

Super Dynamic HD Weatherproof Network Camera

# WV-SPW611L WV-SPW611



Yi-VMD Type2 : Intruder Detection / Loitering Detection / Direction Detection / Scene Change Detection / Object Detection / Cross Line Detection

## HD / 1,280 x 720 60 fps H.264 Weatherproof Network Camera featuring Super Dynamic

## Key Features

- 720p HD images up to 60 fps\*1
- Approximate 1/2.8 inches, high sensitivity MOS image sensor
- Multiple H.264 (High profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real time monitoring and high resolution recording.
- Enhanced Super Dynamic<sup>1</sup> and ABS (Adaptive Black Stretch) technologies deliver 133 dB wider dynamic range compared to conventional cameras.
- Smart coding Technology : Group of Pictures (GOP) control function removes unnecessary information from the frame for realizing efficient encoding.
   Auto VIQS (Variable Image Quality on Specified area) function recognizes the no movement area in a video automatically and lowering the resolution of it to reduce the data size.

With the latest bit rate reducing technology, **GOP control**, **Auto VIQS, 3D-MNR** (Multi process Noise Reduction) and **FDF** (Frequency Divided Filter), the network bandwidth and the disk space of recorder can be saved.

- High sensitivity with Day/Night (ICR\*) function : 0.01 lx (Color), 0.003 lx (B/W) at F1.3
   \*ICR: IR Cut filter Removal
- IR LED equipped : The equipped infrared LED makes it possible to take pictures at zero lx. (WV-SPW611L only)
- IR LED is controlled to match the environment, thereby the camera provides clear images of human faces without white blur. (WV-SPW611L only)
- High Speed ABF (Auto Back Focus) and Motorized Zoom ensures easy installation.
- Newly developed lens with aperture control function realizes the best focus in any environment.
- VIQS (Variable Image Quality on Specified area) technology allows the designated **eight areas** to retain higher image quality while the excluded area will have a decreased image quality, which enables to use lower image file size and bit rate.
- Cropping function enables to provide whole image and the part image simultaneously. Up to 4 image capture areas can be specified, and it is also possible to control the sequence.
- Face Super Dynamic technology ensures clear face image.
- Lens distortion compensation for the distorted images can be adjusted 256 steps.
- Selectable light control modes :
- Outdoor scene, Indoor scene (50 Hz) / Indoor scene (60 Hz), Fix shutter Indoor scene (50 Hz/60 Hz) : Flicker caused by fluorescent lightning will be automatically compensated.
- 3x extra optical zoom at 640 x 360 resolution
- 2x, 4x digital zoom controlled by browser

- VMD (Video Motion Detection) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 8 private areas, such as house windows and entrances/exits.
- Camera title display : Up to 20 alphanumeric characters on the browser
- Alarm sources including 3 terminal input, VMD and Panasonic alarm command can trigger actions such as SDXC/SDHC/SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, and Panasonic alarm protocol output.
- Full duplex bi-directional audio allows interactive communication between camera site and monitoring site.
- JPEG Image compression ratio can be changed by alarm so that higher quality image can be provided.
- Prioritized stream control : One of the video streams can be prioritized when multiple recorders or client PCs are accessing the camera so that the recorder or the client PC can maintain the frame rate.
- Double SDXC/SDHC/SD Memory card slots for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (H.264 / JPEG).
- Realize long-term recording and auto backup function.
  Face detection function detects the position of human face and the information is sent by XML or video stream. (Extension Software)
- Can be added new intelligent extension software in addition to built-in VMD (Video Motion Detection), alarm function.
- Fog compensation function equipped as standard.
- Super Chroma Compensation function realizes a better color reproducibility even in low illumination.
- H.264 max. bit rate/client and Total bit rate control allows flexible network traffic management. Frame rate priority mode controls bit rate and compression ratio to provide the specified frame rate.
- Internet mode : H.264 images can be transmitted over HTTP protocol.
- Multi-language : English / Italian / French / German / Spanish /
  Portuguese / Russian / Chinese / Japanese
- IPv4/IPv6 protocol supported
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- ONVIF compliant model
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard, Type 4X(UL50), NEMA 4X compliant.
- Dehumidification device for use with various weather conditions

