

## 4K Vandal Resistant Dome Network Camera WV-SFV781L



### 4K (3,840 x 2,160) H.264 Vandal Resistant Dome Network Camera

#### Key Features

- 4K (3,840 x 2,160) images up to 30 fps, 12M pixel (4,000 x 3,000) images up to 15 fps
- Newly developed 1/1.7 type high sensitivity MOS image sensor
- Ultrawide x6 zoom lens with the newly developed 3-drive lens system (Horizontal Angle: 100.0°(wide) to 17.0°(tele)) [4:3 mode]
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording.
- Smart DoF (Depth of Field): Automatically optimizes DoF to enhance focus both for near and far objects within camera view.
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- High sensitivity with Day & Night (ICR\*) function:
   0.3 lx (Color), 0.04 lx (B/W) at F1.6
  - \* ICR: IR Cut filter Removal
- Smart IR LED equipped: The equipped infrared LED makes it
  possible to take pictures at zero lx. The IR LED is controlled to
  match the environment, thereby the camera provides clear images
  of human faces without white blur.
- Camera attachment bracket allows an easy camera installation toward all four directions.
- VIQS (Variable Image Quality on Specified area) technology allows the designated eight locations 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.
- Electronic sensitivity enhancement: Auto (Up to 16/30s) / OFF
- Selectable light control modes: Outdoor scene, Indoor scene (50 Hz) / Indoor scene (60 Hz), Fix shutter
- 1x, 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.
- 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.
- 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.
- 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
- · Vandal resistant mechanism for high reliability (IK10)
- Rain wash coating dome cover

