# Panasonic BUSINESS

## Super Dynamic Full HD Dome Network Camera WV-SFN531



\*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 Network Camera featuring Super Dynamic

#### Key Features

- 1080p Full HD images up to 60 fps\*1
- Approximate 1/3 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<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:
   0.07 lx (Color), 0.02 lx (B/W) at F1.6
   \*ICR: IR Cut filter Removal
- ABF (Auto Back Focus) ensures easy installation.
- VIQS (Variable Image Quality on Specified area) technology allows thedesignated 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.
- 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.
- 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.
- SDXC/SDHC/SD Memory card slot 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.(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.
- SCC (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
- Supports SSL, DDNS (viewnetcam, RFC2136)
- \*1 Super Dynamic function is automatically set off on 60 fps mode

#### **Optional Accessories**

Ceiling Mount Bracket
WV-Q105A



Ceiling Mount Bracket
WV-Q174B



Smoke Dome Cover WV-CF5SA



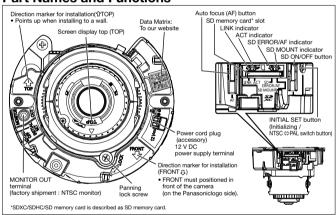
### Specifications

	ifica		A 1/0 b NOC :
Camera	Image Sensor Scanning Mode		Approx. 1/3 type MOS image sensor
			Progressive scan 5.28 mm (H) × 3.30 mm (V) {7/32 inches(H) x 1/8 inches(V) }
	Scanning Area Minimum Illumination		Color: 0.07 lx, BW: 0.01 lx (F1.6, Maximum shutter: Max. 1/30s, Gain: On(High))
			Color: 0.005 lx, BW: 0.0007 lx (F1.6, Maximum shutter: Max. 16/30s, Gain: On(High)) *1
	White E		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)
	Light C	ontrol Mode	Outdoor scene: Automatic integration of ALC and ELC Indoor scene [50 Hz]: Automatic integration of ALC and ELC with flickerless
			Indoor scene [60 Hz]: Automatic integration of ALC and ELC with flickerless
	Shutter Speed		[2 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 [2 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,
			1/2000, 1/4000, 1/10000 On (High) / On (Normal) / Off
	Super Dynamic*2 Face Super 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)
	AGC		On (Low) / On (Mid) / On (High) / Off
	Electro	nic Sensitivity UP	max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/120 s, max. 1/100 s,
	Day/Night (ICR)		max. 1/60 s, max. 1/30 s, max. 2/120 s, max. 2/100 s, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s
			Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
	Dynamic Range		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		Up to 8 zones
	VIQS Camera Title (OSD)		Up to 8 zones Up to 20 characters (alphanumeric characters, marks)
	Focus Adjustment		ABF / MANUAL (Html only)
	Lens Distortion Compensation		256 steps
_ens		cal Length	2.8 - 9.5 mm {1/8 inches - 13/32 inches}
	Angular	Field of View	[16 : 9 mode] Horizontal : 32° (TELE) - 110° (WIDE)
			Vertical : 18° (TELE) - 60° (WIDE) [4 : 3 mode] Horizontal : 27° (TELE) - 91° (WIDE)
			[4 : 3 mode] Horizontal : 27° (TELE) - 91° (WIDE) Vertical : 20° (TELE) - 66° (WIDE)
	Maximu	ım Aperture Ratio	1 : 1.6 (WIDE) - 1 : 3.3 (TELE)
	Focusing Range		0.3 m - ∞
Adjusting Angle			Horizontal: +120°(right) to -240°(left), Vertical: ±85°,
			Image tilt adjustment range: -100°(Left) to +100°(Right)
Browser	Croppir	ng	H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(3)
GUI	Camera	Control	Up to 4 image capture areas can be specified  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 Zoom		1x, 2x, 4x controlled by browser GUI
	Camera Title		Up to 20 alphanumeric characters
	Clock E		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual) Reset
	Alarm Control One Shot Capture		A still picture will be displayed on a newly opened window.
	Audio	ot Capture	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
	Addio		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
		etup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
	System	Log	Up to 100 (Internal)
	Supported OS *3		Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 10, Microsoft® Windows® 8.1,
	Suppoi	ted OS *3	
	Зиррог	ted OS*3	Microsoft® Windows® 8, Microsoft® Windows® 7,
		ted OS *3 ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®
			Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 10 (32-bit)
			Microsoft® Windows® 8, Microsoft® Windows® 7, 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*
	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows Vista® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 16 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), Safari*, Google Chrome*, Mozilla Firefox* with limitations in the part of setting screen
Network	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows Vista® Windows Vista® Windows Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 16 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), Safari', Google Chrome', Mozilla Firefox' with Ilmitations in the part of setting screen 10Base-T/100Base-TX, RJ45 connector
Network	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows Vista® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 16 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), Safari*, Google Chrome*, Mozilla Firefox* with limitations in the part of setting screen
Network	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, 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 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
Network	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, 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)
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Network	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, 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] (30/80 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)
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Network	Suppor	ted Browser k IF Resolution	Microsoft® Windows® 8, Microsoft® Windows® 7, 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 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) 2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120  "320 x 240 / 160 x 120 "Used by super resolution techniques
Network	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, 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 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) 2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120  "320 x 240 / 160 x 120 "Used by super resolution techniques
Network	Suppor	ted Browser  k IF  Resolution  Transmission Mode	Microsoft® Windows® 8, Microsoft® Windows® 7, 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 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) 2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120  "Used by super resolution techniques Constant bit rate / VBR / Framerate priority / Best effort / Advanced VBR 1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/384/512/768/1,2044/1,536/2,048/3,072/4,096 /
Network	Suppor Networ Image I	ted Browser  k IF Resolution  Transmission Mode Frame Rate Bit Rate/Client	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows Vista® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 8 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 7 (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 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) 2,048 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120  "Used by super resolution techniques Constant bir tate / VBBA / 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 / 20,488 / 24,576 kpbs
Vetwork	Suppor Networ Image I	ted Browser  k IF Resolution  Transmission Mode Frame Rate Bit Rate/Client Image Quality	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows Vista® Windows Vista® Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 7 (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 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) 2,048 x 1,536' / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120  "Used by super resolution techniques Constant bit rate / VBR / Framerate priority / Best effort / Advanced VBR 173 / 57 / 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
Network	Suppor Networ Image I	ted Browser  k IF Resolution  Transmission Mode Frame Rate Bit Rate/Client  Image Quality Smart Coding mode	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® 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  *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) 2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120  "Used by super resolution techniques Constant bit rate / VBR / 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)
<b>letwork</b>	Suppor Networ Image I	ted Browser  k IF Resolution  Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 18 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 7 (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 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) 2,048 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120  "Used by super resolution techniques Constant bit rate / VBAF / 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
