

### Super Dynamic Full HD Vandal Resistant & Waterproof Dome Network Camera

## WV-SFV631LT



\*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 Vandal Resistant Network Camera featuring *Super Dynamic*

#### Key Features

- 1080p Full HD / 720p 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: 0.06 lx (Color), 0.015 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.
- New camera attachment bracket allows an **easy camera installation** toward all four directions.
- 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/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.
- 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.
- 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.
- 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.
- 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
- Vandal resistant mechanism for high reliability
- \*1 Super Dynamic function is automatically set off on 60 fps mode.

#### **Specifications**

Camera	Image	Soncor	Approx 1/3 type MOS image senser
			Approx. 1/3 type MOS image sensor Progressive scan
		ng Mode ng Area	Progressive scan 5.28 mm (H) x 3.30 mm (V) {7/32 inches (H) x 1/8 inches (V)}
		m Illumination	Color : 0.06 lx, BW : 0.015 lx
			(F1.6, Maximum shutter : Max. 1/30s, Gain : On(High))
			BW : 0 lx
			(F1.6, Maximum shutter : Off(1/30 s), Gain : High, when the IR LED is lit)
			Color : 0.0045 lx, BW : 0.0011 lx
	IR LED Light IR LED irradiation distance White Balance Light Control Mode		(F1.6, Maximum shutter : Max. 16/30s, Gain : On(High)) *1
			Off / Auto (High / Mid / Low)
			33 m (108.24 feet)
			AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K) 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)/ 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 [2 mega pixel [16 : 9](60 fps mode)/ 1.3 mega pixel [16 : 9](60 fps mode)]
			Off(1/30), 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250,1/500,
			1/1000, 1/2000, 1/4000, 1/10000
		Dynamic *2	On (High) / On (Normal) / Off
		uper Dynamic	On / Off (only when Super Dynamic : On)
		e Black Stretch	On / Off (only when Super Dynamic : Off)
	Fog compensation		On / Off (only when Super Dynamic / Adaptive black stretch : Off)
	AGC Maximum shutter		On (Low) / On (Mid) / On (High) / Off
	waximu	um snutter	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. 1/30 s, max. 1/30 s, max. 2/30 s, max. 4/30 s, max. 0/30 s, max. 10/30 s, max. 16/30 s	
	Day/Nie	aht (ICB)	On / Off / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
	Day/Night (ICR) Dynamic Range		133 dB typ. (Super Dynamic : On, Light Control Mode : indoor)
	Digital Noise Reduction		High / Low
		Notion Detection	On / Off, 4 areas, Sensitivity : 15 steps, Detection size : 10 steps
	Privacy		On / Off (up to 8 zones available)
	VIQS		On / Off (up to 8 zones available)
		a Title (OSD)	On / Off Up to 20 characters (alphanumeric characters, marks)
	Electric		TELE / WIDE , Auto Coarse adjustment of Focus
		Adjustment	ABF / MANUAL (Html only)
1077		stortion Compensation	256 steps
Lens	Vari Focal Length Angular Field of View		9.0 - 22 mm, 2.4x {23/64 inches - 7/8 inches} [16 : 9 mode] Horizontal : 13.8° (TELE) – 33.0° (WIDE)
	Angula	I LEIG OF VIEW	Vertical : 7.7° (TELE) – 17.8° (WIDE)
			[4 : 3 mode] Horizontal : 11.5° (TELE) – 27.0° (WIDE)
			Vertical : 8.6° (TELE) – 19.9° (WIDE)
	Maxim	um Aperture Ratio	1:1.6 (WIDE) - 1:3.0 (TELE) *with Smart DoF (Depth of Field) mode
		ng Range	1 m - ∞
Adjusting	g Angle		Horizontal: ±180°, Vertical: 0-85°,
			Image tilt adjustment range: -45° (Left) to +300° (Right)
Browser	Croppi	ng	H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(3)
GUI			Up to 4 image capture areas can be specified
	Camera Control Display Mode		Brightness, AUX On / Off
			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. 1x, 2x, 4x controlled by browser GUI
	Digital Zoom Clock Display		Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual)
	Alarm Control		Reset
	One Shot Capture		A still picture will be displayed on a newly opened window.
	Audio		Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
	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.
	GUI / Setup Menu Language		English, Italian, French, German, Spanish, Portuguese, Russian,
			Chinese, Japanese
	System	i Log	Up to 100 (Internal)
			Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs
	Suppor	ted OS *3	Microsoft® Windows® 10
	Suppor	led 00 -	Microsoft® Windows® 8.1
			Microsoft® Windows® 8
			Microsoft <sup>®</sup> Windows <sup>®</sup> 7
			Microsoft® Windows Vista®
	Suppor	ted Browser	Windows® Internet Explorer® 11 (32-bit)
			Windows® Internet Explorer® 10 (32-bit)
1			
			Windows® Internet Explorer® 9 (32-bit)
			Windows® Internet Explorer® 9 (32-bit) Windows® Internet Explorer® 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> 7 (32-bit)
			Windows® Internet Explorer® 9 (32-bit) Windows® Internet Explorer® 8 (32-bit) Windows® Internet Explorer® 7 (32-bit) Safari*, Google Chrome*, Mozilla Firefox*
Network	Network	k IF	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			Windows® Internet Explorer® 8 (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
Network		< IF Resolution	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)
Network			Windows® Internet Explorer® 8 (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
Network			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           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			Windows® Internet Explorer® 9 (32-bit)           Windows® Internet Explorer® 8 (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
Network			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           •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)
Network			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-7 / 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 1,586 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 300 / 320 x 300 / 300 x 300 / 500 x 600 / 640 x 480 / 400 x 300 / 320 x 300 / 300 x 300 x 300 / 300 x 30
Network			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 1.908 / 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
Network		Resolution	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           10Base-T / 100Base-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 [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)           2,440 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120           *3 use 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
Network		Resolution	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           10Base-T / 100Base-TX, BL45 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/ Variable bit rate / Framerate priority / Best effort / Advanced VBR
Network		Resolution	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           10Base-T / 100Base-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 [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)           2,440 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120           *3 use 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
Network	Image F	Transmission Mode Frame Rate	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-7 / 100Base-7X, 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 [14 : 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 [14 : 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 / 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 / 61,414 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 kbps
Network	Image F	Transmission Mode Frame Rate Bit Rate/Client Image Quality	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 [16: 3] (30/60 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           * Used by super resolution techniques           * 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
Network	Image F	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode	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           10Base-T / 100Base-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)           1,600 x 1,200 / 1,280 x 720 / 640 x 360 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120           *3 mega pixel [16: 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           *0 Laby super resolution techniques           Constant bit rate / Variable bit rate / Framerate pirotity / 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           6/4 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 kbps           Low / Normal / Fine           On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected)
