *

Default: 30fps *

Note

- This setting is only available when “Transmission priority” is set to “Constant frame rate”, “Advanced VBR”, or “VBR”.
- “Frame rate *” is limited to “Max bit rate (per client) *”. For values indicated by “*”, the actual frame rate may be lower than the selected value. When “Transmission priority” is set to “VBR”, images may freeze periodically depending on the values selected for “Max bit rate (per client) *” and “Image quality”. After changing these settings, confirm the transmitted images.

[Max bit rate (per client)*]

Select an H.264 bit rate per a client from the following.

When “Best effort” is selected for “Transmission priority”, set the maximum and minimum bit rates.

64kbps/ 128kbps*/ 256kbps*/ 384kbps*/ 512kbps*/ 768kbps*/ 1024kbps*/ 1536kbps*/ 2048kbps*/ 3072kbps*/ 4096kbps * / 6144kbps * / 8192kbps*/ 10240kbps*/ 12288kbps*/ 14336kbps*

Default:

- H.264(1): 4096kbps*
- H.264(2): 1536kbps*

* The range of bit rates that can be configured for H.264 bit rates differs depending on the “Transmission priority” and “Image capture size”.

When “Transmission priority” is set to “Constant bit rate”, “Constant frame rate”, “Advanced VBR”, or “Best effort”

- QVGA, VGA, 320x180, and 640x360: 64kbps - 4096kbps *
- 800x600: 128kbps *- 4096kbps * **SW397** **SW397B**
- 1280x960 and 1280x720: 256kbps* - 8192kbps *
- 1920x1080: 512kbps* - 14336kbps* **SW598** **SW598A** **SW158**

When “Transmission priority” is set to “VBR”

- QVGA, VGA, 320x180, and 640x360: 64kbps - 14336kbps *
- 800x600: 128kbps *- 14336kbps * **SW397** **SW397B**
- 1280x960 and 1280x720: 256kbps* - 14336kbps *
- 1920x1080: 512kbps* - 14336kbps* **SW598** **SW598A** **SW158**

Note

- When “14336kbps” is selected, the number of users who can access H.264 images will be limited to “1”. (Only a single user can access H.264 images.)

- The H.264 bit rate is restricted by “Bandwidth control (bit rate)” on the [Network] tab on the “Network” page. For this reason, the bit rate may be lower than the value when any value with an asterisk (*) on the right is selected.

[Image quality]

Select the quality for H.264 images from the following.

- **“Constant bit rate”, “Best effort”:** Low (Motion priority)/ Normal/ Fine (Image quality priority)
- **“VBR”:** 0 Super fine / 1 Fine / 2 / 3 / 4 / 5 Normal / 6 / 7 / 8 / 9 Low

Default: Normal

Note

- This setting is available when “Transmission priority” is set to “Constant bit rate”, “Best effort”, or “VBR”.

45. Addition of “Smart Coding mode” feature

(Operating Instructions Configure the settings relating to images and audio [Image/Audio] - Configure the settings relating to H.264 images [JPEG/H.264]) **SW598A** **SW397B**

H.264(1)	
H.264 transmission	<input checked="" type="radio"/> On <input type="radio"/> Off
Internet mode (over HTTP)	<input type="radio"/> On <input checked="" type="radio"/> Off
Image capture size	1920x1080
Transmission priority	VBR
Frame rate*	30fps *
Burst tolerance level	Low
Control time period	24h
Max bit rate (per client) *	Max 8192kbps * - Min 512kbps *
Image quality	5 Normal
Smart Coding mode	<input type="radio"/> On <input checked="" type="radio"/> Off
Refresh interval	1s
Transmission type	Unicast port (AUTO)
Unicast port1(Image)	32004 (1024-50000)
Unicast port2(Audio)	33004 (1024-50000)
Multicast address	239.192.0.20
Multicast port	37004 (1024-50000)
Multicast TTL/HOPLimit	16 (1-254)
Set	

[Smart Coding mode]

You can turn stream transmission adjustment on and off.

This allows you to reduce the amount of data transmitted when there is little motion in the image.

Default: Off

Note

- This setting is available when “Transmission priority” is set to “VBR”.
- When “Smart Coding mode” is set to “On”, the maximum refresh interval becomes 8s.
- When “Smart Coding mode” is changed from “On” to “Off”, the “Refresh interval” setting returns to the “Off” value.
- When “Smart Coding mode” is set to “On”, motion detection area 4 (red) is disabled.
- Turning Smart Coding mode to “On” will make refresh interval variable between 1s and 8s.
If only I-frame is used for playback and display, the display interval will change.