\*1 Super Dynamic function is automatically set off on 60 fps mode

## **Specifications**

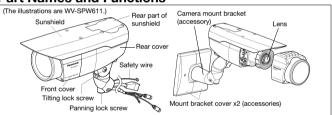
**DISTRIBUTED BY:** 

Camera	Image S		Approx. 1/3 type MOS image sensor
		ig Mode	Progressive scan
	Scannir		4.864 mm (H) x 3.891 mm (V) {3/16 inches (H) x 5/32 inches (V)}
	Minimum Illumination		Color: 0.01 kx, BW : 0.003 kx (F1.3, Maximum shutter : Max. 1/30s, Gain : On(High)) BW : 0 kx (F1.3, Maximum shutter : Off(1/30 s), Gain : High, when the IR LED is Iti)
		Light *1	Color: 0.0007 k, BW : 0.0007 k (F1.3, Maximum shutter: Max. 16/30s, Gain: On(High)) *
	IR LED Light *1		Off / Auto (High / Mid / Low) Approx. 30 m {98.43 feet}
	IR LED irradiation distance *1 White Balance		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)
		ontrol Mode	
	Shutter		Outdoor scene / Indoor scene (50 Hz) / Indoor scene (60 Hz) / Fix shutter [1.3 mega pixel [16 : 9] (60 fps mode)]
	Shutter	Speed	[1:3 mega pixel [16 : 9] (60 fps mode)] OFF(1/60), 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 [Other than 1.3 mega pixel [16 : 9] (60 fps mode)] OFF(1/30), 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500, 1/1000,
	Super Dynamic *3		1/2000, 1/4000, 1/10000 On (High) / On (Normal) / Off
		ıper Dynamic	On / Off (only when Super Dynamic : On)
	Adaptive Black Stretch		On / Off (only when Super Dynamic : Off)
	Fog compensation		On / Off (only when Super Dynamic / Adaptive black stretch : Off)
	High light compensation(HLC)		On / Off (only when Super Dynamic / Adaptive black stretch : Off)
	AGC Maximum shutter		On (Low) / On (Mid) / On (High) / Off max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/100 s, max. 1/60 s,
	Day/Night (ICR) Dynamic Range		max. 1/30 s, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s On / Off / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC) 133 dB typ. (Super Dynamic : On, Light Control Mode : indoor)
	Digital Noise Reduction		High / Low
	Video Motion Detection		4 areas, Sensitivity : 15 steps, Detection size : 10 steps
	Privacy Zone / VIQS		Up to 8 zones
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks)
			ABF / MANUAL (Html only)
	Focus Adjustment Lens Distortion Compensation		256 steps
Lens	Vari Focal Length		2.8 mm - 10 mm {1/8 inches - 13/32 inches}, 3.6x
	Angular Field of View		[16 : 9 mode] Horizontal : 28.4 ° (TELE) - 96.2 ° (WIDE)
	Angular Field Of VIEW		Vertical : 16.1 ° (TELE) - 52.8 ° (WIDE)
			[4:3 mode] Horizontal: 28.4 ° (TELE) - 96.2 ° (WIDE)
			Vertical : 21.4 ° (TELE) - 30.2 (WIDE)
	Maxim	m Aperture Ratio	1 : 1.3 (WIDE) - 1 : 3.0 (TELE)
		g Range	0.3 m - ∞
Adjusting		ig nange	Horizontal : ±100° (Camera mount bracket)
Aujusting	g Angle		Vertical : +30°, -90° (Camera mount bracket)
Browser GUI	Cropping		Off JPEG(1) JPEG(2) JPEG(3) H.264(1) H.264(2) H.264(3) H.264(4) H.264(all) Alarm action On/ Off
	Camera	Control	Brightness, AUX On / Off
	Display		Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad
			screens or 16 split screen (JPEG only). 20 characters camera title available
	Digital 2	Zoom	1x, 2x, 4x controlled by browser GUI
	Camera		Up to 20 alphanumeric characters
	Clock D		Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual)
	Alarm Control		Reset
	One Shot Capture		A still picture will be displayed on a newly opened window.
	Audio		Mic (Line) Input : On / Off         Volume adjustment : Low / Middle / High           Audio Output : On / Off         Volume adjustment : Low / Middle / High
	SD Memory Data Download		Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded
	GUI / Setup Menu Language		English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
	System	Log	Up to 100 (Internal)
	Cuppor	tod 08 *4	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error log
	Supported OS *4		Microsoft <sup>®</sup> Windows <sup>®</sup> 10, Microsoft <sup>®</sup> Windows <sup>®</sup> 8.1, Microsoft <sup>®</sup> Windows <sup>®</sup> 8 Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows Vista <sup>®</sup>
		leu OS 4	
	Suppor		
	Suppor	ted Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari*, Google Chrome*, Mozilla Firefox*
	Suppor		Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit),
Network		ted Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari*, Google Chrome*, Mozilla Firefox*
Network	Networ	ted Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safar', Google Chrome', Mozilla Firefox* * with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector •1.3 mega pixel [16 : 9] (30/60 fps) 1_280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
Network	Networ	ted Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Safart*, Google Chrome*, Mozilla Firefox*           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           *1.3 mega pixel [16 : 9] (30/60 fps)           1_280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           *1.3mega pixel [4 : 3] (30 fps)
Network	Networ	ted Browser < IF lesolution	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome', Mozilla Firefox*           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           +1.3 mega pixel [16 : 9] (30/60 fps)           1_280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           +1.3mega pixel [4 : 3] (30 fps)           1_280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120
Network	Networ	ted Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Safar, Google Chrome*, Mozilla Firefox*           * with limitations in the part of setting screen           10Base-T / 100Base-TX, FJ45 connector           •1.3 mega pixel [16 • 9] (30/60 fps)           1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           •1.3mega pixel [16 • 3] (30 fps)           1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR
Network	Networ	ted Browser IF tesolution Transmission Mode Frame Rate	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 9 (32 bit), Safari, Google Chrome*, Mozilla Firefox*           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           •1.3 mega pixel [16 : 9] (30/60 fps)           1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           •1.3mega pixel [4 : 3] (30 fps)           1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps
Network	Networ	ted Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome', Mozilla Firefox*           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           +1.3 mega pixel [16 : 9] (30/60 fps)           1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           * 1.3 mega pixel [4 : 3] (30 fps)           1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority/ Best effort / Advanced VBR           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           1 / 3 / 5 / 7.5 / 10 / 12 / 16 / 120 / 30 / 60 fps
Network	Networi Image F	cIF lesolution Transmission Mode Frame Rate Bit Rate/Client	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® (32 bit), Saft, "Google Chrome", Mozilla Firefox*           Windows® Internet Explorer® 7 (32 bit), Saft, "Google Chrome", Mozilla Firefox*           * with limitations in the part of setting screen           10Base-T / 100Base-TX, FJ45 connector           •1.3 mega pixel [16 • 9] (30/60 fps)           1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           •1.3mega pixel [16 • 3] (30 fps)           1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           64 / 128 / 266 / 384 / 512 / 768 / 10,24 / 1536 / 20,480 / 3,072 / 4,096 / 6,144 /           61/2 / 12 / 287 / 14,336 / 16,348 / 20,480 / 24,576 / 30,720 / 40,960 ' kbps
Network	Networ	ted Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome', Mozilla Firefox'           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           +1.3 mega pixel [16 : 9] (30/60 fps)           1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           +1.3mega pixel [4 : 3] (30 fps)           1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority/ Best effort / Advanced VBR           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           1 / 3 / 5 / 7.5 / 10 / 12 / 16 / 120 / 30 / 60 fps
Network	Networi Image F	ted Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome', Mozilla Firefox*           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           • 1.3 mega pixel [16 : 9] (30/60 fps)           1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           • 1.3 mega pixel [4 : 3] (30 fps)           1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority/ Best effort / Advanced VBR           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           1 / 3 / 5 / 7.5 / 10 / 12 / 16 / 1.24 / 1.536 / 2.048 / 3.072 / 4.096 / 6.144 /           8.192 / 10,240 / 12.288 / 14,336 / 16.384 / 20,480 / 24.576 / 30.720 / 40.960' kbps           Low(Motion priority) / Normal / Fine(Image quality priority)
Network	Networi Image F	cIF Iransmission Mode Frame Rate Bit Rate/Client Image Quality (Constant bit rateBest effort) Smart Coding mode	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Safar, Google Chrome*, Mozilla Firefox*           *with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           •1.3 mega pixel [16: 9] (30/60 fps)           1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           •1.3mega pixel [16: 9] (30/60 fps)           1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           •1.3mega pixel [16: 9] (30/60 fps)           1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960* kbps           Low(Motion priority) / Normal / Fine(Image quality priority)           On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected)
Network	Networi Image F	ted Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Staff, Google Chrome', Mozilla Firefox'           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           +1.3 mega pixel [16 : 9] (30/60 fps)           1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           +1.3mega pixel [4 : 3] (30 fps)           1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           64 / 128 / 256 / 384 / 152 / 768 / 10.24 / 1.536 / 2.048 / 3.072 / 4.096 / 6.144 / 8.192 / 10.240 / 12.28 / 14.336 / 16.384 / 20.480 / 24.576 / 30.720 / 40.960 ' 6.144 / 8.192 / 10.240 / 12.28 / 14.336 / 16.384 / 20.480 / 24.576 / 30.720 / 40.960 ' 6.144 / 8.192 / 10.240 / 12.28 / 14.336 / 16.384 / 20.480 / 24.576 / 30.720 / 40.960 ' 6.144 / 8.192 / 10.240 / 12.28 / 14.336 / 16.384 / 20.480 / 24.576 / 30.720 / 40.960 ' 6.144 / 8.192 / 10.240 / 12.28 / 14.336 / 16.384 / 20.480 / 24.576 / 30.720 / 40.960 ' 6.144 / 8.192 / 10.240 / 12.28 / 14.336 / 16.384 / 20.480 / 24.576 / 30.720 / 40.960 ' 6.144 / 8.192 / 10.240 / 12.28 / 14.336 / 16.384 / 20.480 / 24.576 / 30.720 / 40.960 ' 6.144 / 8.192 / 10.240 / 12.68 / 14.38 / 10.484 / 20.480 / 24.576 / 30.720 / 40.960 ' 6.144 / 8.192 / 10.240 / 12.38 / 10.54 / 158 / 10.54 / 14.55
Network	Networi Image F	ted Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome', Mozilla Firefox*           * with limitations in the part of setting soreen           10Base-T / 100Base-TX, RJ45 connector           + 1.3 mega pixel [16 : 9] (30/60 fps)           1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           * J.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority/ Best effort / Advanced VBR           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           Low (Motion priority) / Normal / Fine(Image quality priority)           On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected)           0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s           Unicast / Multicast
Network	Networl Image F H.264	cIF Transmission Mode Frame Rate Bit Rate/Client Image Quality (Constant bit rate/Best effort) Smart Coding mode Refresh interval Transmission Type Image Quality	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Safar, "Google Chrome", Mozilla Firefox*           *with limitations in the part of setting screen           10Base-T / 10DBase-TX, RJ45 connector           +1.3 mega pixel [16: 9] (30/60 fps)           1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           +1.3mega pixel [16: 9] (30/60 fps)           1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           64 / 128 / 256 / 384 / 152 / 768 / 10.24 / 158 / 2.048 / 3.072 / 4.096 / 6.144 /           8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960* kbps           Low(Motion priority) / Normal / Fine(Image quality priority)           On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected)           0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s           Unicast / Multicast           10 steps