Network	Image F	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval	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           10Base-T / 100Base-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)           1,600 x 1,200 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90           • 3 mega pixel [16 : 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 / 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 / 10.24 / 1,538 / 2.048 / 3.072 / 4.096 / 61.44 / 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	Image F	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type	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 [16: 3] (30/60 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 / Variable bit rate / Framerate priority / Best effort / Advanced VBR           1/3 / 5 / 7.5 / 10 / 12 / 152 / 0 / 30 / 60 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,538 / 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	H.264	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality	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           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 [16: 3] (30/60 fps)           1,600 x 1,200 / 1,280 x 720 / 640 x 360 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120           *3 mega pixel [16: 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 / Variable bit rate / Framerate pirotity / 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
Network	Image F	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type	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 [14: 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: 2] (28 / 240 / 120 / 30 / 60 fps           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           [3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           [6 4 / 128 / 256 / 384 / 512 / 768 / 1.024 / 1.536 / 2.048 / 3.072 / 4.096 / 6.144 / 8.192 / 10.240 / 12.288 / 14.336 / 16.384 / 20.480 / 24.576 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	H.264	Transmission Mode Frame Bate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval	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 [16: 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 [14: 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 [15: 20 / 30 f0s)           2,048 x 1,536' / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120           *1 Used by super resolution techniques           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 / 4,086 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,344 / 20,480 / 24,576 kbps           Low / Nind / Fligh / 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           0.1 fps - 30 fps           0.1 fps - 30 fps
Network	H.264 *4	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality	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 [14: 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: 2] (28 / 240 / 120 / 30 / 60 fps           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           [3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps           [6 4 / 128 / 256 / 384 / 512 / 768 / 1.024 / 1.536 / 2.048 / 3.072 / 4.096 / 6.144 / 8.192 / 10.240 / 12.288 / 14.336 / 16.384 / 20.480 / 24.576 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	H.264 *4	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression	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           10Base-T / 100Base-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 [13] (30 fps)           1,600 x 1,200 / 1,280 x 960 / 600 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           *0 use 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           *0 use presolution techniques           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 ps           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 fors - 30 fps           (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.)
Network	H.264 *4 JPEG Audio C	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Mode	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           10Base-T / 100Base-TX, RL45 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: 3] (30 fps)           1,600 x 1,200 / 1,280 x 960 / 640 x 360 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120           *3 mega pixel [16: 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           *1 Used by super resolution techniques           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 ps           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'5           Off / Mic (Line) input / VBR / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
Network	H.264 *4 JPEG Audio ( Audio (	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Vode	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 [16: 3] (30 fps)           1,600 x 1,200 / 160 x 120           •3 mega pixel [14: 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 [14: 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 [14: 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           •20 sead by super resolution techniques           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           1/3 / 5 / 7.10 / 12 / 15 / 20 / 30 / 66 fps           Curv / Mid / High) / Off (Only when "Variable bit rate" is selected)
Network	H.264 *4 JPEG Audio C	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Vode	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           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 [16: 9] (30/60 fps)           1,900 x 1,200 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 300 / 320 x 240 / 160 x 120           *3 mega pixel [16: 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           *2 used pixel [16: 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 / 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 / 16,344 / 20,480 / 24,576 kbps           Low / Mid / High) / Off (Only when "Variable bit rate" is selected)           0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s           Unicast / Muticast           10 steps           0.1 fps - 30 fps           Q/IPEG frame rate will be restricted when displaying both JPEG and H.24 images.]
Network	H.264 '4 JPEG Audio 0 Audio 1 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 Aode tication for Audio it Rate	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 [16: 9] (30/60 fps)           1.920 x 1,080 / 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)           2,048 x 1,536' / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120           *120 x 210 / 160 x 120           *0sed by super resolution techniques           Constant bir 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 / 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
Network	H.264 '4 JPEG Audio 0 Audio 1 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 Vode	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 [16: 3] (30 fps)           1,600 x 1,200 / 160 x 120           *3 mega pixel [14: 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 [14: 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 [16: 720 / 30 / 660 fps           Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR           1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 660 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;
Network	H.264 '4 JPEG Audio 0 Audio 1 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 Aode tication for Audio it Rate	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 [16: 9] (30/60 fps)           1.920 x 1,080 / 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)           2,048 x 1,536' / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120           *120 x 210 / 160 x 120           *0sed by super resolution techniques           Constant bir 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 / 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
Network	H.264 '4 JPEG Audio 0 Audio 1 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 Aode tication for Audio it Rate	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           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 [16: 9] (30/60 fps)           1,600 x 1,200 / 1,280 x 720 / 640 x 360 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120           *3 mega pixel [16: 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           *2 used pixel [16: 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           *2 used by super resolution techniques           Constant bit rate / Variable bit rate / Framerate pirotity / 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 / Nordl / High) / Off (Only when "Variable bit rate" is selected)           0.1 (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 / Mutiticast           10 steps           0.1 fps - 30 fps

