



Super Dynamic HD Dome Network Camera WV-SFN311L



\*i-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 Network Camera featuring Super Dynamic

#### Key Features

- 720p HD images up to 60 fps\*1
- Approximate 1/3 inches, high sensitivity MOS image sensor
- Super high resolution at HD/1,280 x 720 created by
- 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 F1.6
  \*ICR: IR Cut filter Removal
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at zero lx.
- IR LED is controlled to match the environment, thereby the camera
- New camera attachment bracket allows an **easy camera installation** toward all four directions.
- ABF (Auto Back Focus) ensures easy installation.
- 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/60Hz):
- Flicker caused by fluorescent lightning will be automatically compensated.
- 2x 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.
- 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.
- 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.
- Newly developed dome cover provides clearer images above the horizontal. Thereby, it expands the tilting range of the lens.
- Face detection function detects the position of human face and the information is sent by XML or video stream. (Optional)
- Can be added new intelligent extension software (Optional) in addition to built-in VMD (Video Motion Detection), alarm function.
- Fog compensation function equipped as standard.
- HLC (High Light Compensation) technology reduces strong light sources such as vehicle headlights to prevent camera being blinded.
- 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 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
- Supports SSL, DDNS (viewnetcam, RFC2136)

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



## **Specifications**

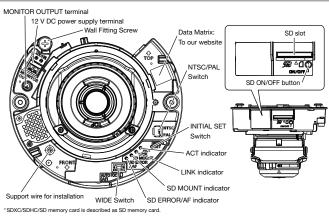
5			
5	Image S	ensor	Approx. 1/3 type MOS image sensor
5	Image Sensor Scanning Mode		Progressive scan
	Scannin	-	4.864 mm (H) x 3.891 mm (V) {3/16 inches(H) x 5/32 inches(V) }
^		-	
	winimun	m Illumination	Color: 0 lx (F1.6, Maximum shutter : OFF (1/30 s), Gain: High, when the IR LED is lit
			0.01 lx, BW: 0.003 lx (F1.6, Maximum shutter : Max. 1/30s, Gain : On(High))
			Color: 0.0007 lx, BW: 0.0002 lx (F1.6, Maximum shutter : Max. 16/30s, Gain : On(High))
	IR LED Light		Off / Auto (High / Mid / Low)
	IR LED irradiation distance		Approx. 30 m {98.43 feet}
V	White Ba	alance	AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K
L	Light Co	ontrol Mode	Outdoor scene : Automatic integration of ALC and ELC
			Indoor scene [50 Hz] : Automatic integration of ALC and ELC with flickerless
L			Indoor scene [60 Hz] : Automatic integration of ALC and ELC with flickerless
S	Shutter S	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,
H	a a 12		1/1000,1/2000, 1/4000, 1/10000
	Super Dynamic <sup>2</sup>		On (High) / On (Normal) / Off
	Face Super Dynamic		On / Off (Only when Super Dynamic : On)
A	Adaptive Black Stretch		On / Off (Only when Super Dynamic : Off)
F	Fog com	npensation	On / Off (Only when Super Dynamic / Adaptive black stretch : Off)
A	AGC		On (Low) / On (Mid) / On (High) / Off
E	Electron	ic Sensitivity UP	max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/100 s, max. 1/60 s,
			max. 1/30 s, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s
l l c	Dav/Nic	ght (ICR)	Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
	Dynamic Range		133 dB typ. (Super Dynamic : On, Light Control Mode : indoor)
	Dynamic Range Digital Noise Reduction		High / Low
	<b>J</b>		
	Video Motion Detection		4 areas, Sensitivity : 15 steps, Detection size : 10 steps
-	Privacy Zone		Up to 8 zones
	VIQS		Up to 8 zones
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks)
	Electric Zoom		TELE / WIDE , Auto Coarse adjustment of Focus
	Focus Adjustment		ABF /MANUAL (Html only)
L	Lens Distortion Compensation		256 steps
Lens \	Vari Focal Length		2.8 - 10mm {1/8 inches - 13/32 inches}
A	Angular	Field of View	[16:9 mode] Horizontal: 27.9° (TELE) – 100.5° (WIDE)
	-		Vertical : 15.7° (TELE) – 54.8° (WIDE)
			Vertical : 15.7° (TELE) – 54.8° (WIDE) [4 : 3 mode] Horizontal : 27.9° (TELE) – 100.0° (WIDE)
			Vertical : 21.0° (TELE) – 73.9° (WIDE)
N	Maximu	im Aperture Ratio	1 : 1.6 (WIDE) - 1 : 4.0 (TELE)
F	Focusing	g Range	0.3 m - ∞
Adjusting A	Angle		Horizontal: ± 180°, Vertical: ± 85°,
	0		Image tilt adjustment range: -225°(Left) to +120°(Right)
Browser	Cropping	q	H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(3)
GUI	olopping .		Up to 4 image capture areas can be specified
6	Camera Control		Brightness, AUX On / Off
	Display I		Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad
1	Display Mode		screens or 16 split screen (JPEG only). 20 characters camera title available.
l l	Digital Zoom		1x, 2x, 4x controlled by browser GUI
	Camera Title		Up to 20 alphanumeric characters
			Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual)
