

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
 - 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

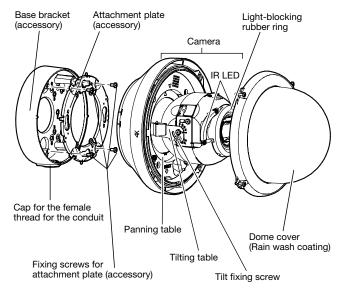
Specifications

Camera	Image Sensor	1/1.7 type MOS image sensor
	Effective Pixels Scanning Mode	Approx. 12.4 mega pixels Progressive scan
	Scanning Mode Scanning Area	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 Color: 0.02 lx, BW 0.003 lx (F1.6, Maximum shutter: Max. 16/30s, AGC: High)
	IR LED Light	Off/Auto(High/Mid/Low)
	IR LED irradiation distance	Approx. 30 m {98.43 feet} {at IR LED: Auto (High)} ATW1 (2,700 - 6,000 K) /ATW2 (2,000 - 6,000 K) /AWC (2,000 - 10,000 F
	White Balance	
	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	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
	Wide Dynamic Range	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
	Adaptive Black Stretch	
	Fog compensation	
	High light compensation(HLC) Gain (AGC)	
	Day & Night (ICR)	
	Digital Noise Reduction	
	Video Motion Detection (VMD) Privacy Zone	On / Off, 4 areas available
	VIQS	On / Off (up to 8 zones available) On / Off (up to 8 locations) On / Off Up to 20 characters (alphanumeric characters, mark
	Camera Title (OSD)	
	Focus Adjustment	AF / Manual (Html only)
Lens	Vari Focal Length Angular Field of View	4.2 mm - 25.2 mm {5/32 inches – 1 inch} [16 : 9 mode] Horizontal : 17 ° (TELE) - 96 ° (WIDE)
	7 trigular Field of View	Vertical : 9.3 ° (TELE) - 54 ° (WIDE)
		[4 · 3 mode] Horizontal · 17° (TELE) - 100 ° (WIDE)
	Maximum Aperture Ratio	Vertical : 13 ° (TELE) - 75 ° (WIDE) 1 : 1.6 (WIDE) - 1 : 3.3 (TELE)
	Focusing Range	0.6 m - ∞
Adjusting		Horizontal: ±180 °
		Vertical: 0 to 85°
Browser	Cropping	Image tilt adjustment range: –45° (Left) to +300° (Right) H.264(1) Ch1- Ch4
GUI	Огорринд	Up to 4 image capture areas can be specified.
		*only when Image capture mode : Cropping [16:9] (30fps mod
	Camera Control Display Mode	Brightness, AUX On / Off Spot, Quad: Image from 16 cameras can be displayed in
	Display Mode	4 different Quad screens or 16 split screen (JPEG only).
		20 characters camera title available.
	Digital Zoom	1x, 2x, 4x controlled by browser GUI
	Camera Title Clock Display	Up to 20 alphanumeric characters Time: 12H/24H,
	Olock Display	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.
	Audio	Mic (Line) Input: On / Off Volume adjustment: Low / Middle / Higl Audio Output: On / Off Volume adjustment: Low / Middle / Higl
	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),
	Capportoa Brottoor	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
	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)
		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(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
		• 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 / 640 x 360 / 320 x 180, up to 30 fg
		H.264(3): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264(4): 640 x 360, 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): 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): Ch4 1,280 x 720 / 640 x 360, up to 30 fps Croppin
		H.264(2): 1,920 x 1,080 / 1,280 x 720 / 640 x 360 /320 x 180, up to 30 fg
		JPEG(1): Enables the setting of the resolution in the same way a
		for H.264 (2) or JPEG (2). JPEG(2): 640 x 360
	H.264 Transmission	Constant bit rate / Variable bit rate / Frame rate / Best effort /