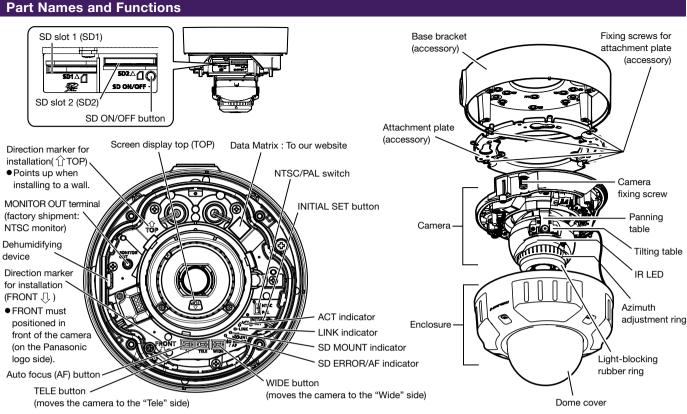
Network	FTP Client	Alarm image transmission, FTP periodic transmission
Network	FTF Client	
		(When the FTP transmission is failed, backup on an optional
		SDXC/SDHC/SD memory card is available.)
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD	H.264 recording :
	Memory Card (Option)	Manual REC / Alarm REC (Pre/Post) / Schedule REC /
	* Manufactured by Panasonic (SD speed class 4 or higher) * Use the SD memory card that complies with UHS-1 (Ultra High Speed-1) in the case of SD Speed Class 10.	Backup upon network failure
		JPEG recording :
		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 SD cards	
		Series Recording for long time
	Cellular Phone Compatibility	JPEG image, AUX control (by access level)
	Mobile Terminal Compatibility*6	iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android <sup>™</sup> 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	Schedule mode	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), ICES-003 ClassA, EN 55032 ClassB, EN55024
	Power Source and	When IR LED is ON
	Power Consumption	DC power supply : DC12 V / 1080 mA / Approx. 12.9 W
		PoE (IEEE802.3af compliant) Device :
		DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device)
		* Maximum power consumption on the camera power input side.
		** ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY.
	Ambient Operating Temperature	-45 °C to +50 °C (-49 °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
	Shock Resistance	Compliant with 50J IEC60068-2-75
	Dimensions	ø164 mm x 139 mm (H) {ø6-15/32 inches x 5-15/32 inches (H)}
	* Installing using the base bracket	Dome radius 42 mm {1-21/32 inches}
	Mass (approx.)	1.6 kg {3.53 lbs.}
	Finish	Main body : Aluminum die cast, light gray
		Dome section : Clear polycarbonate resin
	1	