Network	Suppor Networ Image I	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows Vista® Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 78 (32-bit), Safari*, Google Chrome*, Mozilla Firefox* with limitations in the part of setting screen 10Base-T / 100Base-T X, RJ45 connector •2 mega pixel [16 : 9] (30/80 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) 1,920 x 1,080 / 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) 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) 60 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [4 : 3] (30 fps) 60 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [4 : 3] (30 fps) 60 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [4 : 3] (30 fps) 60 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [4 : 3] (30 fps) 60 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [4 : 3] (30 fps) 60 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [4 : 3] (30 fps) 60 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [4 : 3] (30 fps) 60 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [4 : 3] (30 fps) 60 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [4 : 3] (30 fps) 60 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [4 : 3] (30 fps) 60 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [4 : 3] (30 fps) 60 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [4 : 3] (30 fps) 60 / 800 x
Network	Suppor	ted Browser  k IF Resolution  Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 18 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 7 (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 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) 2,048 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120  "Used by super resolution techniques Constant bit rate / VBAF / 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
Network	Suppor Networ Image I	ted Browser  k IF Resolution  Transmission Mode Frame Rate Bit Rate/Client  Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows Vista® Windows Vista® Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 7 (32-bit), Safari*, Google Chrome*, Mozilla Firefox* with limitations in the part of setting screen 10Base-T / 100Base-T X, 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 960 / 800 x 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   "Used by super resolution techniques   Constant bit rate / VBR / 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   (WPEG frame rate will be restricted when displaying both JPEG and H.264 images)
Network	Support Networ Image I	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (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   22 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   22 mega pixel [16:9] (30/60 fps)   1,900 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120   33 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   "Used by super resolution techniques   Constant bit rate / VBR / 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.)   PUII / PUSh
Network	Suppor  Networ  Image I  H.264  '4  JPEG  Audio C	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Transmission Type	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® 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  •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) 2,048 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120  "Used by super resolution techniques Constant bit rate / VBR / 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.) Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC
Network	Support Networ Image I	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Transmission Type	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® 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), Windows® Internet Explorer® 8 (32-bit) Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 8 (32-bit) Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 8 (32-bit) Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 8 (32-bit) Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 8 (32-bit) Windows® Internet Explorer® 7 (30-bit), Windows® Internet Explorer® 8 (32-bit) Windows® Internet Fig. 9 (30/60 fps) 1,000 x 1,200 / 1,280 x 960 / 800 x 600 / 320 x 180 / 160 x 90  *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) 2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120  "Used by super resolution techniques Constant bit rate / VBR / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 788 / 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 (UPEG frame rate will be restricted when displaying both JPEG and H.264 images) Pull / Push 6.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC Off / Mic (Line) input / Audio output / Interactive (Half duplex) /
Network	Networ Image I H.264 '4 JPEG Audio C Audio N	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Mode	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 7 (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 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90  *2 mega pixel [4: 3] (30 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) 2,048 x 1,536 * / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120  "Used by super resolution techniques  Constant bit rate / VBB / 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 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 / 5s  Unicast / Multicast  Unicast / Multicast  0,1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.) Pulli / Push G.726 (ADPCM) 32 ktpps / 16 ktpps, G.711 64 ktpps / AAC-LC  Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) / Inter
Network	Networ Image I H.264 '4 JPEG Audio 0 Autheni	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Transmission	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® 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  *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) 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) 2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120  "Used by super resolution techniques Constant bit rate / VBR / 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 / 1,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,244 / 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 6.726 (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 I H.264 4 JPEG Audio 6 Authen Total B	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Transmission Type Compression Transmission Type	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® 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), Windows® Internet Explorer® 8 (32-bit) Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 8 (32-bit) Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 8 (32-bit) Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 8 (32-bit) Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 8 (32-bit) Windows® Internet Explorer® 7 (30-bit), Windows® Internet Explorer® 8 (32-bit) Windows® Internet Explorer® 7 (30-bit), Windows® 100-bit 9 (30-bi
Network	Networ Image I H.264 4 JPEG Audio 6 Authen Total B	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Transmission	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® 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  *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) 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) 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) 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) 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) 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) 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) 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) 1,200 x 1,20
Network	Networ Image I H.264 4 JPEG Audio 6 Authen Total B	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Transmission Type Compression Transmission Type	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® 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 10Base-T / 100Base-TX, RJ45 connector
Network	Networ Image I H.264 '4  JPEG Audio C Audio h Authen Total B Suppor	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Rode Lication for Audio t Rate ted Protocol	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 8 (32-bit) Windows® Internet Explorer® 7 (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 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) 2,048 x 1,336 / 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) 2,048 x 1,336 / 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) 2,048 x 1,336 / 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) 2,048 x 1,356 / 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) 2,048 x 1,356 / 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) -1,048 x 1,356 / 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) -1,048 x 1,356 / 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) -1,050 x 1,200 x 1,
Network	Networ Image I H.264 4 JPEG Audio 6 Authen Total B	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Rode Lication for Audio t Rate ted Protocol	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® 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  *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) 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) 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) 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) 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) 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) 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) 1,200 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) 1,200 x 1,200 / 1,200 x 1,200