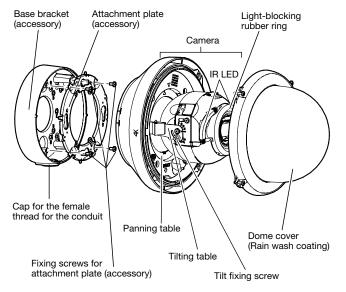
#### **Specifications**

	Image Sensor	1/1.7 type MOS image sensor
	Effective Pixels Scanning Mode	Approx. 12.4 mega pixels
	Scanning Mode Scanning Area	Progressive scan 7.40 mm (H) x 5.55 mm (V) {9/32 inches (H) x 7/32 inches (V)}
	Minimum Illumination	Color: 0.3 lx, BW: 0.04 lx,
		BW(with IR LED): 0 lx (F1.6, Maximum shutter: Off (1/30s), Gain: High)
	IR LED Light	Color: 0.02 lx, BW 0.003 lx (F1.6, Maximum shutter: Max. 16/30s, AGC: High) Off/Auto(High/Mid/Low)
	IR LED irradiation distance	Approx. 30 m {98.43 feet} {at IR LED: Auto (High)}
	White Balance	ATW1 (2,700 - 6,000 K) /ATW2 (2,000 - 6,000 K) /AWC (2,000 - 10,000 K)
	Light Control Mode  Maximum shutter	Outdoor scene/ Indoor scene (50 Hz)/ Indoor scene (60 Hz)/ Fix shutter max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/120 s, max. 1/100 s
		max. 2/120 s, max. 2/100 s, max. 1/30 s, max. 2/30 s, max. 4/30 s,
		max. 6/30 s, max. 10/30 s, max. 16/30 s
	Shutter Speed Wide Dynamic Range	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 / Off On / Off (only when Wide dynamic range: off) On / Off (only when Wide dynamic range/ Adaptive black stretch: Off) On / Off (only when Wide dynamic range/ Back light compensation (BLC): Of On (High) / On(Mid), On(Low) / Off Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC) High / Low On / Off, 4 areas available
	Adaptive Black Stretch	
	Fog compensation	
	High light compensation(HLC)	
	Gain (AGC) Day & Night (ICR)	
	Digital Noise Reduction	
	Video Motion Detection (VMD)	
	Privacy Zone VIQS	On / Off (up to 8 zones available)
	Camera Title (OSD)	On / Off (up to 8 locations) On / Off Up to 20 characters (alphanumeric characters, marks
	Focus Adjustment	AF / Manual (Html only)
Lens	Vari Focal Length	4.2 mm - 25.2 mm {5/32 inches - 1 inch}
	Angular Field of View	[16:9 mode] Horizontal: 17° (TELE) - 96° (WIDE)
		Vertical : 9.3 ° (TELE) - 54 ° (WIDE) [4 : 3 mode] Horizontal : 17° (TELE) - 100 ° (WIDE)
		Vertical : 13 ° (TELE) - 75 ° (WIDE)
	Maximum Aperture Ratio	1 : 1.6 (WIDE) - 1 : 3.3 (TELE)
A -II	Focusing Range	0.6 m - ∞
Adjusting	Angle	Horizontal: ±180 ° Vertical: 0 to 85°
		Image tilt adjustment range: -45° (Left) to +300° (Right)
Browser	Cropping	H.264(1) Ch1- Ch4
GUI		Up to 4 image capture areas can be specified.
	Camera Control	*only when Image capture mode : Cropping [16:9] (30fps mod Brightness, AUX On / Off
	Display Mode	Spot, Quad: Image from 16 cameras can be displayed in
		4 different Quad screens or 16 split screen (JPEG only).
	Digital Zeem	20 characters camera title available.
	Digital Zoom Camera Title	1x, 2x, 4x controlled by browser GUI 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 / Higl
	radio	Audio Output : On / Off Volume adjustment : Low / Middle / High
	SD Memory	Still or motion Images recorded in the SDXC/SDHC/SD
	Data Download	The recorded data can be downloaded.
	GUI/Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russiar Chinese, Japanese
	System Log	Up to 100 (Internal)
		Up to 4,000 (SDXC/SDHC/SD memory) error logs
	Supported OS *2	Microsoft® Windows® 8.1, Microsoft® Windows® 8,
	Supported Browser	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),
Network	Network IF	Windows® Internet Explorer® 7 (32 bit)  10Base-T / 100Base-TX, RJ45 connector
HOUNDIN	Image Resolution	• 8 mega pixel [16:9] (30 fps mode)
		H.264(1): 3,840 x 2,160, up to 30 fps
		JPEG(2): 640 x 360, up to 30 fps
		8 mega pixel [16:9] (15 fps mode)
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		*8 mega pixel [16:9] (15 fps mode)     H.264(1): 3,840 x 2,160, up to 15 fps Compliant with H.264     H.264(2): 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fp     JPEG(1): Enables the setting of the resolution in the same way at for H.264 (1), H.264 (2), or JPEG (2).     JPEG(2): 640 x 360      *12 mega pixel [4:3] (15 fps mode)     H.264(1): 4,000 x 3,000, up to 15 fps     H.264(1): 640 x 480 / 320 x 240, up to 5 fps     JPEG(1): Enables the setting of the resolution in the same way at for H.264 (1), H.264 (2), or JPEG (2).     JPEG(2): 640 x 480      *5 mega pixel [4:3] (30 fps mode)     H.264(1): 2,560 x 1,920 / 2,048 x 1,536 / 1,600 x 1,200 / 1,280 x 960 / 800 x 600, up to 30 fps     H.264(2): 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 fps     H.264(2): 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 fps     H.264(2): 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 fps     H.264(1): 2,560 x 1,440 / 1,920 x 1,080 / 1,280 x 720, up to 30 fps     H.264(2): 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps     H.264(3): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps     JPEG(2): 640 x 360     JPEG(2): 640 x 360, up to 30 fps
