

4K Vandal Resistant Weatherproof Network Camera WV-SPV781L



4K (3,840 x 2,160) H.264 Vandal Resistant Weatherproof 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: 101°(wide) to 18°(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.
- ABF (Auto Back Focus) ensures easy installation.
- 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 lens cover

Specifications

Speci	fications			
Camera	Image Sensor	1/1.7 type MOS image sensor		
	Effective Pixels	Approx. 12.4 mega pixels		
	Scanning Mode Scanning Area	Progressive scan		
	Minimum Illumination	7.40 mm (H) x 5.55 mm (V) {9/32 inches (H) x 7/32 inches (V)} 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) "1 Off / Auto (High / Mid / Low)		
	IR LED Light 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	Outdoor scene / Indoor scene (50 Hz)/ Indoor scene (60 Hz)/ Fix shutter		
	Maximum 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,		
	Shutter Speed	max. 6/30 s, max. 10/30 s, max. 16/30 s 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		
	·			
	Wide Dynamic Range Adaptive Black Stretch	On / Off On / Off (only when Wide dynamic range)		
	Fog compensation	On / Off (only when Wide dynamic range/ Adaptive black stretch: Off)		
	High light compensation(HLC) Gain (AGC)	On / Off (only when Wide Dynamic Range / Back light compensation (BLC) : Off) On (High) / On (Mid), On (Low) / Off		
	Day/Night (ICR)	Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)		
	Digital Noise Reduction Video Motion Detection (VMD)	High / Low On / Off, 4 areas available		
	Privacy Zone	On / Off (up to 8 zones available)		
	VIQS	On / Off (Max. 8 locations)		
	Camera Title (OSD) Focus Adjustment	On/ Off Up to 20 characters (alphanumeric characters, marks) ABF / 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) - 97 ° (WIDE) Vertical : 9.4 ° (TELE) - 55 ° (WIDE) [4 : 3 mode] Horizontal : 18 ° (TELE) - 101 ° (WIDE) Vertical : 13 ° (TELE) - 76 ° (WIDE)		
	Maximum Aperture Ratio	1 : 1.6 (WIDE) - 1 : 3.3 (TELE)		
Browser	Focusing Range	1.0 m - ∞		
GUI	Cropping	H.264(1) Ch1 - Ch4 Up to 4 image capture areas can be specified.		
		*only when Image capture mode : Cropping [16:9] (30fps mode)		
	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).		
	Digital Zaam	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 One Shot Capture	Reset A still picture will be displayed on a newly opened window.		
	Audio	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High		
	SD Memory	Audio Output : On / Off Volume adjustment : Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD		
	Data Download	memory card can be downloaded.		
	GUI/Setup Menu Language			
	System Log Supported OS *2	Up to 100 (Internal), Up to 4,000 (SDXC/SDHC/SD memory) error logs Microsoft® Windows® 8.1, Microsoft® Windows® 8,		
		Microsoft® Windows® 7, Microsoft® Windows Vista®		
	Supported Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),		
		Windows® Internet Explorer® 9 (32 bit),		
		Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit)		
Network	Network IF	10Base-T / 100Base-TX, RJ45 connector		
	Image Resolution*3	• 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		
		* "H.264(2)" and "JPEG(1)" can not be selected.		
		• 8 mega pixel [16:9] (15 fps mode) H.264(1): 3,840 x 2,160, up to 15 fps		
		H.264(2): 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 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 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 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		
		• 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(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		
		H.264(4): 640 x 360, up to 30 fps JPEG(2): 640 x 360		
		* "JPEG(1)" can not be selected.		
		Cropping [16:9] (30 fps mode) H.264(1): Ch1 1,280 x 720 / 640 x 360, up to 30 fps Cropping		
		H.264(1): Ch2 1,280 x 720 / 640 x 360, up to 30 fps Cropping		
		H.264(1): Ch3 1,280 x 720 / 640 x 360, up to 30 fps Cropping		
		H.264(1): Ch4 1,280 x 720 / 640 x 360, up to 30 fps Cropping H.264(2): 1,920 x 1,080 / 1,280 x 720 / 640 x 360 /320 x 180, up to 30 fps		
		JPEG(1): Enables the setting of the resolution in the same way as		
		for H.264 (2) or JPEG (2). JPEG(2): 640 x 360		
	H.264 Transmission priority	Constant bit rate / Variable bit rate / Frame rate / Best effort / Advanced VBR		
	Frame Rate <when bit="" rate,<="" td="" variable=""><td>1 / 3 / 5* / 7.5* / 10* / 12* / 15* / 20* / 30* fps * The frame rate is limited to "bit rate".</td></when>	1 / 3 / 5* / 7.5* / 10* / 12* / 15* / 20* / 30* fps * The frame rate is limited to "bit rate".		
	Frame 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.		