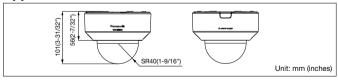
Network	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD	H.264 recording:
	Memory Card (Option)	Manual REC / Alarm REC (Pre/Post) / Schedule REC /
	* Use the SD memory card	Backup upon network failure
	manufactured by Panasonic	JPEG recording :
	(SD speed class 4 or higher),	Manual REC / Alarm REC (Pre/Post) / Backup upon network failure
	and in the case of SD Speed Class 10, that complies with	Compatible SD (SDHC/SDXC) card :
	UHS-1(Ultra High Speed-1).	Panasonic 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB** model
		*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Cellular Phone Compatibility	JPEG image, AUX control (by access level)
	Mobile Terminal Compatibility	iPad, iPhone, iPod touch (iOS 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/	Monitor Output	VBS: 1.0 V [p-p]/75 Ω, NTSC / PAL composite,
Output	(for adjustment)	ø3.5mm mini jack MONITOR OUT conversion plug included
	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	DC power supply: DC12 V / 450 mA / Approx. 5.4 W
	Power Consumption	PoE (IEEE802.3af compliant): DC48 V / 110 mA / Approx. 5.3 W (Class 2 device)
		* 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.)	Approx. 0.49 kg {1.08 lbs}
	Finish	Main body : ABS resin, sail white
		Dome section : Clear acrylic resin
	Others	Tamper-resistant enclosure *5

- \*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 or Microsoft® Windows® 8.1 orMicrosoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.
- \*4 Transmission for 4 streams can be individually set.
- \*5 Component that has a structure on which the screws that are accessible after installation can not be screwed or unscrewed using an ordinary screwdriver.

#### **Part Names and Functions**



#### **Appearance**



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- 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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<sup>\*2</sup> Super Dynamic function is automatically set off on 60 fps mode