

Super Dynamic Full HD Weatherproof Network Camera WV-SPW631L

Super Dynamic Full HD Weatherproof Long Focus Type Network Camera

WV-SPW631LT



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

Full HD / 1,920 x 1,080 60 fps H.264 Weatherproof Network Camera featuring Super Dynamic

Key Features

- 1080p Full HD / 720p HD images up to 60 fps^{*1}
- Approximate 1/2.8 inches, high sensitivity MOS image sensor
- Super high resolution at Full HD / 1,920 x 1,080 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.
- Maximum Screen Size is 2,048 x 1,536* @30 fps, H.264
 * Used by super resolution techniques
- Enhanced Super Dynamic^{*1} 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 : WV-SPW631L : 0.04 lx (Color), 0.01 lx (B/W) at F1.3 WV-SPW631LT : 0.06 lx (Color), 0.02 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 provides clear images of human faces without white blur.
- 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.

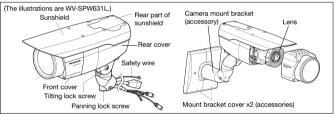
Specifications

Camera	Image S	sensor	Approx. 1/2.8 type MOS image sensor, Built-in primary color filter
Camera		ng Mode	Progressive scan
	Scannir		5.346 mm (H) x 3.336 mm (V) {7/32 inches (H) x 1/8 inches (V)}
			W-SPW631L Color : 0.04 kr, BW : 0.01 kr (F1.3, Maximum shutter : Max. 1/30s, Gain : On(High)
	Minimum Illumination		 W-S-Most Color 1004 (K1, K), EM Color (K1, K), Maximum shutter: Max. Hode, Gain: Collingii) BW: Ok (F1.3, Maximum shutter: CM(100), Gain: High, Ment the R LED is (I) Color: 0.003 k, BW: 0.0007 k (F1.3, Maximum shutter: Max. 16/305, Gain: CM(High)) W-SPW631L Color: 0.06 k, BW: 0.022 k (F1.6, Maximum shutter: Max. 17036, Gain: CM(High)) BW: Ok (F1.6, Maximum shutter: CM(100), Gain: High, Ment the R LED is (I) BW: Ok (F1.6, Maximum shutter: CM(100), Gain: High, Ment the R LED is (I)
	IR LED Light		Color: 0.004 k, BW: 0.002 k (F1.6, Maximum shutter: Max. 16/30s, Gain: On(High)) Off / Auto (High / Mid / Low)
	IR LED irradiation distance		Approx. 30 m {98.43 feet}
	White Balance Light Control Mode Shutter Speed		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K) Outdoor scene / Indoor scene (50 Hz) / Indoor scene (60 Hz) / Fix shutter [2 mega pixel [16 : 9] (60 fps mode) / 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, 1/1000 Other than [2 mega pixel [16 : 9](60 fps mode) / 1.3 mega pixel [16 : 9](60 fps mode)]
	Super Dynamic *2		OFF(1/30), 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250,1/500, 1/1000, 1/2000, 1/4000, 1/10000 On (High) / On (Normal) / Off
	Face Super Dynamic		On / Off (only when Super Dynamic : On)
	Adaptive Black Stretch Fog compensation		On / Off (only when Super Dynamic : Off) On / Off (only when Super Dynamic / Adaptive black stretch : Off)
	High light compensation (HLC)		On / Off (only when Super Dynamic / Adaptive black stretch : Off) 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, max. 1/30 s, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30
	Day/Night (ICR)		On / Off / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
	Dynamic Range		133 dB typ. (Super Dynamic : On)
	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)
	Focus Adjustment		ABF / MANUAL (Html only)
	Lens Distortion Compensation		256 steps
Lens	Vari Focal Length		WV-SPW631L : 2.8 mm - 10 mm {1/8 inches - 13/32 inches}, 3.6x WV-SPW631LT 9 mm - 22 mm {23/64 inches - 55/64 inches}, 2.4x
	Angular Field of View		WV-SPW631L [16 : 9 mode] Horizontal : 30.9 ° (TELE) - 105.4 °(WIDE) Vertical : 17.4 ° (TELE) - 57.3 ° (WIDE)
			[4 : 3 mode] Horizontal : 25.8 °(TELE) - 66.4 ° (MDE) Vertical : 19.3 °(TELE) - 63.9 ° (WIDE) WV-SPW631LT [16 : 9 mode] Horizontal : 13.8 °(TELE) - 33.5 ° (WIDE) Vertical : 7.7 ° (TELE) - 18.1 ° (WIDE)
			[4 : 3 mode] Horizontal : 11.5 ° (TELE) - 27.4 ° (WIDE Vertical : 8.6 ° (TELE) - 20.1 ° (WIDE WV-SPW631L 1 : 1.3 (WIDE) - 1 : 3.0 (TELE)
	IVIANITIC		WV-SPW631LT 1:1.6 (WIDE) - 1:3.0 (TELE)
Adjusting	Focusing Range		WV-SPW631L : 0.3 m - ∞ / WV-SPW631LT : 1.0 m - ∞ Horizontal : ±100° (Camera mount bracket)
	g Aligie		Vertical : +30°, -90° (Camera mount bracket)
Browser	Cropping		Off/ JPEG(1)/ JPEG(2)/ JPEG(3)/ H.264(1)/ H.264(2)/ H.264(3)/ H.264(4)/ H.264(all)
GUI			Alarm action On / Off
	Camera Control Display Mode		Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad
	Digital Zoom		screens or 16 split screen (JPEG only). 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI
	Camera Title		Up to 20 alphanumeric characters
	Clock Display		Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual)
	Alarm Control		Reset
	One Shot Capture Audio		A still picture will be displayed on a newly opened window. 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		