Network			
	H.264	Frame Rate <when td="" variable<=""><td>1/3/5*/7.5*/10*/12*/15*/20*/30* fps</td></when>	1/3/5*/7.5*/10*/12*/15*/20*/30* fps
		bit rate, Frame	* The frame rate is limited to "bit rate".
		rate, or Advanced	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 bit="" is="" rate="" selected="" variable=""></when>
			0 Super Fine / 1 Fine / 2 / 3 / 4 / 5 Normal / 6 / 7 / 8 / 9 Low
		Refresh Interval	0.2/0.25/0.33/0.5/1/2/3/4/5s
		Transmission Type	
	JPEG	Image Quality	10 steps
		Refresh Interval	0.1 fps - 30 fps
			(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
			64 kbps / 96 kbps / 128 kbps
	Audio transmission/		Off / Mic (Line) input / Audio output / Interactive (Half duplex) /
	reception		Interactive (Full duplex)
	Authentication for Audio		Level 1 only / Level 2 higher / All users
	Supported Protocol		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	nt	Alarm image transmission, FTP periodic transmission
			(When the FTP transmission is failed, backup on an optional
			SDXC/SDHC/SD memory card is available.)
	Maximum co	ncurrent access number	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD		H.264 recording: Manual REC / Alarm REC (Pre/Post) /
	Memory Card (Option)		Schedule REC / Backup upon network failure
	* Use the SD memory card		JPEG recording: Manual REC / Alarm REC (Pre/Post) / FTP error /
	manufactured by Panasonic		Backup upon network failure
	(SD speed class 4 orhigher), and in the case of SD Speed Class 10, that complies with		Compatible SD (SDHC/SDXC) card: Panasonic 2 GB, 4 GB*, 8 GB*,
			16 GB*, 32 GB*, 64GB** model
	UHS-1 (Ultra High Speed-1).		*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 TM mobile terminal
Alexan	Alarm Source		
Alarm	Alarm Actions		3 terminals input, VMD, Command alarm
	Alarm Actions		SDXC/SDHC/SD memory recording, E-mail notification,
	Alarm Log		Indication on browser, FTP image transfer, Panasonic protocol output
	Alarm Log		With SDXC/SDHC/SD memory card: 50,000 logs
	Schedule		Alarm / VMD / Access permission / H.264 recording / Scene file /
	Manitor Output (for adjustment)		FTP periodic image transmission
Input/	Monitor Output (for adjustment) Microphone/Line Input		VBS: 1.0 V [p-p] / 75 Ω, NTSC / PAL composite, RCA jack
Output			ø3.5 mm stereo mini jack
		e	Input impedance: Approx. 2 kΩ (unbalanced)
		For microphone	Recommended applicable microphone: Plug-in power type
		input	Supply voltage: 2.5 V ±0.5 V
			Recommended sensitivity of microphone:
			-48 dB±3 dB (0 dB=1 V/Pa, 1 kHz)
		For line input	Input level: Approx. –10 dBV
	Audio O	utput '5	ø3.5 mm stereo mini jack
	1		Output impedance: Approx. 600 Ω (unbalanced) / Output level: –20 dB\
			Can be used as the monitor output by switching browser GUI
	External	I/O Terminals	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT),
		I/O Terminals	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT)
General	External Safety	I/O Terminals	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
General	Safety	I/O Terminals	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
General		I/O Terminals	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 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB,
General	Safety	I/O Terminals	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 FCC (Par15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024
General	Safety EMC Power S	ource and	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UI (LIL69050-1, 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	Safety EMC Power S		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 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V: 1050 mA / Approx. 12.6 W PoE (IEEE802.3af compliant) /
General	Safety EMC Power S Power C	ource and consumption *6	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UI (LIL69050-1, 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	Safety EMC Power S Power C	ource and consumption '6 perating Temperature	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 FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V: 1050 mA / Approx. 12.6 W PoE (IEEE802.3af compliant) /
General	Safety EMC Power S Power C Ambient O Ambient O	ource and consumption '6 perating Temperature Operating Humidity	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UI (UIL0950-1, UIL60950-22), 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 t -45 °C t -49 °F to 122 °F} 10 to 90 % (no condensation)
General	Safety EMC Power S Power C Ambient O Ambient C Impact F	ource and consumption *6 perating Temperature Operating Humidity Protection	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL6950-1, UL69950-22), 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)
General	Safety EMC Power S Power C Ambient O Ambient C Impact F Water ar	ource and consumption 16 perating Temperature perating Humidity Protection	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UI (UIL0950-1, UIL60950-22), 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 t -45 °C t -49 °F to 122 °F} 10 to 90 % (no condensation)
General	EMC Power S Power C Ambient O Ambient C Impact F Water ar Dust Res	ource and consumption '6 perating Temperature Departing Humidity Protection and sistance '7	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UI (UL(059050-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1 ECC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V: 1050 mA / Approx. 12.6 W P0E (IEEE802.3af compliant) / P0E 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
General	Safety EMC Power S Power C Ambient O Ambient C Impact F Water ar	ource and consumption '6 perating Temperature Departing Humidity Protection and sistance '7	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL6950-1, UL69950-22), 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:
General	EMC Power S Power C Ambient O Ambient C Impact F Water ar Dust Res	ource and consumption '6 perating Temperature Departing Humidity Protection and sistance '7	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UI (UL(059050-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1 ECC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB, EN55022 ClassB, EN55024 DC12 V: 1050 mA / Approx. 12.6 W P0E (IEEE802.3af compliant) / P0E 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
General	EMC Power S Power C Ambient O Ambient C Impact F Water ar Dust Res	ource and consumption '6 perating Temperature Departing Humidity Protection and sistance '7	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL6950-1, UL69950-22), 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:
General	EMC Power S Power C Ambient O Ambient C Impact F Water ar Dust Res	ource and consumption '6 perating Temperature Departing Humidity Protection and sistance '7	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UI (LIL69950-1, UI.60950-22), C-UL (CAN/CSA C22.2 No.60950-1 ECC (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: a228 mm x 189 mm (H) (a8-31/32 inches x 7-7/16 inches (H)), Dome radius 80 mm (3-5/32 inches)
General _	EMC Power S Power C Ambient O Ambient C Impact F Water ar Dust Res	ource and consumption '6 perating Temperature Departing Humidity Protection and sistance '7	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) U.(U.(0950-1, 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: a228 mm x 189 mm (H) (a8-31/32 inches x 7-7/16 inches (H)), Dome radius 80 mm (3-5/32 inches) When using the base bracket:
General	EMC Power S Power C Ambient O Ambient C Impact F Water ar Dust Res	ource and consumption '6 perating Temperature Departing Humidity Protection and sistance '7	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UI (UIL09505-1, UIc0950-22), 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 : 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: ø228 mm x 225 mm (H) (ø8-31/32 inches x 8-27/32 inches (H))
General	Safety EMC Power S Power C Ambient O Ambient C Impact F Water ar Dust Re: Dimension	ource and consumption '6 perating Temperature Departing Humidity Protection and sistance '7 ons	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UI (LIL69950-1, UI.60950-22), C-UL (CAN/CSA C22.2 No.60950-1 EC (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: 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)
General T	EMC Power S Power C Ambient O Ambient C Impact F Water ar Dust Res	ource and consumption '6 perating Temperature Departing Humidity Protection and sistance '7 ons	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL6950-1, UL69950-22), 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: a228 mm x 189 mm (H) (a8-31/32 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) (a8-31/32 inches x 8-27/32 inches (H)) Dome radius 80 mm (3-5/32 inches) When using the base bracket: a228 mm x 225 mm (H) (a8-31/32 inches x 8-27/32 inches (H)) Dome radius 80 mm (3-5/32 inches) When using the attachment plate : Approx. 3.2 kg {7.05 lbs}
General	Safety EMC Power S Power C Ambient O Ambient O Impact F Water an Dust Re: Dimension	ource and consumption '6 perating Temperature Departing Humidity Protection and sistance '7 ons	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) IL (ILL6950-1, 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 :
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General	Safety EMC Power S Power C Ambient O Ambient O Impact F Water an Dust Re: Dimension	ource and consumption '6 perating Temperature Departing Humidity Protection and sistance '7 ons	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UL (UL6950-1, UL69950-22), 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 : 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: 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: a28 ms x 25 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: Approx. 3.7 kg {8.16 lbs} Main body : Aluminum die cast, light gray, Dome section : Clear polycarbonate resin
General	Safety EMC Power S Power C Ambient O Ambient O Impact F Water an Dust Re: Dimension	ource and consumption '6 perating Temperature Departing Humidity Protection and sistance '7 ons	ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT, DAY/NIGHT OUT) UI (LIL69950-1, UI.60950-22), C-UL (CAN/CSA C22.2 No.60950-1 EC. (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 : 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 tatachment plate : Approx. 3.2 kg {7.05 lbs} When using the tatachment plate : Approx. 3.7 kg {8.16 lbs} Main body : Aluminum die cast, light gray,