46. Addition of "15s" and "25s" to the "Dwell time" of "Preset position"

(Operating Instructions Configure the settings relating to images and audio [Image/Audio]

-Configure the settings relating to images and the preset positions [Image/Position]

-Configure the settings relating to the preset positions ("Preset position" setup menu))

SW598 SW397 SW598A SW397B

Preset No

Position No 1

Preset ID On Off

Preset ID (0 – 9,A – Z)

Auto focus Auto Off

Dwell time

*Any changes are updated immediately

Super Dynamic On Off

Back light compensation(BLC) On Off

Mask area

Zoom

Focus

Brightness

[Dwell time]

Select a dwell time (duration the camera stops for at each preset position) for the preset sequence operation.

5s/ 10s/ 15s/ 20s/ 25s/ 30s

Default : 10s

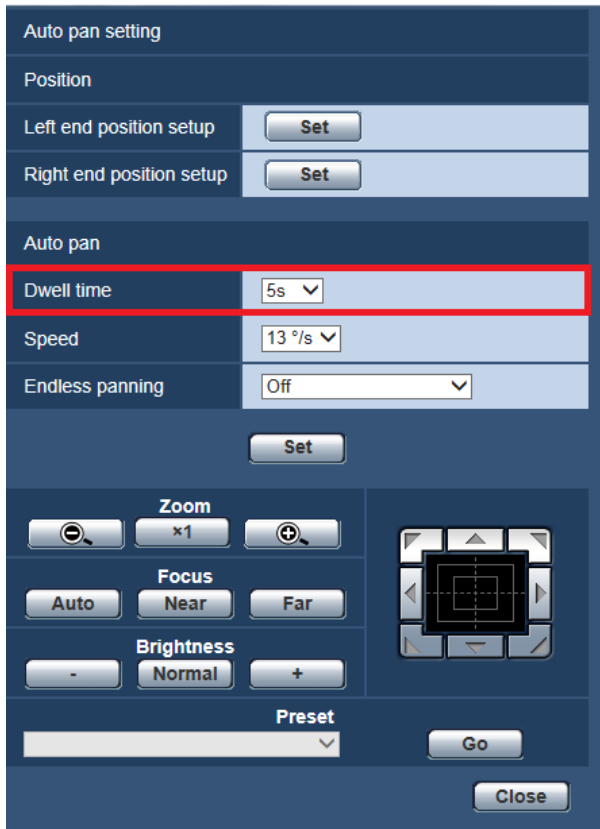
47. Addition of “0s”, “1s”, “2s”, “3s”, “4s”, “15s” and “25s” to the “Dwell time” of “Auto pan”

(Operating Instructions Configure the settings relating to images and audio [Image/Audio]

-Configure the settings relating to images and the preset positions [Image/Position]

-Configure the settings relating to the auto pan function (“Auto pan” setup menu))

SW598 **SW397** **SW598A** **SW397B**



[Dwell time]

Select a dwell time at the start point and the end point from the following.

0s/ 1s/ 2s/ 3s/ 4s/ 5s/ 10s/ 15s/ 20s/ 25s/ 30s

Default : 5s

48. Addition of “Alarm area No.” setting to the “Preset per sender”

(Operating Instructions Configure the alarm settings [Alarm] -Configure the settings relating to the camera action on alarm occurrence [Alarm] -Configure the settings relating to Preset per sender (“Preset per sender” setup menu)) (SW598) (SW397) (SW598A) (SW397B)

Sender's address	Auto track cooperation	Alarm area No.
Sender's address 1	<input type="checkbox"/>	On Off 1
Sender's address 2	<input type="checkbox"/>	On Off 1
Sender's address 3	<input type="checkbox"/>	On Off 1
Sender's address 4	<input type="checkbox"/>	On Off 1
Sender's address 5	<input type="checkbox"/>	On Off 1
Sender's address 6	<input type="checkbox"/>	On Off 1
Sender's address 7	<input type="checkbox"/>	On Off 1
Sender's address 8	<input type="checkbox"/>	On Off 1

When “Alarm area No. action” is on, the camera will move to the preset position only when the “Alarm area No.” conforms with that notified from Sender's address of command alarm.

[Sender's address 1] - [Sender's address 8]

Set the sender's IP address for the command alarm, and the preset position for that address. Up to 8 notification addresses can be set.

[Auto track cooperation] checkbox: When the checkbox is selected, auto tracking starts after the direction of the camera moves to the preset position.

[On/Of] (Alarm area No. action)

Select “On” or “Off” to determine whether or not to perform “Alarm area No. action”.

Default : off

[Alarm area No.]