	Clock Display		
	Alarm Co		Reset
	One Shot Capture		A still picture will be displayed on a newly opened window.
I A	Audio		Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
H			Audio Output : On / Off Volume adjustment : Low / Middle / High
		nory Data Download	Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded.
10	GUI / Setup Menu Language		English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
	System Log		Up to 100 (Internal)
		Log	
S		-	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs
S	Support	-	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error logs Microsoff <sup>®</sup> Windows <sup>®</sup> 10, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, 1, Microsoft <sup>®</sup> Windows <sup>®</sup> 8,
S	Support	-	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error logs 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>
5		-	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JFEG) error logs Microsoft <sup>®</sup> Windows <sup>®</sup> 10, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> Vista <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 11 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit),
5		ted OS <sup>*3</sup>	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error logs Microsoft <sup>®</sup> Windows <sup>®</sup> 10, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> 14, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 11 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit),
5		ted OS <sup>*3</sup>	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error logs Microsoft <sup>®</sup> Windows <sup>®</sup> 10, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 1, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 11 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Staff (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Microsoft <sup>®</sup> Windows <sup>®</sup> Internet <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> 10 (3
5	Support	ted OS <sup>13</sup>	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error logs Microsoft <sup>®</sup> Windows <sup>®</sup> 10, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> Nista <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (32 bit), Safari, Google Chrome <sup>+</sup> , Mozilla Firefox <sup>+</sup> with limitations in the part of setting screen
S S Network	Support	ted OS <sup>13</sup>	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JFEG) errorlogs Microsoff® Windows® 10, Microsoff® Windows® 8, Microsoff® Windows® 7, Microsoff® Windows® 1548 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), Safar³, Google Chrome*, Mozilla Firefox* * with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector
Network N	Support Network Image	ted OS <sup>-3</sup> ted Browser k IF	Up to 4,000 (SDXC/SD/HGSD memory when the recording format is set to JPEG) errorlogs Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 10, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (32 bit), Saffar, Google Chrome <sup>*</sup> , Mozilla Firefox <sup>*</sup> * with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector *1.3 mega pixel [16 : 9] (30/60 fps)
Network N	Support	ted OS <sup>-3</sup> ted Browser k IF	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) errorlogs Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> 11 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (22 bit), Safari, Google Chrome <sup>*</sup> , Mozilla Firefox <sup>*</sup> * with limitations in the part of setting screen 10Base-T / 10DBase-TX, RJ45 connector <b>*1.3 mega pixel [16 : 9] (30/60 fps)</b> 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
Network N	Support Network Image	ted OS <sup>-3</sup> ted Browser k IF	Up to 4,000 (SDXC/SD/HG/SD memory when the recording format is set to JFEG) error logs Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 10, Microsoft <sup>®</sup> Windows <sup>®</sup> 1, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 11 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (32 bit), Stari', Google Chrome', Mozilla Firefox <sup>*</sup> * 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)
Network F	Support Network Image Resolutio	ted OS <sup>3</sup> ted Browser k IF	Up to 4,000 (SDXC/SD/HGSD memory when the recording format is set to JPEG) errorlogs 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> 1, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (32 bit), 347n <sup>°</sup> , Google Chrome <sup>*</sup> , Mozilla Firefox <sup>*</sup> * with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector <b>*1.3 mega pixel [16 : 9] (30/60 fps)</b> 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 <b>*1.3 mega pixel [4 : 3] (30 fps)</b> 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120