- Microsoft® Windows® 5.1, Microsoft® Windows® 8, 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](30)ps mode), or *12 mega pixel [4:3](15/ps 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
- "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

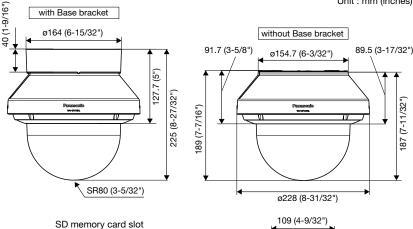
Unit: mm (inches)

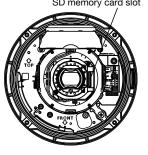
187

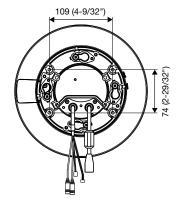
2 Data Matrix is our website address converted into a two-dimensional barcode. Depending on the scanning application used, the Data Matrix may not be able to be read correctly. In such case, directly enter the following URL.

http://security.panasonic.com/pss/security/support/qr_sp_select.html

Appearance







Standard Accessories

Important Information	1 pc.
Installation Guide	1 set
• CD-ROM *1	1 pc.
Code label *2	1 pc.
The following parts are used during installation	on procedures

(moves the camera to the "Wide" side)

Attachment plate1 pc.

• Fixing screws for attachment plate (M4 x 8 mm)

...... 5 pcs. (of them, 1 for spare) Template B (for the base bracket)1 sheet. • Bit (Hex wrench, screw size 6.35 mm {1/4 inches} T20) 1 pc. Waterproof tape1 pc.

 4P alarm cable1 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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Important

- Safety Precaution: Carefully read the Important Information, Installation Guide and operating instructions before using this product.
- Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network
- · Masses and dimensions are approximate. • Specifications are subject to change without notice.

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