		* 8 mega pixel [16:9] (15 fps mode)     H.264(1): 3,840 x 2,160, up to 15 fps Compliant with H.264     H.264(2): 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fp     JPEG(1): Enables the setting of the resolution in the same way as for H.264 (1), H.264 (2), or JPEG (2).     JPEG(2): 640 x 360     * 12 mega pixel [4:3] (15 fps mode)     H.264(1): 4,000 x 3,000, up to 15 fps     H.264(2): 640 x 480 / 320 x 240, up to 5 fps     JPEG(1): Enables the setting of the resolution in the same way as for H.264 (1), H.264 (2), or JPEG (2).     JPEG(2): 640 x 480     * 5 mega pixel [4:3] (30 fps mode)     H.264(1): 2,560 x 1,920 / 2,048 x 1,536 / 1,600 x 1,200 / 1,280 x 960 / 800 x 600, up to 30 fps     H.264(2): 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 fp     JPEG(2): 640 x 480      * 4 mega pixel [16:9] (30 fps mode)     H.264(1): 2,560 x 1,440 / 1,920 x 1,080 / 1,280 x 720, up to 30 fp     H.264(2): 1,920 x 1,080 / 1,280 x 720, up to 30 fp     H.264(3): 1,280 x 720 / 640 x 480  4 mega pixel [16:9] (30 fps mode)     H.264(3): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fp     H.264(3): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fp     H.264(4): 640 x 360, up to 30 fps     JPEG(2): 640 x 360     * Cropping [16:9] (30 fps mode)
		*8 mega pixel [16:9] (15 fps mode)     H.264(1): 3,840 x 2,160, up to 15 fps Compliant with H.264     H.264(2): 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fp     JPEG(1): Enables the setting of the resolution in the same way as for H.264 (1), H.264 (2), or JPEG (2).  JPEG(2): 640 x 360      *12 mega pixel [4:3] (15 fps mode)     H.264(1): 4,000 x 3,000, up to 15 fps     H.264(1): 4,000 x 3,000, up to 15 fps     JPEG(2): 640 x 480 / 320 x 240, up to 5 fps     JPEG(1): Enables the setting of the resolution in the same way as for H.264 (1), H.264 (2), or JPEG (2).  JPEG(2): 640 x 480      *5 mega pixel [4:3] (30 fps mode)     H.264(1): 2,560 x 1,920 / 2,048 x 1,536 / 1,600 x 1,200 / 1,280 x 960 / 800 x 600, up to 30 fps     H.264(2): 1,280 x 960 / 800 x 600, up to 30 fps     H.264(2): 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 fp     JPEG(2): 640 x 480   4 mega pixel [16:9] (30 fps mode)     H.264(2): 1,920 x 1,080 / 1,280 x 720, up to 30 fp     H.264(2): 1,920 x 1,080 / 1,280 x 720, up to 30 fp     H.264(3): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps     H.264(3): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps     JPEG(2): 640 x 360  Cropping [16:9] (30 fps mode)     H.264(1): Ch1 1,280 x 720 / 640 x 360, up to 30 fps Croppin [16:9] (30 fps mode)     H.264(1): Ch1 1,280 x 720 / 640 x 360, up to 30 fps Croppin [16:9] (30 fps mode)     H.264(1): Ch1 1,280 x 720 / 640 x 360, up to 30 fps Croppin [16:9] (30 fps mode)
		*8 mega pixel [16:9] (15 fps mode)     H.264(1): 3,840 x 2,160, up to 15 fps Compliant with H.264     H.264(2): 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fp     JPEG(1): Enables the setting of the resolution in the same way at for H.264 (1), H.264 (2), or JPEG (2).      JPEG(2): 640 x 360     *12 mega pixel [4:3] (15 fps mode)     H.264(1): 4,000 x 3,000, up to 15 fps     H.264(1): 640 x 480 / 320 x 240, up to 5 fps     JPEG(1): Enables the setting of the resolution in the same way at for H.264 (1), H.264 (2), or JPEG (2).      JPEG(2): 640 x 480     *5 mega pixel [4:3] (30 fps mode)     H.264(1): 2,560 x 1,920 / 2,048 x 1,536 / 1,600 x 1,200 / 1,280 x 960 / 800 x 600, up to 30 fps     H.264(2): 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 fps     H.264(2): 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 fps     H.264(2): 1,560 x 1,440 / 1,920 x 1,080 / 1,280 x 720, up to 30 fps     H.264(2): 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps     H.264(3): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps     JPEG(2): 640 x 360     *Cropping [16:9] (30 fps mode)     H.264(1): Ch1 1,280 x 720 / 640 x 360, up to 30 fps Croppin H.264(1): Ch1 1,280 x 720 / 640 x 360, up to 30 fps Croppin H.264(1): Ch1 1,280 x 720 / 640 x 360, up to 30 fps Croppin H.264(1): Ch2 1,280 x 720 / 640 x 360, up to 30 fps Croppin H.264(1): Ch2 1,280 x 720 / 640 x 360, up to 30 fps Croppin H.264(1): Ch2 1,280 x 720 / 640 x 360, up to 30 fps Croppin H.264(1): Ch2 1,280 x 720 / 640 x 360, up to 30 fps Croppin H.264(1): Ch2 1,280 x 720 / 640 x 360, up to 30 fps Croppin H.264(1): Ch2 1,280 x 720 / 640 x 360, up to 30 fps Croppin H.264(1): Ch2 1,280 x 720 / 640 x 360, up to 30 fps Croppin H.264(1): Ch2 1,280 x 720 / 640 x 360, up to 30 fps Croppin H.264(1): Ch2 1,280 x 720 / 640 x 360, up to 30 fps Croppin H.264(1): Ch2 1,280 x 720 / 640 x 360, up to 30 fps Croppin H.264(1): Ch2 1,280 x 720 / 640 x 360, up to 30 fps Croppin H.264(1): Ch2 1,280 x 720 / 640 x 360, up to 30 fps Croppin