.264 PEG	Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality	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". When Constant bit rate or Best effort is selected> Low / Normal / Fine <when bit="" is="" rate="" selected="" variable=""> O Super Fine / 1 Fine / 2 / 3 / 4 / 5 Normal / 6 / 7 / 8 / 9 Low 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s</when>	
PEG	Refresh Interval Transmission Type	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". <when best="" bit="" constant="" effort="" is="" or="" rate="" selected=""> Low / Normal / Fine <when bit="" is="" rate="" selected="" variable=""> 0 Super Fine / 1 Fine / 2 / 3 / 4 / 5 Normal / 6 / 7 / 8 / 9 Low 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s</when></when>	
PEG	Refresh Interval Transmission Type	* The available range of the H.264 bit rate varies depending on the setting selected for "image capture size". When Constant bit rate or Best effort is selected> Low / Normal / Fine <when bit="" is="" rate="" selected="" variable=""> O Super Fine / 1 Fine / 2 / 3 / 4 / 5 Normal / 6 / 7 / 8 / 9 Low 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s</when>	
PEG	Refresh Interval Transmission Type	the setting selected for "image capture size". <when best="" bit="" constant="" effort="" is="" or="" rate="" selected=""> Low / Normal / Fine When Variable bit rate is selected> 0 Super Fine / 1 Fine / 2 / 3 / 4 / 5 Normal / 6 / 7 / 8 / 9 Low 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s</when>	
PEG	Refresh Interval Transmission Type	<when best="" bit="" constant="" effort="" is="" or="" rate="" selected=""> Low / Normal / Fine <</when>	
PEG	Refresh Interval Transmission Type	Low / Normal / Fine <when bit="" is="" rate="" selected="" variable=""> 0 Super Fine / 1 Fine / 2 / 3 / 4 / 5 Normal / 6 / 7 / 8 / 9 Low 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s</when>	
PEG	Transmission Type	<when bit="" is="" rate="" selected="" variable=""> 0 Super Fine /1 Fine /2 /3 /4 /5 Normal /6 /7 /8 /9 Low 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s</when>	
PEG	Transmission Type	0 Super Fine / 1 Fine / 2 / 3 / 4 / 5 Normal / 6 / 7 / 8 / 9 Low 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s	
PEG	Transmission Type	0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s	
PEG	Transmission Type		
PEG		Unicast / Multicast	
Lu		10 steps	
	Refresh Interval		
		(JPEG frame rate will be restricted when displaying both JPEG and H.264 images.)	
	Transmission Type	Pull / Push	
Audio Compression		G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC*4	
		64 kbps / 96 kbps / 128 kbps	
Audio transmission/		Off / Mic (Line) input / Audio output / Interactive (Half duplex) /	
ception	า	Interactive (Full duplex)	
uthenti	cation 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 Client		Alarm image transmission, FTP periodic transmission	
		(When the FTP transmission is failed, backup on an optional	
		SDXC/SDHC/SD memory card is available.)	
		Up to 14 users (Depends on network conditions)	
		H.264 recording: Manual REC / Alarm REC (Pre/Post) /	
		Schedule REC / Backup upon network failure	
		JPEG recording: Manual REC / Alarm REC (Pre/Post) / FTP error /	
D speed	class 4 orhigher),	Backup upon network failure	
and in the case of SD Speed		Compatible SD (SDHC/SDXC) card: Panasonic 2 GB, 4 GB*, 8 GB*,	
ass 10, t 4S-1/Ulh	hat complies with a High Speed-1)	16 GB*, 32 GB*, 64GB** model	
		*SDHC card, ** SDXC card (except miniSD card and microSD card)	
		JPEG image, AUX control (by access level)	
		iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile terminals	
Alarm Actions		3 terminals input, VMD, Command alarm	
		SDXC/SDHC/SD memory recording, E-mail notification,	
		Indication on browser, FTP image transfer, Panasonic protocol output	
Schedule		With SDXC/SDHC/SD memory card: 50,000 logs	
		Alarm / VMD / Access permission / H.264 recording / Scene file / FTP periodic image transmission	
onitor (Output	VBS: 1.0 V [p-p] / 75 Ω, NTSC / PAL composite,	
		RCA jack	
		ø3.5 mm stereo mini jack Input impedance: Approx. 2 kΩ (unbalanced)	
		Recommended applicable microphone: Plug-in power type	