		etup Menu Language	I Endlish, Italian, French, German, Spanish, Portuduese, Russian, Chinese, Japanese
	System		Up to 100 (Internal)
	System		Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error log
	System Suppor	ted OS *3	Up to 100 (Internal) Up to 4,000 (SDX/SDHC/SD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8 Microsoft® Windows® 7, Microsoft® Windows Vista®
	System Suppor	Log	Up to 100 (Internal) Up to 4.000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8 Microsoft® Windows® 1, Microsoft® Windows % Ista® Windows® Internet Explore® 11 (32 bit), Windows® Internet Explore® 10 (32 bit), Windows® Internet Explore® 9 (32 bit), Windows® Internet Explore® 8 (32 bit),
	System Suppor	ted OS *3	Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8 Microsoft® Windows® 10, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safarr, Google Chrome*, Mozilla Firefox*
Naturest	System Suppor Suppor	ted OS *3 ted Browser	Up to 100 (Internal) Up to 4,000 (SDX/SDHC/SD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8,1, Microsoft® Windows® 8 Microsoft® Windows® 17, Microsoft® Windows® 18 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* * with limitations in the part of setting screen
Network	System Suppor Suppor	ted OS *3 ted Browser k IF	Up to 100 (Internal) Up to 4.000 (SDXC/SD/CSD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8 Microsoft® Windows® 1, Microsoft® Windows Vista® 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* with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector
Network	System Suppor Suppor	ted OS *3 ted Browser	Up to 100 (Internal) Up to 4.000 (SDXC/SD/C/SD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 6 Microsoft® Windows® 1, Microsoft® Windows Vista® 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* * with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector *2 mega pixel [16: 9] (30/60 fps) 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 *2 mega pixel [4: 3] (30 fps)
Network	System Suppor Suppor	Log ted OS ^{*3} ted Browser k IF Resolution	Up to 100 (Internal) Up to 4.000 (SDXC/SD/C/SD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8 Microsoft® Windows® 1, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8.12 bit), Windows® Internet Explorer® 7 (32 bit), Safari*, Google Chrome*, Mozilla Firefox* * with limitations in the part of setting screen 10 Base-T / 100 Base-TX, RU45 connector *2 mega pixel [16: 9] (30/60 fps) 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 *3 mega pixel [4: 3] (30 fps) 1,800 × 1,200 / 1280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 122 *3 mega pixel [4: 3] (30 fps) *1,080 × 1,200 / 1,280 × 600 / 600 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 122 *3 mega pixel [4: 3] (30 fps) *1,080 × 1,200 / 1,280 × 600 / 600 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 122 *3 mega pixel [4: 3] (30 fps) *1,080 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 122 *3 mega pixel [4: 3] (30 fps) *1,080 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 122 *3 mega pixel [4: 3] (30 fps) *1,080 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 122 *3 mega pixel [4: 3] (30 fps) *1,080 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 122 *3 mega pixel [4: 3] (30 fps) *1,080 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 122 *3 mega pixel [4: 3] (30 fps) *1,080 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 122 *3 mega pixel [4: 3] (30 fps) *1,080 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 122 *3 mega pixel [4: 3] (30 fps) *1,080 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 122 *3 mega pixel [4: 3] (30 fps) *1,080 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 122 *3 mega pixel [4: 3] (30 fps) *1,080 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 122 *1,080
Network	System Suppor Suppor	Log ted OS ^{*3} ted Browser k IF Resolution Transmission Mode Frame Rate	Up to 100 (Internal) Up to 4000 (SDXC/SD/CSD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 6 Microsoft® Windows® 10, Microsoft® Windows® Internet Explore® 10 (32 bit), Windows® Internet Explore® 9 (32 bit), Windows® Internet Explore® 8 (32 bit), Windows® Internet Explore® 9 (32 bit), Windows® Internet Explore® 8 (32 bit), Windows® Internet Explore® 7 (32 bit), Safari*, Google Chrome*, Mozilla Firefox* *with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector *2 mega pixel [16: 9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 *2 mega pixel [4: 3] (30 fps) 1,900 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 122 Constant bit rate / Variable bit rate / Framerate priority/ Best effort / Advanced VBF 1 / 3 / 5 / 7 5 / 10 / 12 / 15 / 20 / 33 / 60 fps