Network F	Support Network Image	ted OS <sup>3</sup> ted Browser k IF ion Transmission Mode	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JFEG) errorlogs Microsoft <sup>®</sup> Windows <sup>®</sup> 10, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 11 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (32 bit), Safari, Google Chrome <sup>*</sup> , Mozilla Firefox <sup>*</sup> *with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector <b>*1.3 mega pixel [16 : 9] (30/60 fps)</b> 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 <b>*1.3 mega pixel [16 : 3] (30 fps)</b> 1,280 x 960 / 800 x 600 x 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 F	Support Network Image Resolutio	ted OS <sup>3</sup> ted Browser k IF ion Transmission Mode Frame Rate	Up to 4,000 (SDXC/SD/HC/SD memory when the recording format is set to JFEG) error logs 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> 1, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (32 bit), Stafar', Google Chrome <sup>+</sup> , Mozilla Firefox <sup>+</sup> * with limitations in the part of setting screen 10Base-17 / 10DBase-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 * 1.3 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 (ps)
Network F	Support Network Image Resolutio	ted OS <sup>3</sup> ted Browser k IF ion Transmission Mode	Up to 4,000 (SDXC/SD/HGSD memory when the recording format is set to JPEG) error logs Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 10, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 12 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 12 (32 bit), Mindows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 12 (32 bit), Staff, Google Chrome <sup>+</sup> , Mozilla Firefox <sup>+</sup> * 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
Network F	Support Network Image Resolutio	ted OS <sup>3</sup> ted Browser k IF ion Transmission Mode Frame Rate Bit Rate/Client	Up to 4,000 (SDXC/SDHGSD memory when the recording format is set to JPEG) errorlogs 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> 11, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (32 bit), Safari, Google Chrome <sup>*</sup> , Mozilla Firefox <sup>*</sup> * with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector <b>*1.3 mega pixel [16 : 9] (30/60 fps)</b> 1,280 x 960 / 800 x 600 / 460 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 / 286 / 384 / 152 / 768 / 1024 / 1,538 / 2048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 kbps
Network F	Support Network Image Resolutio	ted OS <sup>3</sup> ted Browser k IF ion Transmission Mode Frame Rate Bit Rate/Client Image Quality	Up to 4,000 (SDXC/SD/HG/SD memory when the recording format is set to JFEG) error logs Microsoff® Windows® 7, Microsoft® Windows® 14, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 10 (32 bit) Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit) Windows® Internet Explorer® 7 (32 bit), Stafar', Google Chrome*, Mozilla Firefox* * with limitations in the part of setting screen 10Base-17 / 100Base-TX, FL/45 connector * 1.3 mega pixel [16 : 9] (30/60 fps) 1,280 x 720 / 640 x 380 / 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 64 / 128 / 256 / 384 / 512 / 768 / 1024 / 1,536 / 2048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 kbps Low / Normal / Fine
Network F	Support Network Image Resolutio	ted OS <sup>3</sup> ted Browser k IF ion Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode	Up to 4,000 (SDXC/SD/HGSD memory when the recording format is set to JFEG) error logs Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (32 bit), Safari, Google Chrome <sup>*</sup> , Mozilla Firefox <sup>*</sup> *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 [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 / 57 / 57 / 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 kbps Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected)
Network F	Support Network Image Resolutio	ted OS <sup>3</sup> ted Browser k IF on Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval	Up to 4,000 (SDXC/SD/HGSD memory when the recording format is set to JPEG) errorlogs Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (32 bit), Safari, Google Chrome <sup>*</sup> , Mozilla Firefox <sup>*</sup> * 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 64/128 / 256 / 384 / 512 / 788 / 1024 / 1,356 / 2048 / 3072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 kbps Low / Normal / Fine 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
Network F	Support Network Image Resolutio	ted OS <sup>3</sup> ted Browser k IF ion Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode	Up to 4,000 (SDXC/SD/HGSD memory when the recording format is set to JFEG) error logs Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (32 bit), Safari, Google Chrome <sup>*</sup> , Mozilla Firefox <sup>*</sup> *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 [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 / 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 kbps Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected)