		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	
		ø3.5 mm stereo mini jack	
		Output impedance: Approx. 600 Ω (unbalanced) / Output level: -20 dBV	
External I/O Terminals		Can be used as the monitor output by switching the audio/monitor output plug.	
		ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT),	
		ALARM IN3 (AUX OUT, DAY/NIGHT OUT)	
afety		UL (UL60950-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1	
MC		FCC (Part15 ClassA), ICES003 ClassA, EN55023 ClassB,	
		EN55022 ClassB, EN55024	
		DC12 V: 1050 mA / Approx. 12.6 W	
Power Consumption *7		PoE (IEEE802.3af compliant) /	
Ambient Operation Towns		PoE DC48 V: 265 mA / Approx. 12.95 W (Class 0 device)	
Ambient Operating Temperature		-45 °C to +50 °C {-49 °F to 122 °F}	
1	perating Humidity	10 to 90 % (no condensation) Compliant with IK10 (IEC 62262)	
nbient C	rotection	Compliant with IK10 (IEC 62262)	
nbient C	rotection Dust Resistance *8		
nbient C npact P ater and	Dust Resistance *8	Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant	
nbient C	Dust Resistance *8	Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When directly mounting the camera to a ceiling or wall	
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nbient C npact P ater and	Dust Resistance *8	Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When directly mounting the camera to a ceiling or wall 131 mm {5-5/32 inches} (W), 130 mm {5-1/8 inches} (H), 380 mm {1ft 2-31/32 inches} (D) When using the adapter box	
nbient C npact P ater and	Dust Resistance *8	Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When directly mounting the camera to a ceiling or wall 131 mm {5-5/32 inches} (W), 130 mm {5-1/8 inches} (H), 380 mm {1ft 2-31/32 inches} (D) When using the adapter box 133 mm {5-1/4 inches} (W), 133 mm {5-1/4 inches} (H),	
mbient C npact P ater and imension	Dust Resistance *8 ons	Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When directly mounting the camera to a ceiling or wall 131 mm {5-5/32 inches} (W), 130 mm {5-1/8 inches} (H), 380 mm {1ft 2-31/32 inches} (D) When using the adapter box 133 mm {5-1/4 inches} (W), 133 mm {5-1/4 inches} (H), 420 mm {1ft 4-17/32 inches} (D)	
nbient C npact P ater and	Dust Resistance *8 ons	Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When directly mounting the camera to a ceiling or wall 131 mm {5-5/32 inches} (W), 130 mm {5-1/8 inches} (H), 380 mm {1ft 2-31/32 inches} (D) When using the adapter box 13mm {5-1/4 inches} (W), 133 mm {5-1/4 inches} (H), 420 mm {1ft 4-17/32 inches} (D) When directly mounting the camera to a ceiling or wall : Approx. 2.6 kg {5.73 lbs}	
nbient C npact P ater and imension	Dust Resistance *8 ons	Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When directly mounting the camera to a ceiling or wall 131 mm (5-5/32 inches) (W), 130 mm (5-1/8 inches) (H), 380 mm (1ft 2-31/32 inches) (D) When using the adapter box 133 mm (5-1/4 inches) (W), 133 mm (5-1/4 inches) (H), 420 mm (1ft 4-17/32 inches) (D) When directly mounting the camera to a ceiling or wall : Approx. 2.6 kg (5.73 lbs) When using the adapter box : Approx. 3.1 kg (6.82 lbs)	
mbient C npact P ater and imension	Dust Resistance *8 ons	Main body: IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant When directly mounting the camera to a ceiling or wall 131 mm {5-5/32 inches} (W), 130 mm {5-1/8 inches} (H), 380 mm {1ft 2-31/32 inches} (D) When using the adapter box 13mm {5-1/4 inches} (W), 133 mm {5-1/4 inches} (H), 420 mm {1ft 4-17/32 inches} (D) When directly mounting the camera to a ceiling or wall : Approx. 2.6 kg {5.73 lbs}	
	ceptior thentiful properties of the properties o	ception Athentication for Audio Athentication for Audio Apported Protocol TP Client DXC/SDHC/SD emory Card (Option) Ise the SD memory card anufactured by Panasonic D speed class 4 orhigher), di In the case of SD Speed ass 10, that complies with St-10thra High Speed-1). SILUITA HIGH Speed-1). SILUITA Phone Compatibility-5 arm Actions arm Log Chedule Conitor Output Or adjustment) icrophone/Line Input For microphone Input For line input Acternal I/O Terminals afety MC Dower Source and	