		** 8 mega pixel [16:9] (15 fps mode)     ** H.264(1): 3,840 x 2,160, up to 15 fps Compliant with H.264     ** H.264(2): 1;920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fp     ** JPEG(1): Enables the setting of the resolution in the same way as for H.264 (1), H.264 (2), or JPEG (2).      ** JPEG(2): 640 x 360     ** 12 mega pixel [4:3] (15 fps mode)     ** H.264(1): 4,000 x 3,000, up to 15 fps     ** H.264(1): 4,000 x 3,000, up to 15 fps     ** JPEG(2): 640 x 480 / 320 x 240, up to 5 fps     ** JPEG(2): 640 x 480 / 320 x 240, up to 5 fps     ** JPEG(2): 640 x 480 / 320 x 240, up to 5 fps     ** JPEG(2): 640 x 480      ** 5 mega pixel [4:3] (30 fps mode)     ** H.264(1): 2,560 x 1,920 / 2,048 x 1,536 / 1,600 x 1,200 / 1,280 x 960 / 800 x 600, up to 30 fps     ** H.264(2): 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 fp     ** H.264(2): 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 fp     ** H.264(1): 2,560 x 1,440 / 1,920 x 1,080 / 1,280 x 720, up to 30 fp     ** H.264(2): 1,920 x 1,080 / 1,280 x 720, up to 30 fp     ** H.264(3): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps     ** H.264(3): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps     ** H.264(1): Ch2 1,280 x 720 / 640 x 360, up to 30 fps Croppin     ** H.264(1): Ch1 1,280 x 720 / 640 x 360, up to 30 fps Croppin     ** H.264(1): Ch2 1,280 x 720 / 640 x 360, up to 30 fps Croppin     ** H.264(1): Ch3 1,280 x 720 / 640 x 360, up to 30 fps Croppin     ** H.264(1): Ch3 1,280 x 720 / 640 x 360, up to 30 fps Croppin     ** H.264(1): Ch3 1,280 x 720 / 640 x 360, up to 30 fps Croppin     ** H.264(1): Ch3 1,280 x 720 / 640 x 360, up to 30 fps Croppin     ** H.264(1): Ch3 1,280 x 720 / 640 x 360, up to 30 fps Croppin     ** H.264(1): Ch3 1,280 x 720 / 640 x 360, up to 30 fps Croppin     ** H.264(1): Ch3 1,280 x 720 / 640 x 360, up to 30 fps Croppin     ** H.264(1): Ch3 1,280 x 720 / 640 x 360, up to 30 fps Croppin
		** 8 mega pixel [16:9] (15 fps mode)     ** H.264(1): 3,840 x 2,160, up to 15 fps Compliant with H.264     ** H.264(2): 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fp     **JPEG(1): Enables the setting of the resolution in the same way as for H.264 (1), H.264 (2), or JPEG (2).     **JPEG(2): 640 x 360     ** 12 mega pixel [4:3] (15 fps mode)     **H.264(1): 4,000 x 3,000, up to 15 fps     **H.264(2): 640 x 480 / 320 x 240, up to 5 fps     **JPEG(1): Enables the setting of the resolution in the same way as for H.264 (1), H.264 (2), or JPEG (2).     **JPEG(2): 640 x 480     ***5 mega pixel [4:3] (30 fps mode)     **H.264(1): 2,560 x 1,920 / 2,048 x 1,536 / 1,600 x 1,200 /     **1,280 x 960 / 800 x 600, up to 30 fps     **H.264(2): 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 fp     **JPEG(2): 640 x 480       **4 mega pixel [16:9] (30 fps mode)     **H.264(1): 2,560 x 1,440 / 1,920 x 1,080 / 1,280 x 720, up to 30 fps     **H.264(1): 2,560 x 1,440 / 1,920 x 1,080 / 1,280 x 720, up to 30 fps     **H.264(1): 2,560 x 1,440 / 1,920 x 1,080 / 1,280 x 720, up to 30 fps     **H.264(1): 2,560 x 1,440 / 1,920 x 1,080 / 1,280 x 720, up to 30 fps     **H.264(1): 2,560 x 1,440 / 1,920 x 1,080 / 1,280 x 720, up to 30 fps     **H.264(1): 2,560 x 1,440 / 1,920 x 1,080 / 1,280 x 720, up to 30 fps     **H.264(1): 2,560 x 1,440 / 1,920 x 1,080 / 1,280 x 720, up to 30 fps     **H.264(1): 1,280 x 720 / 640 x 360, up to 30 fps Croppin     **H.264(1): Ch1 1,280 x 720 / 640 x 360, up to 30 fps Croppin     **H.264(1): Ch1 1,280 x 720 / 640 x 360, up to 30 fps Croppin     **H.264(1): Ch3 1,280 x 720 / 640 x 360, up to 30 fps Croppin     **H.264(1): Ch3 1,280 x 720 / 640 x 360, up to 30 fps Croppin     **H.264(1): Ch3 1,280 x 720 / 640 x 360, up to 30 fps Croppin     **H.264(1): Ch3 1,280 x 720 / 640 x 360, up to 30 fps Croppin     **H.264(1): Ch3 1,280 x 720 / 640 x 360, up to 30 fps Croppin     **H.264(1): Ch3 1,280 x 720 / 640 x 360, up to 30 fps Croppin     **H.264(1): Ch3 1,280 x 720 / 640 x 360, up