Network Network	Support Network Image Resolutio	ted OS <sup>3</sup> ted Browser k IF on Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval	Up to 4,000 (SDXC/SD/HGSD memory when the recording format is set to JPEG) errorlogs Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (32 bit), Safari, Google Chrome <sup>*</sup> , Mozilla Firefox <sup>*</sup> * 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 64/128 / 256 / 384 / 512 / 788 / 1024 / 1,356 / 2048 / 3072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 kbps Low / Normal / Fine 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
Network Network	Network Image Resolution	ted OS <sup>3</sup> ted Browser k IF on Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) errorlogs 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 <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (32 bit), Safari, Google Chrome <sup>*</sup> , Mozilla Firefox <sup>*</sup> * with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector <b>•1.3</b> mega pixel <b>16</b> • <b>31</b> (30/60 fps) 1,280 × 900 / 800 × 600 / 400 × 400 / 400 × 300 / 320 × 240 / 160 × 120 Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 11 / 15 / 20 / 30 / 60 fps <b>64</b> / 128 / 286 / 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 kbps Low / Normal / Fine 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 Network	Network Image Resolution	ted OS <sup>3</sup> ted Browser k IF on Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality	Up to 4,000 (SDXC/SD/HGSD memory when the recording format is set to JFEG) error logs Microsoft <sup>®</sup> Windows <sup>®</sup> 7, 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 <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 11 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7 (32 bit), Starh <sup>°</sup> , Google Chrome <sup>•</sup> , Mozilla Firefox <sup>*</sup> * with limitations in the part of setting screen 10Base-T/10DBase-TX, RU45 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 [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 priotity / 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 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 ktps Low / Normal / Fine 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
Network Network	Support Network Image Resolutio H.264 <sup>-4</sup>	ted OS <sup>3</sup> ted Browser k IF on Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality	Up to 4,000 (SDXC/SD/HGSD memory when the recording format is set to JPEG) error logs Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Staff, Google Chrome <sup>+</sup> , Mozilla Firefox <sup>+</sup> * 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 / 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 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 / 15 / 20 / 30 / 60 fps 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 / 15 / 20 / 30 / 60 fps 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 / 15 / 20 / 30 / 60 fps 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 / 15 / 12 / 3 / 4 / 55 Com/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 0.1 fps - 30 fps
Network N H	Network Image Resolution H.264 <sup>-4</sup>	ted OS <sup>3</sup> ted Browser k IF on Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval	Up to 4,000 (SDXC)SD/HC/SD memory when the recording format is set to JFG) error logs Microsoff® Windows® 7, Microsoft® Windows® 14, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 14, Microsoft® Windows® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 7 (32 bit), Stafar', Google Chrome', Mozilla Firefox" * with limitations in the part of setting screen 10Base-17 / 10DBase-TX, FL45 connector * 1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 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 E4/128 / 256/384 / 512 / 788 / 1028 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,330 / 16,384 / 20,480 / 24,576 kbps Low / Normal / Fine 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 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.
Network N F J	Network Image Resolution H.264 <sup>-4</sup>	ted OS <sup>3</sup> ted Browser k IF on Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression	Up to 4,000 (SDXC/SD/HGSD memory when the recording format is set to JFGQ) errorlogs Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 10 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 8 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 12 bit), Staff, Google Chrome <sup>+</sup> , Mozilla Firefox <sup>+</sup> *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 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 kbps Low / Normal / Fine 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 H.264 images. Pul/ Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC <sup>5</sup>