Network	System Suppor Suppor	Log ted OS ^{'3} ted Browser k IF Resolution	Up to 100 (Internal) Up to 400 (BXC/S)D(CSD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8 Microsoft® Windows® 1, Microsoft® Windows® 18, Microsoft® Windows® 8 Microsoft® Windows® 1, 132 bit), Windows® Internet Explore® 10 (32 bit), Windows® Internet Explore® 9 (32 bit), Windows® Internet Explore® 8 (25 bit), Windows® Internet Explore® 7 (32 bit), Safari*, Google Chrome*, Mozilla Firefox* * with limitations in the part of setting screen 10 Base-T / 100 Base-T X, BL45 connector *2 mega pixel [16: 9] (30/60 fps) 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 *3 mega pixel [4: 3] (30 fps) 1,800 × 1,200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 *3 mega pixel [4: 3] (30 fps) 1,353 * 1,280 × 160 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 Constant bit rate / Vanable bit rate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps
Network	System Suppor Suppor	Log ted OS ^{*3} ted Browser k IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality	Up to 100 (Internal) Up to 4000 (SDXC/SD/CSD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8 Microsoft® Windows® 10, Microsoft® Windows® 114 Microsoft® Windows® 8 Microsoft® Windows® 1, Microsoft® Windows® 114 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* *with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector *2 mega pixel [16: 3] (30 fops) 1,800 × 1,200 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 *2 mega pixel [4: 3] (30 fps) 1,600 × 1,200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBF 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fop fop 64 / 128 / 256 / 384 / 1512 / 768 / 10,244 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 14,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720 / 40960* kbps Image quality (Constant bit rate / Kate 4 effort) :
Network	System Suppor Suppor	Log ted OS ^{'3} ted Browser k IF Resolution Transmission Mode Frame Rate Bit Rate/Client	Up to 100 (Internal) Up to 400 (SDXC/SDIC/SD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8 Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 2 (32 bit), Safar [*] , Google Chrome® Nozilla Firefox* *with limitations in the part of setting screen 10Base=T / 100Base=TX, RJ45 connector *2 mega pixel [16:9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 *2 mega pixel [4:3] (30 fps) 1,600 x 1,200 / 1,280 x 900 / 800 × 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [4:3] (30 fps) 2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [4:3] (30 fps) 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 / 16,384 / 20,480 / 24,576 / 30720 / 4096* kbps
Network	System Suppor Suppor	Log ted OS ^{*3} ted Browser k IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality (Consant bit rate/Best effort) Smart Coding mode Refresh interval	Up to 100 (Internal) Up to 400 (SDXC/SD/CSD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8 Microsoft® Windows® 10, Microsoft® Windows® 11ternet Explore® 10 (32 bit), Windows® Internet Explore® 9 (32 bit), Windows® Internet Explore® 10 (32 bit), Windows® Internet Explore® 9 (32 bit), Windows® Internet Explore® 8 (32 bit), Windows® Internet Explore® 9 (32 bit), Windows® Internet Explore® 8 (32 bit), Windows® Internet Explore® 7 (32 bit), Safari', Google Chrome*, Mozilla Firefox* *with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector -2 mega pixel [16: 9] (30/60 fps) 1,900 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 -3 mega pixel [4: 3] (30 fps) 1,600 × 1,200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 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 / 1512 / 768 / 10,284 / 10,364 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720 / 40960* kbps Image quality (Constant bit rate / Best effort] : 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
Network	System Suppor Suppor	Log ted OS ^{'3} ted Browser k IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality (Constant tirateBest effort) Smart Coding mode	Up to 100 (Internal) Up to 400 (SDXC/SDIC/SD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8 Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 2 (32 bit), Safar*, Google Chrome* Nozilla Firefox* 10Base=T / 100Base=TX, RJ45 connector *2 mega pixel [16:9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 2 mega pixel [4:3] (30 fps) 1,600 x 1,200 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 *3 mega pixel [4:3] (30 fps) 2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [4:3] (30 fps) 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 / 12,281 / 16,384 / 20,480 / 24,56* / 30720* / 40960* kbps Image quality (Constant bit rate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 26 / 1,280 x 72 / 16,384 / 20,480 / 24,56* / 30720* / 40960* kbps Image quality (Constant bit rate / Framerate priority / Best effort / Set offort / Model / 1288 / 56 / 3072 / 10960* kbps Image quality (Constant bit rate / Framerate priority / Dect of / 10060* kbps Image quality (Constant bit rate / Framerate priority / Dect offort / Advanced VBR 1 / 3 / / 5 / 10 / 12 / 15 / 20 / 30 / 60 fps 1 / 3 / 5 / 10 / 12 / 10 / 12 / 16 / 10 / 10 / 10 / 10 / 10 / 10 / 10