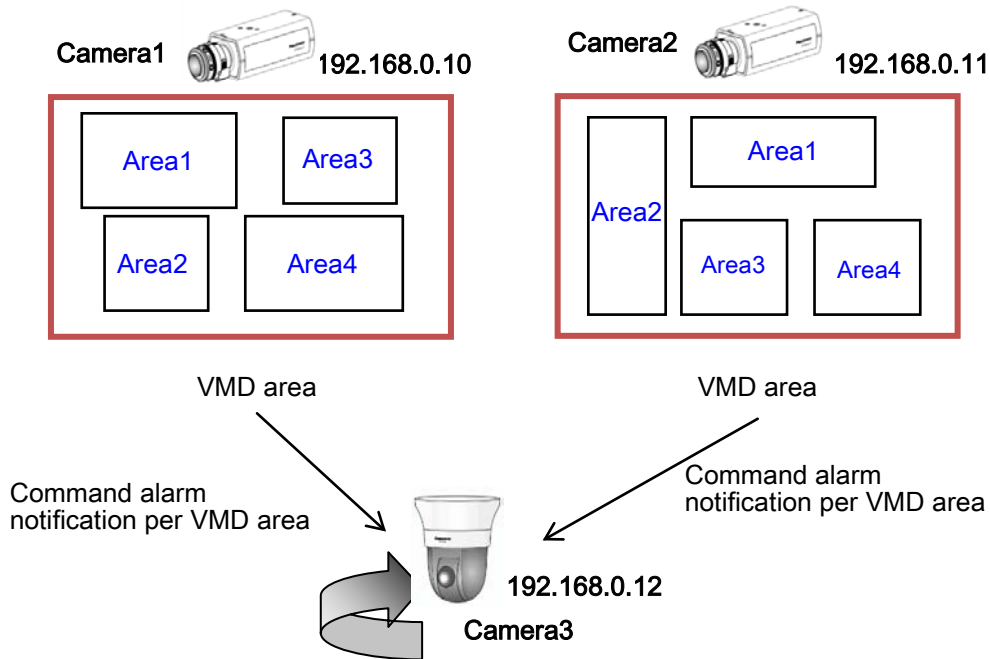
Available range: 1-4

Default : 1

Note

- You need to conform the settings, “Preset per sender” -“Alarm area No.” of this camera and “Notification” -“Destination of notification” -“Notification per VMD area” of the camera which send command alarm to this camera.
- Fixed Dome, Fixed and 360-degree Network Cameras have “Notification per VMD area” function. Dome and Pan/tilt Network Cameras do not have this function. For further information, refer to Operating Instructions of each camera.

**Operation example of “Alarm area No. action”
 (Setting example of the camera 1 and the camera 3)**



The example of the settings of “Alarm area No. action”

- Command alarm from Camera1(Area 1): Camera3 Preset Position1
- Command alarm from Camera1(Area 2): Camera3 Preset Position2
- Command alarm from Camera1(Area 3): Camera3 Preset Position3
- Command alarm from Camera1(Area 4): Camera3 Preset Position4
- Command alarm from Camera2(Area 1): Camera3 Preset Position5
- Command alarm from Camera2(Area 2): Camera3 Preset Position6
- Command alarm from Camera2(Area 3): Camera3 Preset Position7
- Command alarm from Camera2(Area 4): Camera3 Preset Position8

Setup menu of Camera 1 that sends “Command alarm”.

Destination of notification	Alarm	Diag.	Destination server address	
Address 1 Notification per VMD area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	192.168.0.12	Delete
	<input checked="" type="radio"/> On <input type="radio"/> Off		Alarm area No. 1	
Address 2 Notification per VMD area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	192.168.0.12	Delete
	<input checked="" type="radio"/> On <input type="radio"/> Off		Alarm area No. 2	
Address 3 Notification per VMD area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	192.168.0.12	Delete
	<input checked="" type="radio"/> On <input type="radio"/> Off		Alarm area No. 3	
Address 4 Notification per VMD area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	192.168.0.12	Delete
	<input checked="" type="radio"/> On <input type="radio"/> Off		Alarm area No. 4	
Address 5 Notification per VMD area	<input type="checkbox"/>	<input type="checkbox"/>		Delete
	<input type="radio"/> On <input checked="" type="radio"/> Off		Alarm area No. 1	
Address 6 Notification per VMD area	<input type="checkbox"/>	<input type="checkbox"/>		Delete
	<input type="radio"/> On <input checked="" type="radio"/> Off		Alarm area No. 1	
Address 7 Notification per VMD area	<input type="checkbox"/>	<input type="checkbox"/>		Delete
	<input type="radio"/> On <input checked="" type="radio"/> Off		Alarm area No. 1	
Address 8 Notification per VMD area	<input type="checkbox"/>	<input type="checkbox"/>		Delete
	<input type="radio"/> On <input checked="" type="radio"/> Off		Alarm area No. 1	

Setup menu of Camera 3 that receives “Command alarm”.

