

360-degree Vandal Resistant Outdoor Dome 9 Megapixel Network Camera WV-SFV481



"i-VMD Type3: Intruder detection / Object detection / Cross line detection / Loitering detection / Scene change detection / Heat-map / People Counting / MOR(Moving Object Remover)

High resolution, sensitivity, and built-in intelligent features

Key Features

- 360° monitoring with a wide variety of transmission modes: Panorama, Double Panorama, Quad PTZ, Single PTZ, and Quad streams (H.264)
- 9 Megapixel images up to 15 fps.
- VIQS (Variable Image Quality on Specified area) technology allows
 the designated eight areas to retain higher image quality while the
 excluded area will have a decreased image quality, which enables to
 use lower image file size and bit rate. Only for fisheye image.
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new 4K ULTRA HD engine.
- Smooth PTZ operation without mechanical action
- Built-in distortion correction function
- A fisheye lens control function realizes intelligible screen operation intuitively.
- Smartphone monitoring : Direct camera control from smartphone
- Wide dynamic range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range.
- Smart coding Technology: Group of Pictures (GOP) control function removes unnecessary information from the frame for realizing efficient encoding.
 Auto VIQS (Variable Image Quality on Specified area) function recognizes the no movement area in a video automatically and lowering the resolution of it to reduce the data size.

GOP control and **Auto VIQS** can save the network bandwidth and the disk space of recorder effectively.

- High sensitivity with Day/Night (ICR*) function: 0.3 lx (Color), 0.04 lx (B/W) at F1.9
 ICR: IR Cut filter Removal
- Built-in ABF enables automatic focus adjustment for sharp image both in color and B/W modes, and corrects the focus shift that caused by temperature difference.

You can install the camera even in the environment having drastic changes in temperature without focal blur.

- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- Progressive scan ensures clear images with less motion blur and no tearing even when the subject is moving.
- Superior color reproduction by primary (RGB) color filter.
- Electronic sensitivity enhancement : Auto (Up to 16x) / OFF
- Selectable light control modes :

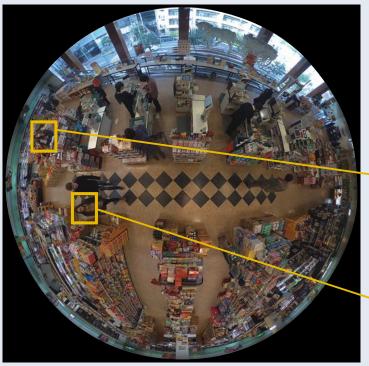
Indoor scene (50 Hz) / Indoor scene (60 Hz) / ELC (maximum exposure time) Indoor scene (50 Hz / 60 Hz) : Flicker caused by fluorescent lightning will be automatically compensated.

ELC (maximum exposure time): The lightning control will be automatically performed by adjusting shutter speed in the range of ELC.

VMD (Video Motion Detector) 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. Configurable only on the fisheye image.
- 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, HTTP notification, and Panasonic protocol output.
- Full duplex bi-directional audio allows interactive communication between camera site and monitoring site.
- Prioritized stream control: One of the video streams can be prioritized when multiple recorders or client PCs are accessing the camera so that the recorder or the client PC can maintain the frame rate.
- SDXC/SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- Can be added new intelligent extension software (Extension software) in addition to built- in VMD (Video Motion Detection), alarm function.
- Intelligent function (Extension software) such as Intruder / Loitering / Scene change / Object / Cross line detection,
 People Counting (Cross line), MOR(Moving Object Remover)
 Function, Heat-map (High Traffic Zone / Long-stay Zone)
- Super Chroma Compensation function realizes a better color
- H.264 max. bit rate/client and Total bit rate control allows flexible network traffic management. Frame rate priority mode controls bit rate and compression ratio to provide the specified frame rate.
- Internet mode: H.264 images can be transmitted over HTTP protocol.
- Multi-language: English / Italian / French / German / Spanish / Portuguese / Russian / Chinese / Japanese
- IPv4/IPv6 protocol supported
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- IP66 rated water and dust resistant.
 Compatible with IEC60529 measurement standard,
 Type 4X(UL50), NEMA 4X compliant.
- Dehumidification device for use in various weather conditions
- Operating temperature -40 °C to +50 °C (-40 °F to 122 °F)
- · Vandal resistant mechanism for high reliability
- "Railway applications Electronics equipment used on rolling stock" compatible with EN50155-T3, EN50121, DIN5510
- Low profile design for discrete installation
- ONVIF compliant model





9M (3K \times 3K) high-resolution performance enables sharp rendering of objects and people's faces at the edge sections of the fisheye image.