Network	System Suppor Suppor Networl Image F H.264 *4	Log ted OS '3 ted Browser k IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality (Constant bit rate/Best effort) Smart Coding mode Refresh interval Transmission Type	Up to 100 (Internal) Up to 400 (SDXC/SD/CSD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 6 Microsoft® Windows® 1, Microsoft® Windows® 18.1, Microsoft® Windows® 6 Microsoft® Windows® 1, Microsoft® 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* *with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector *2 mega pixel [16: 9] (30/60 fps) 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 *2 mega pixel [4: 3] (30 fps) 1,600 × 1,200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 122 Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBE 1/3 / 5 / 7,5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 1512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 1,2288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720 / 40960' 6,tbs Image quality (Constant bit rate / Kest effort) : 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	System Suppor Suppor Networ Image F	Log ted OS '3 ted Browser k IF Resolution 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	Up to 100 (Internal) Up to 400 (SDXC/SD/CSD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 15,1, Microsoft® Windows® B Microsoft® Windows® 1, Microsoft® Windows Vista® Windows® Internet Explore® 11 (32 bit), Windows® Internet Explore® 10 (32 bit), Windows® Internet Explore® 9 (32 bit), Windows® Internet Explore® 10 (32 bit), Windows® Internet Explore® 7 (32 bit), Safari*, Google Chrome*, Mozilla Firefox* * with limitations in the part of setting screen 10 Base-T / 100 Base-TX, RU45 connector * 2 mega pixel [16: 9] (30/60 fps) 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 * 3 mega pixel [4: 3] (30 fps) 1,800 × 1,200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 * 3 mega pixel [4: 3] (30 fps) 1,600 × 1,200 / 1,280 × 600 / 600 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 * 3 mega pixel [4: 3] (30 fps) 1,600 × 1,200 / 1,280 × 860 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 * 3 mega pixel [4: 3] (30 fps) 1,3 / 5 / 7.5 / 1,280 × 860 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 * 3 mega pixel [4: 3] (30 fps) 1,3 / 5 / 7.5 / 1,280 × 880 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 Constant bit rate / Vaniable bit rate / Framerate priority / Best effort / Advanced VBF 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps Image quality (Constant bit rate / Best effort) : 5 without 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 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images,) (JPEG frame rate will be restricted when displaying both JPEG and H.264 images,)
Network	System Suppor Suppor Image F H.264 '4	Log ted OS *3 ted Browser k IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality (Constart bit rateBest effort) Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type	Up to 100 (Internal) Up to 4000 (SDXC/SD/CSD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 6 Microsoft® Windows® 10, Microsoft® Windows® 114 Microsoft® Windows® 6 Microsoft® Windows® 110 (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* * with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector *2 mega pixel [16: 9] (30/60 fps) 1,800 × 1,200 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 *2 mega pixel [4: 3] (30 fps) 1,800 × 1,200 / 1,280 × 860 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 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 / 556 / 384 / 512 / 786 / 10,244 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720' 4,0960' 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720' 4,0960' 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720' 4,0960' 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720' 4,0960' 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720' 4,0960' 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720' 4,0960' 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720' 4,0960' 6,144 / 8,192 / 0,25 / 0,33 / 0,5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast 10 steps 0,1 fps - 30 fps 0,1 fps - 30 fps 0,1 fps + 30 fps