Network	Networi Image F	ted Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Safarr, Google Chrome', Mozilla Firefox'           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           + 3 mega pixel [16 : 9] (30/60 fps)           1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           +1.3 mega pixel [16 : 9] (30/60 fps)           1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,284 / 14,36 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960 / kbps           Low (Motion priority) / Normal / Fine(Image quality priority)           On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected)           0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s           Unicast / Multicast           10 steps
Network	Networi Image F H.264 *5	cIF lesolution Transmission Mode Frame Rate Bit Rate/Client Image Quality Constant bit nate/Sesteffortj Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Safar, Google Chrome*, Mozilla Firefox*           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           • 1.3 mega pixel [16 • 9] (30/60 fps)           1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           • 1.3mega pixel [14 • 3] (30 fps)           1,280 x 960 x 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           64/ 128 / 256 / 384 / 12/36 / 16384 / 20,480 / 24,576 / 30,722 / 4,096 / 6,144 /           8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,722 / 4,096 / 6,144 /           8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,722 / 4,096 / 6,144 /           8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,722 / 4,096 / 6,144 /           8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,722 / 4,096 / 6,144 /           8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,722 / 4,096 / 6,144 /           8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,722 / 4,096 / 6,144 /           0,102 / 0,25 / 0,33 / 0,05 / 17 / 2 / 3 / 4 / 5s           Unicast / Multicast
Network	Networi Image F H.264 *5	cIF cIF tesolution Transmission Mode Frame Rate Bit Rate/Client Image Quality (Constant bit rate/Best effort) Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Image Solutify Refresh interval Transmission Type Solution Refresh interval Transmission Type Solution Transmission Type Solution Transmission Type Solution Refresh Interval Transmission Type Solution Typ	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Status           Vindows® Internet Explorer® 7 (32 bit), Status           10Base-T / 100Base-TX, RJ45 connector           •1.3 mega pixel [16 : 9] (30/60 fps)           1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           •1.3mega pixel [15 : 3] (30 fos)           1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priontly / Best effort / Advanced VBR           1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           64 / 128 / 256 / 384 / 512 / 768 / 10,24 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960 ' ktps           Low(Motion priority) / Normal / Fine (Image quality priority)           On (Low / Mid / High) / Oft (Only when "Variable bit rate" is selected)           0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s           Unicast / Multicast           10 steps           0.1 [9s - 30 bs.]/PEG and H264 images;           Pul / Push           <
Network	Networ Image F H.264 *5 JPEG Audio O Audio N	Transmission Mode Frame Rate Bit Rate/Client Image Quality (constant bit rate/Best effort) Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Image State State State State Transmission Type Compression Tode	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome', Mozilla Firefox'           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           + .3 mega pixel [16 : 9] (30/60 fps)           1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           + .13 mega pixel [4 : 3] (30 fps)           1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority/ Best effort / Advanced VBR           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           6 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 /           8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960 kbps           Low (Motion priority) / Normal / Fine(Image quality priority)           On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected)           0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s           Unicast / Multicast           10 steps           0.1 fps - 30 fs/ERG frame rate will be restricted when displaying both JPEG and H264 images.           Pull / Push           G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC           Of // Mic (Line) input / Audio output / Interactive (Half duplex) / Interactiv
Network	Networl Image F H.264 *5 JPEG Audio C Audio N	cIF ted Browser <if< p=""> clip clip Clip Construct Transmission Mode Frame Rate Bit Rate/Client Image Quality (constant tir direBest effort) Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Image Quality Governity Compression Iode Ication for Audio</if<>	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® (32 bit), Staff, Google Chrome*, Mozilla Firefox*           Windows® Internet Explorer® 7 (32 bit), Staff, Google Chrome*, Mozilla Firefox*           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           • 1.3 mega pixel [16: 9] (30/60 fps)           1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           • 1.3mega pixel [14: 3] (30 fps)           1.280 x 960 x 800 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 768 / 1.024 / 1.536 / 2.048 / 3.072 / 4.096 / 6.144 /           8.192 / 10.240 / 12.288 / 14.336 / 16.384 / 20,480 / 24.576 / 30.720 / 40.960* kbps           Low (Mid / High) / Off (Only when "Variable bit rate" is selected)           0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s           Unicast / Multicast           10 steps           0.1 fps-30 (ps)(PEG frame rate will be restricted when displaying both JPEG and H264 images.           Pull / Push           G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC           Off / Mic (Line) input / Audio output / Interactive (Hal duplex) / Interactive (Full duplex)