\*1 Converted value

\*2 Super Dynamic function is automatically set off on 60 fps mode.

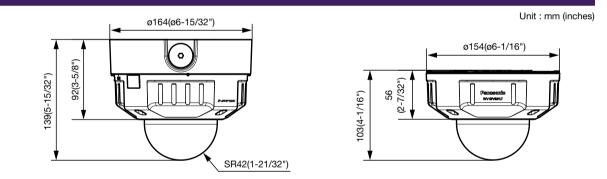
\*3 Refer to "Notes on Windows Vista® / Windows® 7 / Windows® 8 / Windows® 8.1 / Windows® 10° on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 10 or Microsoft® Windows® 8.1 or Microsoft® Windows® 8 or Microsoft® Windows® 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. \*6 For further information about compatible devices, refer to our website (http://security.panasonic.com/support/info/).



\* SDXC/SDHC/SD memory card is described as SD memory card.

#### Appearance



#### **Optional Accessories**



Trademarks and registered trademarks

Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.

- iPad, iPhone and iPod touch are registered trademarks of Apple Inc.

Android is a trademark of Google Inc.

– "i-PRO SmartHD" logo is trademark or registered trademark of Panasonic Corporation.

- ONVIF and the ONVIF logo are trademarks of ONVIF Inc.

- All other trademarks identified herein are the property of their respective owners.

#### Important

Safety Precaution: Carefully read the Important Information, Installation Guide and operating instructions before using this product. - Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

· Specifications are subject to change without notice.

#### DISTRIBUTED BY:



http://security.panasonic.com

http://www.facebook.com/PanasonicNetworkCamera



<sup>·</sup> Masses and dimensions are approximate.