Network	System Suppor Suppor Image F H.264 '4	Log ted OS '3 ted Srowser k IF Resolution 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 Adde	Up to 100 (Internal) Up to 400 (SDXC/SD/CSD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8 Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari*, Google Chrome*, Mozilla Firefox* * with limitations in the part of setting screen 10 Base-T / 100 Base-TX, RU45 connector * 2 mega pixel [16: 9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 * 2 mega pixel [16: 9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 * 2 mega pixel [4: 3] (30 fps) 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * 3 mega pixel [4: 3] (30 fps) 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * 3 mega pixel [4: 3] (30 fps) 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * 3 mega pixel [4: 3] (30 fps) 1,3 / 5 / 7.5 / 1.28 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 Constant bit rate / Vaniable bit rate / Framerate priority / Best effort / Advanced VBF 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps Image quality (Constant bit rate / Best effort) : bow(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 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 Off // Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
Network	System Suppor Suppor Image F H.264 '4 JPEG Audio D Audio N Authent	Log ted OS *3 ted Browser k IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality (Constant bit nateBast effort) Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Adde Lication for Audio	Up to 100 (Internal) Up to 4000 (SDXC/SD/CSD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 6 Microsoft® Windows® 10, Microsoft® Windows® 114 Microsoft® Windows® 6 Microsoft® Windows® 110 (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* * with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector • 2 mega pixel [16: 9] (30/60 fps) 1,800 × 1,200 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 • 2 mega pixel [16: 9] (30/60 fps) 1,800 × 1,200 / 1,280 × 860 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 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 / 556 / 384 / 512 / 786 / 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 / 30720' 4,0960' 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720' 4,0960' 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720' 4,0960' 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720' 4,0960' 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720' 4,0960' 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720' 4,0960' 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720' 4,0960' 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720' 4,0960' 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720' 4,0960' 6,144 / 8,192 / 10,240 / 11,273 / 4 / 5s Unicast / Multicast 10 steps 0,1 fps - 30 fps 0,1 fps - 30 fps 0,1 fps - 30 fps 0,1 fps / 6,400 coutput / Interactive (Half duplex) / Interactive (Full duplex) 1 Evel 1 onty / Level 2 higher / 14 users
Network	System Suppor Suppor Image F H.264 '4 JPEG Audio L Aution I Autheni	Log ted OS *3 ted Browser k IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality (Constant bit nateBast effort) Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Adde Lication for Audio	Up to 100 (Internal) Up to 400 (SDXC/SD/C/SD memory when the recording format is set to JPEG.) erro log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 6 Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari*, Google Chrome*, Mozilla Firefox* * with limitations in the part of setting screen 10 Base-T / 100 Base-TX, Ru45 connector * 2 mega pixel [16: 9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 * 2 mega pixel [16: 9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 120 * 3 mega pixel [4: 3] (30 fps) 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * 3 mega pixel [4: 3] (30 fps) 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * 3 mega pixel [4: 3] (30 fps) 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * 3 mega pixel [4: 3] (30 fps) 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * 3 mega pixel [4: 3] (30 fps) 1,600 x 1,200 / 12,88 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * 3 mega pixel [4: 3] (30 fps) 1,800 x 1,200 / 12,88 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * 3 mega pixel [4: 3] (30 fps) 1,920 x 1,080 / 12 / 15 / 100 / 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 / 00 / 100 / 100 / 160 x 120 Constant bit rate / Vaniable bit rate / Baset affort / 1,400 x 100 roirtit) / 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 H.264 images). Pul / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-