Network	Networl Image F H.264 *5 JPEG Audio C Audio I Authent Total Bi	ted Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Statement Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Statement Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Statement Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Statem, Google Chrome', Mozilla Firefox*           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           +1.3 mega pixel [16 : 9] (30/60 fps)           1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           +1.3mega pixel [13 : 3] (30 fps)           1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBB           1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           64 / 128 / 256 / 384 / 512 / 768 / 1.024 / 1.536 / 2.048 / 3.072 / 4.066 / 6.144 / 8.192 / 10.240 / 12.288 / 14.336 / 16.344 / 20.480 / 24.576 / 30.7207 / 4.066 / 6.144 / 8.192 / 10.240 / 12.288 / 14.336 / 16.344 / 20.480 / 24.576 / 30.7207 / 4.066 / 6.144 / 8.192 / 10.240 / 12.288 / 14.336 / 1.634 / 20.480 / 24.576 / 30.7207 / 40.960 / 6.144 / 8.192 / 10.240 / 12.288 / 14.336 / 1.634 / 20.480 / 24.576 / 30.720 / 40.960 / 6.144 / 8.192 / 10.240 / 12.288 / 14.336 / 1.64 / 4.55           Unicast / Multicast         10           10 steps         10           0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H264 images.
Network	Networl Image F H.264 *5 JPEG Audio C Audio I Authent Total Bi	cIF ted Browser <if< p=""> clip clip Clip Construct Transmission Mode Frame Rate Bit Rate/Client Image Quality (constant tir direBest effort) Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Image Quality Governity Compression Iode Ication for Audio</if<>	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Safarr, Google Chrome', Mozilla Firefox*           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           + .3 mega pixel [16 : 9] (30/60 fps)           1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           + .13 mega pixel [4 : 3] (30 fps)           1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           6 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 /           8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960 kbps           Low (Motion priority) / Normal / Fine(Image quality priority)           On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected)           0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s           Unicast / Multicast           10 steps           0.1 fps - 30 is U/EG frame rate will be restricted when displaying both JPEG and H264 images,           Pull / Push           G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC           M/ Mic (Line) input / Audio output / Interactive (Half duplex)/ Interactive
Network	Networl Image F H.264 *5 JPEG Audio C Audio I Authent Total Bi	ted Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Safarr, Google Chrome*, Mozilla Firefox*           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           • 1.3 mega pixel [16 : 9] (30/60 fps)           1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           • 1.3mega pixel [14 : 3] (30 fps)           1.280 x 960 x 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 768 / 1.024 / 1.536 / 2.048 / 3.072 / 4.096 / 6.144 /           8192 / 10.240 / 12.286 / 14.336 / 16.384 / 20,480 / 24.576 / 30.720 / 40.960* kbps           Low (Mid / High) / Off (Only when "Variable bit rate" is selected)           0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s           Unicast / Multicast           10 steps           0.1 fps -30 (ps (JPEG frame rate will be restricted when displaying both JPEG and H264 images; Pull / Push           G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC           Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users           64 / 128 / 256 / 384 / 512 / 768 / 1/
Network	Networi Image F H.264 '5 JPEG Audio C Audio N Audio N Audio N FTP Cili No. of S	IF     Isolution     Transmission Mode     Frame Rate     Bit Rate/Client     Image Quality     (onstant tit rate/Set effort)     Smart Coding mode     Refresh interval     Transmission Type     Image Quality     Refresh interval     Transmission Type     ioage Quality     Refresh interval     transmession     Transmission Type     ioage Quality     ted Protocol     ent     imultaneous Users	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 7 (32 bit), Safarr, Google Chrome', Mozilla Firefox*           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           + 3.3 mega pixel [16 : 9] (30/60 fps)           1_280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           + 1.3 mega pixel [4 : 3] (30 fps)           1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           4 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 /           8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960 / kbps           Low (Motion priority) / Normal / Fine(Image quality priority)           On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected)           0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s           Unicast / Multicast           10 steps           0.1 fbs - 30 fbg/EG fame rate will be restricted when displaying both JPEG and H264 images.           Pull / Push           G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC           Off // Mic (Line) input / Audio output / Interactive (Half duplex) / Interac