Network		_	
Network	H.264	Frame Rate <when th="" variable<=""><th>1/3/5*/7.5*/10*/12*/15*/20*/30* fps</th></when>	1/3/5*/7.5*/10*/12*/15*/20*/30* fps
		bit rate, Frame rate, or Advanced	* The frame rate is limited to "bit rate".
			When a value with an asterisk (*) is selected, the actual frame
		VBR is selected>	rate may be lower than the value selected.
		Bit Rate/Client	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 /
			4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 /
			20,480 / 24,576 / 30,720 / 40,960 kbps
			* The available range of the H.264 bit rate varies depending on the setting selected for "image capture size".
		Imaga Quality	When Constant bit rate or Best effort is selected>
		Image Quality	Low / Normal / Fine
			When Variable bit rate is selected>
			0 Super Fine / 1 Fine / 2 / 3 / 4 / 5 Normal / 6 / 7 / 8 / 9 Low
		Refresh Interval	0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s
		Transmission Type	Unicast / Multicast
	JPEG	Image Quality	10 steps
	0. 20	Refresh Interval	
			(JPEG frame rate will be restricted when displaying both JPEG and H.264 images.)
		Transmission Type	Pull / Push
	Audio C	ompression	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC*3
	Audio transmission/		64 kbps / 96 kbps / 128 kbps
			Off / Mic (Line) input / Audio output / Interactive (Half duplex) /
	reception		Interactive (Full duplex)
	Authentication for Audio Supported Protocol		Level 1 only / Level 2 higher / All users
			IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS,
			NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP
			IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,
			FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP,
			IGMP, ICMP, ARP
	FTP Clie	ent	Alarm image transmission, FTP periodic transmission
			(When the FTP transmission is failed, backup on an optional
			SDXC/SDHC/SD memory card is available.)
		ncurrent access number	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD		H.264 recording: Manual REC / Alarm REC (Pre/Post) /
		Card (Option)	Schedule REC / Backup upon network failure
	* Use the SD memory card manufactured by Panasonic (SD speed class 4 orhigher), and in the case of SD Speed Class 10, that complies with UHS-1(Ultra High Speed-1).		JPEG recording: Manual REC / Alarm REC (Pre/Post) / FTP error /
			Backup upon network failure
			Compatible SD (SDHC/SDXC) card: Panasonic 2 GB, 4 GB*, 8 GB*,
			16 GB*, 32 GB*, 64GB** model
			*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Cellular Phone Compatibility		JPEG image, AUX control (by access level)
	Mobile Terminal Compatibility*4		iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile terminals
Alarm	Alarm Source		3 terminals input, VMD, Command alarm
	Alarm Actions  Alarm Log Schedule		SDXC/SDHC/SD memory recording, E-mail notification,
			Indication on browser, FTP image transfer, Panasonic protocol output
			With SDXC/SDHC/SD memory card: 50,000 logs
			Alarm / VMD / Access permission / H.264 recording / Scene file /
Input/	Monitor O	itput (for adjustment)	FTP periodic image transmission  VBS: 1.0 V [p-p] / 75 Ω, NTSC / PAL composite, RCA jack
Output		one/Line Input	ø3.5 mm stereo mini jack
Gutput		0110/ E1110 111put	Input impedance: Approx. 2 kΩ (unbalanced)
			Recommended applicable microphone: Plug-in power type
		For microphone	
		For microphone	
		For microphone input	Supply voltage: 2.5 V ±0.5 V
			Supply voltage: 2.5 V $\pm 0.5$ V Recommended sensitivity of microphone:
		input	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone: -48 dB±3 dB (0 dB=1 V/Pa, 1 kHz)
	Audio O	For line input	Supply voltage: 2.5 V $\pm 0.5$ V Recommended sensitivity of microphone:
	Audio O	For line input	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone: -48 dB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx10 dBV ø3.5 mm stereo mini jack
		For line input utput *5	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone: -48 dB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx10 dBV a3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: -20 dBV
		For line input	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone: -48 dB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx10 dBV a3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: -20 dBV
		For line input utput *5	Supply voltage: $2.5 \text{ V} \pm 0.5 \text{ V}$ Recommended sensitivity of microphone: $-48 \text{ GB-3} \text{ M} \text{ (0 dB=1 V/Pa, 1 kHz)}$ Input level: Approx. $-10 \text{ dBV}$ $63.5 \text{ mm}$ stereo mini jack Output impedance: Approx. $600 \Omega$ (unbalanced) / Output level: $-20 \text{ dBV}$ Can be used as the monitor output by switching browser GUV
General		For line input utput *5	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 dB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx10 dBV  03.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: -20 dBV Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT)
General	External	For line input utput *5	Supply voltage: $2.5 \text{ V} \pm 0.5 \text{ V}$ Recommended sensitivity of microphone: $-48 \text{ dB} \pm 3 \text{ dB}$ (0 dB=1 V/Pa, 1 kHz) Input level: Approx. $-10 \text{ dBV}$ $= 3.5 \text{ mm}$ stereo mini jack Output impedance: Approx. $= 600 \Omega$ (unbalanced) / Output level: $-20 \text{ dBV}$ Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) IL (ILL6950-1, U160950-22), C-UL (CAN/CSA C22.2 No.60950-1) CE, IEC60950-1
General	External	For line input utput *5	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 GB±3 6B (0 dB=1 V/Pa, 1 kHz) Input level: Approx10 dBV o3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: -20 dBV Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL60950-1, Ul60950-22), C-UL (CAN/CSA C22.2 No.60950-1) CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB,
General	External Safety EMC	For line input utput 15	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 dB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx10 dBV ø3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: -20 dBV Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL60950-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1) CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024
General	External Safety EMC Power S	For line input utput '5' I/O Terminals	Supply voltage: $2.5 \text{ V} \pm 0.5 \text{ V}$ Recommended sensitivity of microphone: $-48 \text{ GB-3} \text{ MB}$ (0 GB=1 V/Pa, 1 kHz) Input level: Approx. $-10 \text{ dBV}$ $63.5 \text{ mm}$ stereo mini jack Output impedance: Approx. $600 \Omega$ (unbalanced) / Output level: $-20 \text{ dBV}$ Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UI (UIL0950-1, UI60950-22), C-UL (CAN/CSA C22.2 No.60950-1) CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V: 1050 mA / Approx. 12.6 W
General	External Safety EMC Power S	For line input utput 15	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 GB±3 6B (0 dB=1 V/Pa, 1 kHz) Input level: Approx. –10 dBV  -03.5 mm stereo mini jack  Output impedance: Approx. 600 Ω (unbalanced) / Output level: –20 dBV  Can be used as the monitor output by switching browser GUI.  ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT),  ALARM IN3 (AUX OUT, DAY/NIGHT OUT)  UL (UL60950-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1)  CE, IEC60950-1  FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB,  EN55022 ClassB, EN55024  DC12 V : 1050 mA / Approx. 12.6 W  PoE (IEEE802.3af compliant) /
General	External Safety EMC Power S Power C	input	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 dBa3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx. –10 dBV a3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: –20 dBV Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL60950-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1) CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V : 1050 mA / Approx. 12.6 W PoE (IEEE802.3af compliant) / PoE DC48 V : 265 mA / Approx. 12.95 W (Class 0 device)
