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.
・Depending on the model used, the screens shown in the explanations may differ to the actual camera screens.
・The model number is abbreviated in some descriptions in this manual.

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.

SFV481 : WV-SFV481, WV-SFN480
SFV781 : WV-SFV781L、WV-SPV781L

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

・Firmware Ver.1.11 (excluding SFV781)

No.	Functions	Item (Page)	Page
1	Link to "Ext. software" display	Upgrade (Maintenance)	2

・Firmware Ver.2.01

No.	Functions	Item (Page)	Page
2	Addition of "Contrast enhancement(RGB:0 to 255)" function	Basic (Basic)	3
3	Addition of "Smart Coding mode" function	JPEG/H.264 (Camera)	4

1. Link to "Ext. software" display

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

The link to “Ext. software” has been added.

Note

・The optional Extension Software are designed to enhance the usefulness of network cameras. Refer to the following URL for details. http://security.panasonic.com/pss/security/kms

2. Addition of "Contrast enhancement(RGB:0 to 255)" function SFV481

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

Viewer software (nwcv4Ssetup.exe)	Automatic installation	On	Off
	Smoother live video display on the browser (buffering)	On	Off
	Contrast enhancement (RGB:0 to 255)	On	Off

[Contrast enhancement(RGB:0 to 255)]

Select "On" or "Off" to determine whether or not to enhance the contrast of H.264 images on the "Live" page. If "On" is selected, the range of RGB signal on display is extended from 16-235 to 0-255.
When there is a bright part in an image, the intensity may be overexposed.

Default: Off

Note

- This setting is only available when viewing images on the "Live" page with Internet Explorer.
- Even if this setting is changed, transmitted image data and data saved on the SD memory card are not changed.

3. Addition of “Smart Coding mode” function

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

H.264(1)	
H.264 transmission	On Off
Internet mode (over HTTP)	On Off
Image capture size	3840x2160
Transmission priority	Frame rate
Frame rate*	15fps *
Burst tolerance level	Low
Control time period	24h
Max bit rate (per client) *	Max 8192kbps * - Min 3072kbps *
Image quality	Normal
Smart Coding mode	On 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)

[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.
- 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.

SFV481

- When "8M Fisheye + Double Panorama", "4M Fisheye + Double Panorama", "8M Fisheye + Quad PTZ", "4M Fisheye + Quad PTZ", "Quad stream", "8M Fisheye + Panorama", or "4M Fisheye + Panorama" is selected for “Image capture mode”, “Smart Coding mode” setting is unavailable.