- Polycarbonate resin, Clear (with rain wash coating)

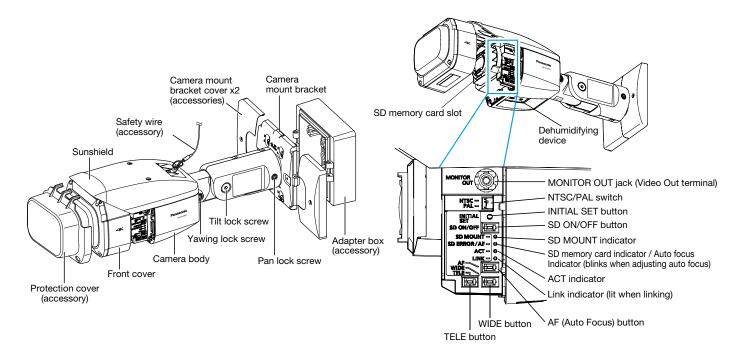
 1 Converted value
 2 For further information about PC system requirements and precautions for when using Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, or Windows Internet Explorer, click "Manual" "Open" from the supplied CD-ROM and refer to "Notes on Windows® / Internet Explorer® versions".
 3 To display the 4K resolution images in 4K monitor, graphics board equipped with a display port and display port cable are required. For further information about the recommended graphic card, refer to our web site (http://security.panasonic.com/pss/security/support/info.html).
 4 AAC-LC (Advanced Audio Coding Low Complexity) is only used when recording audio on a SD memory card.
 5 For further information about compatible devices, refer to our website above.
 6 In order to be able to switch the monitor output, "8 mega pixel [16:9](15 fps mode)", "5 mega pixel [4:3](30 fps mode)", or "12 mega pixel [4:3](15 fps mode)" must be selected for "Image capture mode".
 For information about usage limitations, refer to "2.3.1 Configure the basic settings [Basic]"

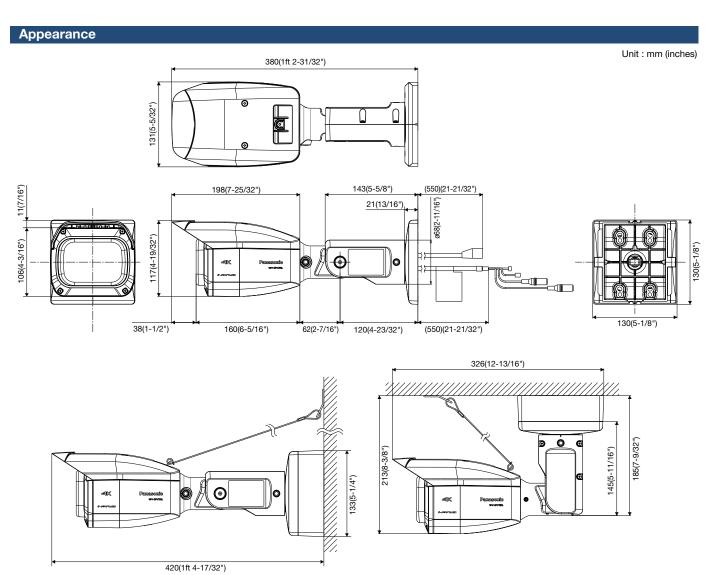
- For information about usage limitations, refer to "2.3.1 Configure the basic settings [Basic]" in the "Operating Instructions".
- in the "Operating Instructions".

 7 Refer to our website (http://security.panasonic.com/pss/security/support/info.html) for further information about Power source and Power consumption information.

 8 Only when installation work is properly performed according to the instructions in this book and appropriate waterproof treatment is performed.

Camera	Adjustment		Wall mounting	Ceiling mounting	
mount	angle	Horizontal	±115° (TILT rotation part)*	±180° (PAN rotation part)	
bracket	_	Vertical	±115° (TILT rotation part)*	0° to 115° (TILT rotation part)	
		Yaw	from -115° to +200 (YAW rotation part)	from -115° to +200 (YAW rotation part)	
			* You can change between horizontal and vertical angles by adjusting the PAN rotation		
	Dimensions		125 mm (W), 125 mm (H) {4-15/1	6 inches (W), 4-15/16 inches (H) }	
			(Camera mount bracket installation section)		
	Finish		Aluminum die cast, metallic silv	er	





Standard Accessories

Important Information 1 pc Installation Guide 1 se	
The following parts are used during installation procedures. • Camera mount bracket cover	
3 pcs. (of them, 1 for spar	re)
Safety wire	٥.
Safety wire lug	٥.
• Wire lug fixing screw (M3 x 10 mm {3/8 inches}) 2 pcs. (of them, 1 for spar	re)
Waterproof tape	: .
• 4P alarm cable	; .
• 2P power cable	۲.
• LAN cable cover	٤.
MONITOR OUT conversion plug *3	; <u>.</u>

• CD-ROM *1	1 pc.
Code label *2	1 pc.
Protection cover	1 pc.
Adapter box	
• Mounting screws for adapter box (M5 × 20 mm {13/16 inches})	· · · · · · · · · · · · · · · · · · ·
	hem, 1 for spare)
Adapter box mounting screw (M4 × 35 mm {1- 3/8 inches})	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.

Trademarks and registered trademarks

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

 Android is a trademark of Google Inc.

 "I-PRO SmartHD" logo is trademarks or registered trademarks of Panasonic Corporation.

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

 ONVIF and the ONVIF logo are trademarks of ONVIF Inc.

 Important

 Stoky Preservation: Confully read the Important Information, Installation Guide and operation.

- 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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