General	External Safety EMC Power S Power C	For line input utput '5  I/O Terminals  I/O Terminals	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 dB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx10 dBV  -3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: -20 dBV Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) U(UL0950-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1) FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V : 1050 mA / Approx. 12.6 W Po€ ICEEB02.3af compliant) / Po€ DC48 V : 265 mA / Approx. 12.95 W (Class 0 device)  -45 °C to +50 °C {-49 °F to 122 °F}
General	External Safety EMC Power S Power C Ambient O Ambient C	For line input utput '5  I/O Terminals  lource and consumption '6  perating Temperature Deparating Humidity	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 GB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx. –10 dBV ø3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: –20 dBV Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL60950-1, Ul60950-22), C-UL (CAN/CSA C22.2 No.60950-1) CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V : 1050 mA / Approx. 12.6 W PoE (IEEE802.3af compliant) / PoE DC48 V : 265 mA / Approx. 12.95 W (Class 0 device)  -45 °C to +50 °C (–49 °F to 122 °F) 10 to 90 % (no condensation)
General	External Safety EMC Power S Power C Ambient 0 Impact I	input  For line input utput *5  I/O Terminals  For line input utput *5  I/O Terminals  For line input Utput *5  I/O Terminals	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 dB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx10 dBV ø3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: -20 dBV Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL60950-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1) CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V : 1050 mA / Approx. 12.6 W PoE (IEEE802.3af compliant) / PoE DC48 V : 265 mA / Approx. 12.95 W (Class 0 device)  -45 °C to +50 °C (-49 °F to 122 °F) 10 to 90 % (no condensation) Compliant with IK10 (IEC 62262)
General	External Safety EMC Power S Power C Ambient O Ambient O Water an	For line input utput '5  I/O Terminals  I/O Terminals  For line input utput '5  For line input utput u	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 dB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx10 dBV  -03.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: -20 dBV  Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) U (UL0950-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1) FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024  DC12 V : 1050 mA / Approx. 12.6 W PoE (IEEE802.3af compliant) / PoE DC48 V: 265 mA / Approx. 12.95 W (Class 0 device)  -45 °C to +50 °C {-49 °F to 122 °F} 10 to 90 % (no condensation) Compliant with IK10 (IEC 62262) Main body: IP66 (IEC60529), Type 4X (UL50),
General	External Safety EMC Power S Power C Ambient 0 Impact I Water at Dust Re	For line input utput '5  I/O Terminals  lource and consumption '6  perating Temperature perating Hunidity Protection disistance '7	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 GB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx10 dBV ø3.5 mm stereo mini jack 00.15 mm stereo m
General	External Safety EMC Power S Power C Ambient O Ambient O Water an	For line input utput '5  I/O Terminals  lource and consumption '6  perating Temperature perating Hunidity Protection disistance '7	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 GB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx10 dBV ø3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: -20 dBV Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL60950-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1) CCE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V : 1050 mA / Approx. 12.6 W POE (IEEE802.3af compliant) / POE DC48 V : 265 mA / Approx. 12.95 W (Class 0 device)  -45 °C to +50 °C (-49 °F to 122 °F) 10 to 90 % (no condensation) Compliant with IK10 (EC 62262) Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When using the attachment plate :
General	External Safety EMC Power S Power C Ambient 0 Impact I Water at Dust Re	For line input utput '5  I/O Terminals  lource and consumption '6  perating Temperature perating Hunidity Protection disistance '7	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 dBa3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx. –10 dBV  -83.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: –20 dBV Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL69950-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1) FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V : 1050 mA / Approx. 12.6 W POE (IEEE802.3af compliant) / POE DC48 V : 265 mA / Approx. 12.95 W (Class 0 device)  -45 °C to +50 °C (-49 °F to 122 °F) 10 to 90 % (no condensation) Compliant with IK10 (IEC 62262) Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When using the attachment plate : e228 mm x 189 mm (H) {e8-31/32 inches x 7-7/16 inches (H)},
General	External Safety EMC Power S Power C Ambient 0 Impact I Water at Dust Re	For line input utput '5  I/O Terminals  lource and consumption '6  perating Temperature perating Hunidity Protection disistance '7	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 GB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx. –10 dBV ø3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: –20 dBV Can be used as the monitor output by switching browser GUI ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL60950-1, Ul60950-22), C-UL (CAN/CSA C22.2 No.60950-1) CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V : 1050 mA / Approx. 12.6 W PoE (IEEE802.3af compliant) / PoE DC48 V : 265 mA / Approx. 12.95 W (Class 0 device)  -45 °C to +50 °C (-49 °F to 122 °F) 10 to 90 % (no condensation) Compliant with IK10 (IEC 62262) Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When using the attachment plate : 9228 mm x 189 mm (H) (ø8-31/32 inches x 7-7/16 inches (H)), Dome radius 80 mm (3-5/32 inches)
General	External Safety EMC Power S Power C Ambient 0 Impact I Water at Dust Re	For line input utput '5  I/O Terminals  lource and consumption '6  perating Temperature perating Hunidity Protection disistance '7	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 GB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx10 dBV ø3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: -20 dBV Can be used as the monitor output by switching browser GUI ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL60950-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1) CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V : 1050 mA / Approx. 12.6 W POE (IEEEB02.3af compliant) / POE DC48 V : 265 mA / Approx. 12.95 W (Class 0 device)  -45 °C to +50 °C (-49 °F to 122 °F) 10 to 90 % (no condensation) Compliant with IK10 (IEC 62262) Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When using the attachment plate : e228 mm x 189 mm (H) (e8-31/32 inches x 7-7/16 inches (H)), Dome radius 80 mm (3-5/32 inches) When using the base bracket:
General	External Safety EMC Power S Power C Ambient 0 Impact I Water at Dust Re	For line input utput '5  I/O Terminals  lource and consumption '6  perating Temperature perating Hunidity Protection disistance '7	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 dBa3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx. –10 dBV  -3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: –20 dBV Can be used as the monitor output by switching browser GUI ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL69950-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1) CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V : 1050 mA / Approx. 12.6 W POE (IEEE802.3af compliant) / POE DC48 V : 265 mA / Approx. 12.95 W (Class 0 device)  -45 °C to +50 °C (-49 °F to 122 °F) 10 to 90 % (no condensation) Compliant with IK10 (IEC 62262) Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When using the attachment plate :