Network	Networi Image F H.264 's JPEG Audio N Authent Total Bi Suppor	clF lesolution Transmission Mode Frame Rate Bit Rate/Client Image Quality (Constant bit rate/Best effort) Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Tode Code Code Code Code Code Code Code C	Windows® Internet Explore® 11 (32 bit), Windows® Internet Explore® 10 (32 bit),           Windows® Internet Explore® 7 (32 bit), Windows® Internet Explore® 8 (32 bit),           Windows® Internet Explore® 7 (32 bit), Staff, Google Chrome*, Mozilla Firefox*           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           * 1.3 mega pixel [16 : 9] (30/60 fps)           1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           * 1.3mega pixel [13 : 9] (30/60 fps)           1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate prionty / Best effort / Advanced VBF           1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           64 / 128 / 256 / 384 / 512 / 768 / 10,24 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 /           8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960 * 6,144 /           8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960 * 6,144 /           9,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960 * 6,144 /           9,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960 * 6,144 /           9,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 42,576 / 30,720 / 40,960 * 6,144 /           9,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 40,960 * 1,928 /           0 fulticians priority / Normal / Fine(Image quality priority)           On (Low / Mid / High) / Off (Onl
Network	Networi Image F H.264 '5 JPEG Audio C Audio N Authent Suppor	ted Browser  (IF  Transmission Mode Frame Rate Bit Rate/Client Image Quality (Onstant bit ralsBest effort) Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Ompression fode ication for Audio Ica	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explore® 8 (32 bit),           Windows® Internet Explore® 9 (32 bit), Windows® Internet Explore® 8 (32 bit),           Windows® Internet Explore® 9 (32 bit), Alternet Explore® 8 (32 bit),           Windows® Internet Explore® 7 (32 bit), Safar, Google Chrome', Mozilla Firefox'           * with limitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           +1.3 mega pixel [16 : 9] (30/60 fps)           1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           +1.3mega pixel [4 : 3] (50 fps)           1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority/ Dest effort / Advanced VBF           [4 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 /           8/12 / 10,240 / 12,288 / 14,366 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960 / kbps           Low(Motion priority) / Normal / Fine(Image quality priority)           On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected)           0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s           Unicast / Multicast           10 steps           0.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC           Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)           Level 1 onty / Level 2 higher / All users           64 / 128 / 256 / 384 / 512 / 768 /
Network	Networ Image F H.264 's JPEG Audio C Audio N Authent Total Bi Suppor	IF     IF     Iesolution     Transmission Mode     Frame Rate     Bit Rate/Client     Image Quality     (Constant bit ratesesteffort)     Constant bit ratesesteffort)     Constant bit ratesesteffort     Transmission Type     Image Quality     Refresh interval     Transmission Type     Image Quality     Refresh interval     Transmission Type     Image Quality     Inage Quality     In	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safarr, Google Chrome', Mozilla Firetox' * with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector • 1.3 mega pixel [16 : 9] (30/60 fps) 1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 1.3mega pixel [4 : 3] (30 fps) 1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 Constant bit rate / Variable bit rate / Framerate priority/ Best effort / Advanced VBF 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1.024 / 1.536 / 2.048 / 3.072 / 4.096 / 6.144 / 8,192 / 10.240 / 12.288 / 14.336 / 16.384 / 20.480 / 24.576 / 30.720 / 40.960 kbps Low(Motion priority) / Normal / Fine(Image quality priority) On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected) 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 55 Unicast / Multicast 10 steps 20 (1 fps - 30 fog JPEG frame rate will be restricted when displaying both JPEG and H264 images Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC Off // Mic [line] input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1.024 / 1.024 / 2.048 / 4.096 / 8.192 kbps / Unlimited IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP IPv4 : TCP/IP, UDP/IP, HTTP, FTNP, STSP, RTP, RTP/RTCP, FTP, SMTP, DHCPv6, DNS, NTP, SNMP, UPA, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDXC/SDHC/SD memory card is available). Up to 14 users (Depends on network conditions) H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure Compatible(JPEG only)
Network	Networ Image F H.264 '5 JPEG Audio C Audio N Authent Suppor FTP Cli Suppor	ted Browser  (IF  Transmission Mode Frame Rate Bit Rate/Client Image Quality (onstant bit ralsBest effort) Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression fode ication for Audio Ica	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 8 (32 bit),         Windows® Internet Explorer® 7 (32 bit), Staff, Google Chrome*, Mozilla Firefox*         Windows® Internet Explorer® 7 (32 bit), Staff, Google Chrome*, Mozilla Firefox*         Windows® Internet Explorer® 7 (32 bit), Staff, Google Chrome*, Mozilla Firefox*         * with limitations in the part of setting screen         10Base-T / 100Base-TX, RJ45 connector         +1.3 mega pixel [16 : 9] (30/60 (ps)         1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90         +1.3mega pixel [13 : 3] (30 (ps)         1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120         Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBF         64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,066 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,344 / 20,480 / 24,576 / 30, 720 / 40,960 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,344 / 20,480 / 24,576 / 30, 720 / 40,960 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,344 / 20,480 / 24,576 / 30, 720 / 40,960 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,344 / 20,480 / 24,576 / 30,720 / 40,960 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,344 / 20,480 / 24,576 / 30,720 / 40,960 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,344 / 20,480 / 24,576 / 30,720 / 40,960 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,344 / 5,8         Unicast / Multicast       10 ateps         0.1 [ps-30 (ps (JPEG frame rate will be restricted when displaying both JPEG and H264 images         Pull / Push       G.726 (ADPCM) 32 kbps / 16 kb