Network N F J	Support Network Image Resolution H.264 <sup>44</sup>	ted OS <sup>3</sup> ted Browser k IF on Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression	Up to 4,000 (SDXC)SD/HCSD memory when the recording format is set to JFEG) error logs Microsoff® Windows® 7, Microsoft® Windows® 14, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 14, Microsoft® Windows® 1, Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 7 (32 bit), Stafar', Google Chrome', Mo2la Firstov 10Base-17, 10DBase-TX, FL, HJ45 connector *1.3 mega pixel [16:9] (30/60 fps) 1,280 x 720 / 640 x 380 / 320 x 180 / 160 x 90 *1.3 mega pixel [14:3] (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 / 57 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1024 / 1,536 / 2048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 kbps Low / Normal / Fine 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 H.264 images. Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / ACA-LC <sup>5</sup> Off / Mic (Line) input / Audio output / Interactive (Half duplex) /
S S Network N F F F	Support	ted OS <sup>3</sup> ted Browser k IF on Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression tode	Up to 4,000 (SDXC)SD/HCSD memory when the recording format is set to JPEG) error logs Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 11, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9, (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9, (32 bit), Mindows <sup>®</sup> 11, 32 bit), Jol 12 / Jol 5 (20 / 30 / 06 pls 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 / 20,456 / 24,576 kbps Low / Normal / Fine 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 H.264 images Pull / Pull Pull / Pull Microsoft / Mic (Line) input / Audio output / In
S S Network H H F F A Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	Support	ted OS <sup>3</sup> ted Browser k IF on Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression lode	Up to 4,000 (SDXC/SD/HGSD memory when the recording format is set to JFGQ) error logs Microsoff® Windows® 7, Microsoft® Windows® 14, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 12 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 12 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 12 (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 •1.3 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 4 / 128 / 256 / 384 / 512 / 768 / 1024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 kbps Low / Normal / Fine 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 (JFEG frame rate will be restricted when displaying both JPEG and H.264 images. Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC <sup>5</sup> Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users
S S S S S S S S S S S S S S S S S S S	Network Image Resolution H.264 <sup>4</sup> JPEG Audio Ca Audio M Authentit Total Bit	ted OS <sup>3</sup> ted Browser ied Browser ied Browser interfeature frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression lode ication for Audio Rate	Up to 4,000 (SDXC)SD/HCSD memory when the recording format is set to JFEG) error logs Microsoff® Windows® 7, Microsoft® Windows® 14, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 14, Microsoft® Windows® Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 7 (32 bit), Stafar', Google Chrome', Mozilla Firefoxt* * with limitations in the part of setting screen 10Base-17 / 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 * 1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 750 / 640 x 360 / 320 x 180 / 160 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 Ed/128 / 256/384 / 512 / 768 / 1024 / 1,536 / 2048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 24,576 kbps Low / Normal / Fine 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 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images. Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC <sup>55</sup> Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 266 / 344 / 51 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited
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S S S S S S S S S S S S S S S S S S S	Network Image Resolution H.264 <sup>4</sup> JPEG Audio Ca Audio M Authentit Total Bit	ted OS <sup>3</sup> ted Browser ied Browser ied Browser interfeature frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression lode ication for Audio Rate	Up to 4,000 (SDXC/SD/HCSD memory when the recording format is set to JFEG) error logs Microsoff® Windows® 7, Microsoft® Windows® 14, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 12 (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 / 240 x 180 / 160 x 90 •1.3 mega 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 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 / 15 / 20 / 30 / 60 fps Cn (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 (JF26 (ADPCM) 32 kbps / 16 kbps, G,711 64 kbps / AAC-LC <sup>5</sup> 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 / 1024 / 2,048 / 4,049 / 4,049 / 4,192 / Unimited IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, MLD, ICMP, ARP