Camera action on alarm	
Terminal alarm 1	Off
Terminal alarm 2	Off
Terminal alarm 3	Off
VMD alarm	Off
Command alarm	Preset per sender

Preset per sender >>

Preset per sender		
Sender's address 1	192.168.0.10 <input checked="" type="radio"/> On <input type="radio"/> Off	1:PRESET1 Alarm area No. 1
Sender's address 2	192.168.0.10 <input checked="" type="radio"/> On <input type="radio"/> Off	2:PRESET2 Alarm area No. 2
Sender's address 3	192.168.0.10 <input checked="" type="radio"/> On <input type="radio"/> Off	3:PRESET3 Alarm area No. 3
Sender's address 4	192.168.0.10 <input checked="" type="radio"/> On <input type="radio"/> Off	4:PRESET4 Alarm area No. 4
Sender's address 5	192.168.0.11 <input checked="" type="radio"/> On <input type="radio"/> Off	5:PRESET5 Alarm area No. 1
Sender's address 6	192.168.0.11 <input checked="" type="radio"/> On <input type="radio"/> Off	6:PRESET6 Alarm area No. 2
Sender's address 7	192.168.0.11 <input checked="" type="radio"/> On <input type="radio"/> Off	7:PRESET7 Alarm area No. 3
Sender's address 8	192.168.0.11 <input checked="" type="radio"/> On <input type="radio"/> Off	8:PRESET8 Alarm area No. 4

← Camera1 setting

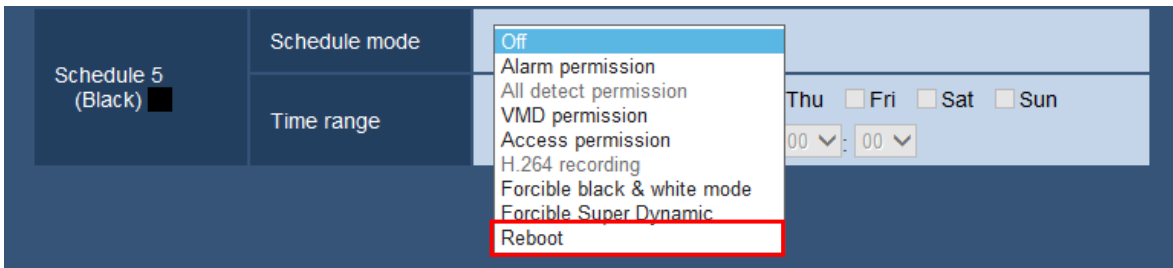
← Camera2 setting

49. Addition of “VBR” to the “Transmission priority” of “H.264”
(Additon of models **SW598** **SW397** **SW158**)

Refer to “44. Addition of “VBR” to the “Transmission priority” of “H.264””.

50.Addition of “Reboot” to “Schedule 5”

(Operating Instructions Configure the settings relating to the schedules [Schedule])



[Schedule mode]

The schedule settings for Alarm permission, VMD permission, Access permission, H.264 recording, Forcible black & white mode, Forcible Super Dynamic and Reboot can be configured on the "Schedule" page.

Off: No action will be taken for the respective schedule.

Alarm permission: Alarm input (terminal alarm) will be received during the period of the schedule.

VMD permission: The video motion detection (VMD) function will be active during the period of the schedule.

Access permission: Users whose access level is set to 2 and 3 on the [User auth.] tab can access the camera only in the period of schedule.

H.264 recording: The SD recording will be performed at the designated time in the schedule.

Forcible black & white mode: During the period of the schedule, “Day & Night(IR)” will be executed.

Forcible Super Dynamic: During the period of the schedule, “Super Dynamic” will be executed. The “Light control mode” of “Image adjust” is changed to “Outdoor scene”.

Reboot: The camera will reboot at the designated time in the schedule. It is impossible to operate the camera for about 2 minutes after rebooting the camera.

Default: Off

Note

- Select “On” for “User auth.” on the [User auth.] tab of “User mng.” page and “Off” for “Host auth.” on the “Host auth.” page to validate “Access permission”.
- When selecting “H.264 recording”, select “H.264” for “Recording format” on the [SD memory card] tab and select “Schedule” for “Save trigger”.
- When "Super Dynamic" is switched to "On" from "Off", or to "Off" from "On", the image may be distorted temporarily.