Network	Networ Image F H.264 '5 JPEG Audio C Audio N Audio N Audio N Audio N Suppor FTP Clii Suppor	ted Browser  (IF  Transmission Mode Frame Rate Bit Rate/Client Image Quality (onstant bit rateBast effort) Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression fode ication for Audio t Rate ted Protocol ent	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Staff, Google Chrome', Mozilla Firetox' * with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector • 1.3 mega pixel [16 : 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 1.3mega pixel [4 : 3] (30 fps) 1,280 x 960 / 800 × 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 Constant bit rate / Variable bit rate / Framerate priority/ Best effort / Advanced VBF 14 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,386 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960 / kbps Low(Motion priority) / Normal / Fine(Image quality priority) On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected) 0, 22 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast 10 steps 0.1 fps - 30 fg U/EG frame rate will be restricted when displaying both JPEG and H264 images Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC Off //Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level, ODP/N, HTTP, HTTPS, RTSP, RTSP, RTP, RTP, RTP, PMP, DHCPv6, RTP, MLD, I, OMP, ARP Ve4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP, RTP, RTP, AMP, DHCPv6, RTP, PMLD, I, CMP, ARP Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDXC/SDVCSD memory card is available). Up to 14 users (Depends on network conditions) H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure Compatible(JPEG only) JPEG recording :
Network	Networ Image F H.264 's JPEG Audio D Audio N Audio C Audio N Suppor FTP Cili No. of S SDXC/S Memory 'Use the complete Wanda	IF     IF     Isolution     Transmission Mode     Frame Rate     Bit Rate/Client     Image Quality     (Constant bit rate/Best effort)     Smart Coding mode     Refresh interval     Transmission Type     Image Quality     Refresh interval     Transmission Type     Image Quality     Iranser Volume     Image Quality     Refresh interval     Transmission Type     Image Quality     Card Quality     Ication for Audio     Taate     Ication     Card (Option)     Card (Option)     Card (Option)     Card (Option)     Card that     with UHS-1     h Speed-1) in the case of	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),         Windows® Internet Explorer® 12 (32 bit), Windows® Internet Explorer® 8 (32 bit),         Windows® Internet Explorer® 7 (32 bit), Safarr, Google Chrome', Mozilla Firetox'         * with limitations in the part of setting screen         10Base-T / 100Base-TX, RJ45 connector         + 1.3 mega pixel [16 : 9] (30/60 fps)         1_280 x 720 / 640 x 360 / 320 x 180 / 160 x 90         + 1.3 mega pixel [4 : 3] (30 fps)         1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120         Constant bit rate / Variable bit rate / Framerate piority/ Best effort / Advanced VBF         1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps         64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 /         8,12 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960 kbps         Low(Motion priority) / Normal / Fine(Image quality priority)         On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected)         0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s         Unicast / Multicast         10 steps         0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H264 images         Pull / Push         G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC         Off // Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
Network	Networ Image F H.264 's JPEG Audio D Audio N Audio C Audio N Suppor FTP Cili No. of S SDXC/S Memory 'Use the complete Wanda	ted Browser  (IF  Transmission Mode Frame Rate Bit Rate/Client Image Quality (onstant bit rateBast effort) Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression fode ication for Audio t Rate ted Protocol ent	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),           Windows® Internet Explorer® 12 (32 bit), Windows® Internet Explorer® 8 (32 bit),           Windows® Internet Explorer® 12 (32 bit), Bitament Explorer® 8 (32 bit),           Windows® Internet Explorer® 12 (32 bit), Bitament Explorer® 8 (32 bit),           Windows® Internet Explorer® 12 (32 bit), Bitament Explorer® 8 (32 bit),           Windows® Internet Explorer® 12 (32 bit), Bitami, Google Chrome*, Mozilla Firefox*           * ubit Imitations in the part of setting screen           10Base-T / 100Base-TX, RJ45 connector           +13 mega pixel [16 : 9] (30/60 (ps)           1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           +13.mega pixel [17 : 9] (30/60 (ps)           1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBF           1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 (ps)           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 /           81 / 21 / 0,240 / 12,288 / 14,386 / 16,384 / 20,480 / 2,4576 / 30,720 / 40,966 / 84ps           Low(Motion priority) / Normal / Fine(Image quality priority)           On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected)           0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s           Unicast / Multicast           10 steps           6.726 (ADPCM) 32