S S S S S S S S S S S S S S S S S S S	Network Image Resolution H.264 <sup>4</sup> JPEG Audio Ca Audio M Authentit Total Bit	ted OS <sup>3</sup> ted Browser ied Browser ied Browser interfeature frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression lode ication for Audio Rate	Up to 4,000 (SDXC)SD/HCSD memory when the recording format is set to JFG) error logs Microsoft <sup>®</sup> Windows <sup>®</sup> 10, Microsoft <sup>®</sup> Windows <sup>®</sup> 18, Microsoft <sup>®</sup> Windows <sup>®</sup> 8, Microsoft <sup>®</sup> Windows <sup>®</sup> 11, Microsoft <sup>®</sup> Windows <sup>®</sup> 118, Microsoft <sup>®</sup> Windows <sup>®</sup> 11, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9, (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9, (32 bit), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7, (32 bit), Safar <sup>1</sup> , Google Chrome <sup>1</sup> , Mozilla Firefox <sup>4</sup> * With limitations in the part of setting screen 10Base-7, 10DBase-TX, RJ45 connector * 1.3 mega pixel [16 : 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 220 x 180 / 160 x 90 * 1.3 mega pixel [14 : 3] (30 fbs) 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 / 1024 / 1,536 / 2048 / 30/72 / 4,096 / 6,144 / 8,192 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 kbps Low / Normal / Fine 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 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images. Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC <sup>®</sup> 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 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, RTS, RTP, RTP, RTP, RTP, RTP, RTP, PK, PTP, SMTP, IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTS, RTP, RTP, RTP, RTP, RTP, PK, PTP, SMTP, IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTS, RTP, RTP, RTP, RTP, RTP, RTP, PK, PTP, SMTP, IPv4 : T
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Network	SDXC/SDHC/SD Memory Card (Option) * Manufactured by Panasonic (SD speed class 4 or higher) * Use the SD memory card that complies with UHS-1 (Utras High Speed-1) in the case of SD Speed Class 10. Cellular Phone Compatibility Mobile Terminal Compatibility	H.264 recording : Manual REC / Alam REC (Pre/Post) / Schedule REC / Backup upon network failure JPEG recording : Manual REC / Alam REC (Pre/Post) / Backup upon network failure Compatible SD (SDHC/SDXC) card : Panasonic 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB** model "SDHC card, ** SDXC card (except miniSD card and microSD card) JPEG image, AUX control (by access level) IPad, IPhone, IPod touch (IDS 4.2.1 or later), Android™ mobile terminals
Alarm	Alarm Source	3 terminals input, VMD, Command alarm, Audio detection alarm
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, FTP image transfer, Panasonic protocol output
	Alarm Log	With SDXC/SDHC/SD memory card : Up to 50,000 logs for each SD memory card
	Schedule	Alarm / VMD / Access permission / H.264 recording / Scene file
Input/ Output	Monitor Output (for adjustment)	VBS : 1.0 V [p-p]/75 $\Omega,$ NTSC / PAL composite, ø3.5mm mini jack MONITOR OUT conversion plug included
	Microphone/Line Input	MIC IN and Line IN are selectable. a5 mm monaural mini jack (monaural input) (Applicable microphone: Plug-in power type) Supply voltage : 2.5 ¥ u.5.5 ¥ 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 Power Consumption	When IR LED is ON PoE (IEEE802.3af compliant) Device : DC48 V / 200 mA / Approx. 9.6 W* (Class 0 device) DC power supply : DC12 V / 600 mA / Approx. 7.2 W * ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY.
	Ambient Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)
	Ambient Operating Humidity	10 to 90 % (no condensation)
	Dimensions	ø129.5 mm x 101 mm (H) {ø5-3/32 inches x 3-31/32 inches (H)} Dome radius 40 mm {1-9/16 inches}
	Mass (approx.)	0.45 kg(1.00 lbs)
	Finish	Main body : ABS resin, sail white Dome section : Clear acrylic resin

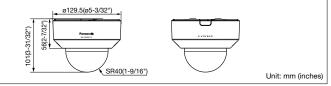
1 Converted value \*2 Super Dynamic function is automatically set off on 60 fps mode.
 \*3 Refer to "Notes on Windows Vista® / Windows® 7 / Windows® 8 / Windows® 8.1 / Windows® 10" on the provided CD-ROM for further information about system requirements for a PC and precautions when

using Microsoft® Windows® 10, Microsoft® Windows® 8.1 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®. \*4 Transmission for 4 streams can be individually set. \*5 AAC-LC (Advanced Audio Coding - Low Complexity) is only used when recording audio on an SD memory card.

### Part Names and Functions



#### Appearance



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Important – Safety Precaution: Carefully read the Important Information, Installation Guide and operating

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.

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