General	External Safety EMC Power S Power C Ambient 0 Ambient 1 Impact F Water au Dust Re Dimensi	input  For line input utput '5  I/O Terminals  iource and iousce and iouscumption '6  perating Temperature perating Humidity Protection dissistance '7 ons	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 GB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx10 dBV ø3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: -20 dBV Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL60950-1, Ul60950-22), C-UL (CAN/CSA C22.2 No.60950-1) CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V : 1050 mA / Approx. 12.6 W PoE (IEEE802.3af compliant) / PoE DC48 V : 265 mA / Approx. 12.95 W (Class 0 device)  -45 °C to +50 °C (-49 °F to 122 °F) 10 to 90 % (no condensation) Compliant with IK10 (IEC 62262) Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When using the attachment plate : 9228 mm x 189 mm (H) {ø8-31/32 inches x 7-7/16 inches (H)}, Dome radius 80 mm (3-5/32 inches) When using the base bracket: 9228 mm x 225 mm (H) {ø8-31/32 inches x 8-27/32 inches (H)}, Dome radius 80 mm (3-5/32 inches)
General	External Safety EMC Power S Power C Ambient 0 Impact I Water at Dust Re	input  For line input utput '5  I/O Terminals  iource and iousce and iouscumption '6  perating Temperature perating Humidity Protection dissistance '7 ons	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 GB±3 6B (0 dB=1 V/Pa, 1 kHz) Input level: Approx10 dBV ø3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: -20 dBV Can be used as the monitor output by switching browser GUI ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL60950-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1) CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V : 1050 mA / Approx. 12.6 W PCE (IEEEB02.3af compliant) / POE DC48 V : 265 mA / Approx. 12.95 W (Class 0 device)  -45 °C to +50 °C (-49 °F to 122 °F) 10 to 90 % (no condensation) Compliant with IK10 (IEC 62262) Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When using the attachment plate :  α228 mm x 189 mm (H) (68-31/32 inches x 7-7/16 inches (H)), Dome radius 80 mm (3-5/32 inches) When using the base bracket:  α228 mm x 225 mm (H) (68-31/32 inches x 8-27/32 inches (H)), Dome radius 80 mm (3-5/32 inches) When using the attachment plate :  α228 mm x 225 mm (H) (68-31/32 inches x 8-27/32 inches (H)), Dome radius 80 mm (3-5/32 inches) When using the attachment plate :  α228 mm x 225 mm (H) (68-31/32 inches x 8-27/32 inches (H)), Dome radius 80 mm (3-5/32 inches)
General	External Safety EMC Power S Power C Ambient O Ambient O Impact I Water au Dust Re Dimensi	input  For line input utput '5  I/O Terminals  iource and iousce and iouscumption '6  perating Temperature perating Humidity Protection dissistance '7 ons	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 GB.3 6 I 0 GB=1 V/Pa, 1 kHz) Input level: Approx10 dBV a3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: -20 dBV Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL60950-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1) CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V : 1050 mA / Approx. 12.6 W POE (IEEE802.3af compliant) / POE DC48 V : 265 mA / Approx. 12.95 W (Class 0 device) -45 °C to +50 °C (-49 °F to 122 °F) 10 to 90 % (no condensation) Compliant with IK10 (EC 62262) Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When using the attachment plate : o228 mm x 189 mm (H) (o8-31/32 inches x 7-7/16 inches (H)), Dome radius 80 mm (3-5/32 inches) When using the base bracket: o228 mm x 225 mm (H) (o8-31/32 inches x 8-27/32 inches (H)), Dome radius 80 mm (3-5/32 inches) When using the attachment plate : Approx. 3.7 kg (8.16 lbs) When using the base bracket: -4Approx. 3.7 kg (8.16 lbs)
General	External Safety EMC Power S Power C Ambient 0 Ambient 1 Impact F Water au Dust Re Dimensi	input  For line input utput '5  I/O Terminals  iource and iousce and iouscumption '6  perating Temperature perating Humidity Protection dissistance '7 ons	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 GB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx10 dBV ø3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: -20 dBV Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL60950-1, Ul60950-22), C-UL (CAN/CSA C22.2 No.60950-1) CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V : 1050 mA / Approx. 12.6 W PoE (IEEE802.3af compliant) / PoE DC48 V : 265 mA / Approx. 12.95 W (Class 0 device) -45 °C to +50 °C (-49 °F to 122 °F) 10 to 90 % (no condensation) Compliant with IK10 (IEC 62262) Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When using the attachment plate : 9228 mm x 189 mm (H) (ø8-31/32 inches x 7-7/16 inches (H)), Dome radius 80 mm (3-5/32 inches) When using the base bracket: 228 mm x 225 mm (H) (ø8-31/32 inches x 8-27/32 inches (H)), Dome radius 80 mm (3-5/32 inches) When using the base bracket: Approx. 3.2 kg (7.05 lbs) When using the base bracket: Approx. 3.7 kg (8.16 lbs) Main body: Aluminum die cast, light gray,
General	External Safety EMC Power S Power C Ambient O Ambient O Impact I Water au Dust Re Dimensi	input  For line input utput '5  I/O Terminals  iource and iousce and iouscumption '6  perating Temperature perating Humidity Protection dissistance '7 ons	Supply voltage: 2.5 V ±0.5 V Recommended sensitivity of microphone:  -48 GB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx10 dBV ø3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: -20 dBV Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL60950-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1) CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V : 1050 mA / Approx. 12.6 W PCE (IEEE802.3 af compliant) / POE DC48 V : 265 mA / Approx. 12.95 W (Class 0 device) -45 °C to +50 °C (-49 °F to 122 °F) 10 to 90 % (no condensation) Compliant with IK10 (IEC 62262) Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When using the attachment plate : a228 mm x 189 mm (H) (68-31/32 inches x 7-7/16 inches (H)), Dome radius 80 mm (3-5/32 inches) When using the base bracket: a228 mm x 225 mm (H) (68-31/32 inches x 8-27/32 inches (H)), Dome radius 80 mm (3-5/32 inches) When using the base bracket:
General	External Safety EMC Power S Power C Ambient O Ambient O Impact I Water au Dust Re Dimensi	input  For line input utput '5  I/O Terminals  iource and iousce and iouscumption '6  perating Temperature perating Humidity Protection dissistance '7 ons	Supply voltage: 2.5 V ± 0.5 V Recommended sensitivity of microphone:  -48 GB±3 dB (0 dB=1 V/Pa, 1 kHz) Input level: Approx. –10 dBV ø3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) / Output level: –20 dBV Can be used as the monitor output by switching browser GUI. ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL60950-1, Ul60950-22), C-UL (CAN/CSA C22.2 No.60950-1) CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55022 ClassB, EN55024 DC12 V : 1050 mA / Approx. 12.6 W PoE (IEEE802.3af compliant) / PoE DC48 V : 265 mA / Approx. 12.95 W (Class 0 device) -45 °C to +50 °C (-49 °F to 122 °F) 10 to 90 % (no condensation) Compliant with IK10 (IEC 62262) Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When using the attachment plate : ø228 mm x 189 mm (H) (ø8-31/32 inches x 7-7/16 inches (H)), Dome radius 80 mm (3-5/32 inches) When using the base bracket: 228 mm x 225 mm (H) (ø8-31/32 inches x 8-27/32 inches (H)), Dome radius 80 mm (3-5/32 inches) When using the base bracket: Approx. 3.7 kg (8.16 lbs) Main body: Aluminum die cast, light gray,