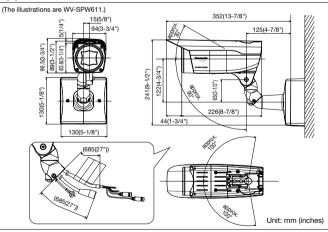
Network	Employment of two SD cards	Dual Recording for Redundancy
NELWOIK	Employment of two SD cards	Series Recording for long time
	Cellular Phone Compatibility	JPEG image. AUX control (by access level)
	Mobile Terminal Compatibility	iPad, iPhone, iPod touch (iOS 4,2,1 or later), Android <sup>™</sup> mobile terminal
Alarm	Alarm Source	3 terminals input, VMD, Command alarm, Audio detection alarm
Alaim	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification
	Alaim Actions	Indication on browser, FTP image transfer, Panasonic protocol output
	Alarm Log	With SDXC/SDHC/SD memory card :
	Alaini Log	Up to 50,000 logs for each SD memory card
	Schedule	Alarm / VMD / Access permission / H.264 recording / Scene file
		-
Input/	Monitor Output	VBS : 1.0 V [p-p]/75 Ω, composite, RCA jack
Output	(for adjustment)	An NTSC or PAL monitor can be connected to the camera
		(use the selector switch or software to select the monitor type).
	Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm monaural mini jack
		(monaural input) (Applicable microphone: Plug-in power type)
		Supply voltage : 2.5 V ±0.5 V
		Input impedance : Approx. 2 kΩ (unbalanced)
	Audio Output	ø3.5 mm stereo mini jack (monaural output)
		Output impedance : Approx. 600 Ω (unbalanced)
	External I/O Terminals	ALARM IN 1 (DAY/NIGHT IN), ALARM IN 2 (ALARM OUT), ALARM IN 3 (AUX OUT)
General	Safety	UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1
	EMS	FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024
	Power Source and	WV-SPW611L :
	Power Consumption	When IR LED is On
		DC power supply : 12 V DC / 1080 mA / Approx. 12.9 W
		PoE (IEEE802.3af compliant) : 48 V DC / 360 mA / Approx. 12.95 W* (Class 0 device)
		WV-SPW611:
		DC power supply : 12 V DC / 670 mA / Approx. 8.1 W
		PoE (IEEE802.3af compliant) : 48 V DC / 230 mA / Approx. 11.1 W* (Class 0 device)
		* Maximum power consumption on the camera power input side.
		** ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY.
	Ambient Operating Temperature	-40 °C to +50 °C (-40 °F to 122 °F)
	Ambient Operating Humidity	10 to 90 % (no condensation)
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible,
		Type 4X(UL50), NEMA 4X compliant
	Dimensions	94 mm (W) x 89 mm (H) x 226 mm (L)
	* Installing using the base bracket	{3-3/4 inches (W) x 3-1/2 inches (H) x 8-7/8 inches (L)}
	Mass (approx.)	1.4 kg {3.09 lbs.}
	Finish	Main body : Aluminum die cast, light gray
		Front cover section clear part : Clear polycarbonate resin

I WV-SPW611L only \*2 Converted value
 '1 WV-SPW611L only \*2 Converted value
 '2 Super Dynamic function is automatically set off on 60 fps mode.
 '4 Refer to \*Notes on Windows Vista® / Windows® 7 / Windows® 8 / Windows® 8.1 / Windows® 10° on
 the provided CD-ROM for further information about system requirements for a PC and precautions when
 using Microsoft® Windows® 10 or Microsoft® Windows® 8.1 or Microsoft® Windows® 8 or
 Microsoft® Windows® 7 or Microsoft® Windows® 8.1
\*5 Transmission for 4 streams can be individually set.

Part Names and Functions



### Appearance



### Trademarks and registered trademarks

Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.
 – "ii-PRO SmartHD" logo is trademark or registered trademarks of Panasonic Corporation.
 – ONVIF and the ONVIF logo are trademarks of ONVIF Inc.
 – All other trademarks identified herein are the property of their respective owners.

- Important

- Safety Precaution: Carefully read the Important Information, Installation Guide and operating instructions before using this product.

- Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.
- Masses and dimensions are approximate. 
   Specifications are subject to change without notice.

## Panasonic

http://security.panasonic.com

F http://www.facebook.com/PanasonicNetworkCamera