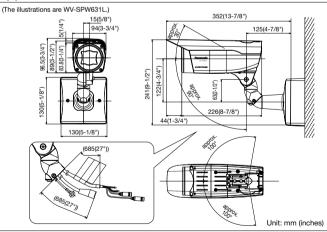
Network	FTP Client	Alarm image transmission, FTP periodic transmission (When the FTP transmission
Network	FTF Client	is failed, backup on an optional SDXC/SDHC/SD memory card is available.)
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD	H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure Compatible(JPEG only)
	Memory Card (Option)	
	* Manufactured by Panasonic	
	(SD speed class 4 or higher)	JPEG recording :
	* Use the SD memory card that complies with UHS-1 (Ultra High Speed-1) in the case of SD Speed Class 10.	Manual REC / Alarm 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)
	Employment of two CD courts	
	Employment of two SD cards	Dual Recording for Redundancy, Series Recording for long time
	Cellular Phone Compatibility	JPEG image, AUX control (by access level) iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android [™] mobile termina
Alarm	Mobile Terminal Compatibility	
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/	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 \pm 0.5 V, Input impedance : Approx. 2 k Ω (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	When IR LED is On
	Power Consumption	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
		* 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.)	1.4kg {3.09 lbs.}
	Finish	Main body : Aluminum die cast, light gray / Front cover section clear part : Clear polycarbonate resin

Innish Man bog: 2 Auminum de cast, ligit gay / hort cover section cast part: User polycationate 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® 6.1 / 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® 10 or Microsoft® Windows® 8.1
 ** 4 Transmission for 4 streams can be individually set.

Part Names and Functions



Appearance



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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.

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