- \*1 Converted value
- "2 For further information about PC system requirements and precautions for when using Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, or Windows Internet Explorer, click "Manual" "Open" from the supplied CD-ROM and refer to "Notes on Windows® / Internet Explorer® versions".
- \*3 AAC-LC (Advanced Audio Coding Low Complexity) is only used when recording audio on an SD memory card.
  \*4 For further information about compatible devices, refer to our website
- (http://security.panasonic.com/pss/security/support/info.html). 
  "5 In order to be able to switch the monitor output, "8 mega pixel [16:9](15fps mode)", "5 mega pixel [4:3](30fps mode)", or "12 mega pixel [4:3](15fps mode)" must be selected for "Image capture mode". For information about usage limitations, refer to "2.3.1 Configure the basic settings [Basic]" in the "Operating Instructions".
- "6 Refer to our website ( http://security.panasonic.com/pss/security/support/info.html ) for further information about Power source and Power consumption information.
- \*7 Only when installation work is properly performed according to the instructions in this book and appropriate waterproof treatment is performed.
- \*8 Component that has a structure on which the screws that are accessible after installation cannot be screwed or unscrewed using an ordinary screwdriver.

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



#### Inside the dome cover (with IR LED mounting section opened)

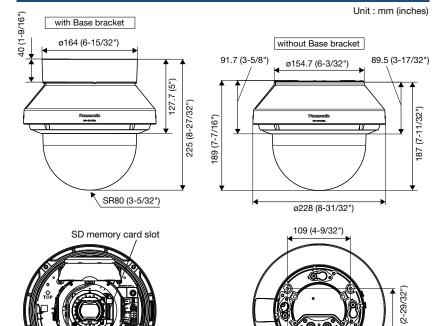
Direction marker for installation(TOP) •Points up when installing to a wall. SD\*1 memory card slot Data Matrix: To our website\* MONITOR OUT terminal (factory shipment: NTSC monitor) Auxiliary wire Pan table fixing screw Screen display top (TOP) Camera fixing screw Direction marker NTSC/PAL switch for installation (FRONT !) INITIAL SET button FRONT must positioned in front of the camera SD ON/OFF button (on the Panasonic logo side). SD MOUNT indicator SD ERROR/AF indicator ACT indicator TELE button LINK indicator (moves the camera to Auto focus (AF) button the "Tele" side) - WIDE button

- \*1 SDXC/SDHC/SD memory card is described as SD memory card
- 2 Data Matrix is our website address converted into a two-dimensional barcode.

  Depending on the scanning application used, the Data Matrix may not be able to be read correctly. In such case, directly enter the following URL.

http://security.panasonic.com/pss/security/support/qr\_sp\_select.html

#### **Appearance**



### **Standard Accessories**

 Important Information ...... Code label \*2 ......

(moves the camera to the "Wide" side)

The following parts are used during installation procedures. Attachment plate ......1 pc.

- Base bracket ......1 pc. • Fixing screws for attachment plate (M4 x 8 mm) ....... ...... 5 pcs. (of them, 1 for spare)
- • Bit (Hex wrench, screw size 6.35 mm {1/4 inches} T20) ...... 1 pc. Waterproof tape ......1 pc.
- 4P alarm cable ......1 pc. • 2P power cable ...... 1 pc.
- \*1 The CD-ROM contains the operating instructions and different kinds of tool software programs.
- \*2 This label may be required for network management. The network administrator shall retain the code label.
- \*3 This can be used as MONITOR OUT by switching the audio/monitor output cable of the unit using software switching.

  Connect the MONITOR OUT conversion plug to the audio/monitor output cable and use it when converting the ø3.5 mm stereo mini jack to the RCA pin jack output.

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   Android is a trademark of Google Inc.
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- All other trademarks identified herein are the property of their respective owners.
- ONVIF and the ONVIF logo are trademarks of ONVIF Inc.

- 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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