8 m



4 m



*Sample screen from 9 Megapixel Fisheye mode

Double Panorama mode







Quad PTZ mode



Single PTZ mode



Specifications

Camera	Image Se		1/2 type MOS image sensor, Built-in primary color filter
	Scanning		Progressive
	Scanning Area Minimum Illumination		5.54 mm(H) × 5.54mm (V) (7/32 inches (H) × 7/32 inches (V)) Color: 0.3 lx (F1.9, Maximum shutter: Off (f/30 s), AGC: High) Color: 0.02 lx (F1.9, Maximum shutter: max. 16/30 s, AGC: High)* BW : 0.04 lx (F1.9, Maximum shutter: Off (f/30 s), AGC: High)* BW : 0.03 lx(F1.9, Maximum shutter: Max. 16/30 s, AGC: High)*
	White Balance		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)
	Light Control Mode Maximum shutter Wide dynamic range		Indoor scene (50 Hz / 60 Hz) / ELC max. 1/10000 s, max. 1/4000 s, max. 1/2000 s, 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. 3/120 s, max. 3/100 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
		Black Stretch	On / Off (only when Wide Dynamic range : Off)
	AGC		On(High) / On(Mid) / On(Low) / Off
	Day/Night (ICR) Digital Noise Reduction		Off / On / Auto1(Normal) / Auto2(IR Light) / Auto3(SCC) High / Low
	Video Motion Detection		On / Off, 4 areas available
	Number of the		16 Preset can only be used when the image type is
	preset positions Auto mode		Quad PTZ or Single PTZ. Auto pan/ Preset sequence
	Self return		Auto mode can only be used when the image type is Quad PTZ or Single PTZ 10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 min Self return can only be used when the image type is Quad PTZ or Single PTZ
	Privacy Zone VIQS		On / Off (up to 8 zones available) On / Off (up to 8 zones) Only for fisheye image.
	Camera Title (OSD)		On / Off Up to 20 characters (alphanumeric characters, marks) * You can specify characters to be displayed on each of the four
	Back focus		screens when "Quad streams" is selected. Auto back focus / Focus / Adjusting method (Auto/ Preset/ Fix
	Video analytics		Optional Alarm: Intruder detection, Object detection, Cross line detection Loitering detection, Scene change detection Others: Heat-map, People Counting, MOR[Moving Object Remove
	Rotation		* Alarm and others don't work as the same time. mechanical: -45° to 45°, electrical: Panorama/Double Panorama: 90°,180°, 270°, Fisheye: N/A
Lens	Focal Le	ngth	1.38 mm {1/16 inches}
	Angular Field of View		Horizontal: 180° Vertical: 180°
	Maximum Aperture Ratio		1:1.9 ±45°
	Adjusting angle Image rotation		Mechanical Image rotation, about every 3.3°
Browser	Camera	Control	Brightness, AUX On / Off
GUI	Display Mode		Spot, Quad: Image from 16 cameras can be displayed in 4 different Qua screens or 16 split screen (JPEG only). 20 characters camera title available.
	Zoom Camera Title		electronic zoom 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 Capture		Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High
	SD Memory Data		Still or motion Images recorded in the SDXC/SDHC/SD
	Download		memory card can be downloaded.
	GUI/Setup Menu Language		English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
	System I		Up to 100 (Internal), Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs
	Supported OS*2		Microsoft® Windows® 8.1 Microsoft® Windows® 8 Microsoft® Windows® 7
	Supported Browser		Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit) Windows® Internet Explorer® 10 (32 bit) Windows® Internet Explorer® 9 (32 bit)
			Windows® Internet Explorer® 8 (32 bit) Windows® Internet Explorer® 7 (32 bit)
Network	Network	IF	10Base-T / 100Base-TX, RJ45 connector
		<ceiling> <wall></wall></ceiling>	*9M Fisheye mode (Factory default mode) max.15 fps 2992×2992 / 1280×1280 / 640×640 / 320×320 *4M Fisheye mode max.30 fps
		<ceiling></ceiling>	2048×2048 / 1280×1280 / 640×640 / 320×320 •Double Panorama mode max.15 fps 2560×1440 / 1920×1080 / 1280×720 / 640×360 / 320×180 •Quad PTZ / Single PTZ mode max.15 fps
	Resolution: H.264 JPEG (MJPEG)		2560×1920 / 2048×1536 / 1600×1200 / 1280×960 / 800×600 / 640×480 / 320×240 •8M Fisheye + Double Panorama mode max.7.5 fps
			(Fisheye) 2816x2816 / 1280x1280 / 640x640 / 320x320 (Double Panorama)1280x720 / 640x360 *4M Fisheye + Double Panorama mode max.15 fps (Fisheye) 2048x2048 / 1280x1280 / 640x640 / 320x320
			(Double Panorama)1280×720 / 640×360 •8M Fisheye + Quad PTZ mode max.7.5 fps (Fisheye) 2816×2816 / 1280×1280 / 640×640 / 320×320
			(Quad PTZ) 1280×960 / 800×600 / 640×480 •4M Fisheye + Quad PTZ mode max.15 ps (Fisheye)2816×2816 / 1280×1280 / 640×640 / 320×320 (Quad PTZ) 1280×960 / 800×600 / 640×480 •Quad streams mode (H.264 only)
		<wall></wall>	(Ch1 - Ch4) 1280×960 / 800×600 / 640×480 / 320×240 max.15 fps (Quad PTZ) 2560×1920 / 2048×1536 / 1280×960 / 800×600 / 640×480 / 320×240 max.5 fps
		VVCII/2	Panorama mode max.15 fps 2560×1440 / 1920×1080 / 1280×720 / 640×360 / 320×180 Quad PTZ / Single PTZ mode max.15 fps 2560×1920 / 2048×1536 / 1600×1200 / 1280×960 / 800×600 / 640×480 / 320×240 *8M Fisheye + Panorama mode max.7.5 fps (Fisheye) 2816×2816 / 1280×1280 / 640×640 / 320×320
			(Panorama) 1280×720 / 640×360 •4M Fisheye + Panorama mode max.15 fps (Fisheye) 2048×2048 / 1280×1280 / 640×640 / 320×320 (Panorama) 1280×720 / 640×360

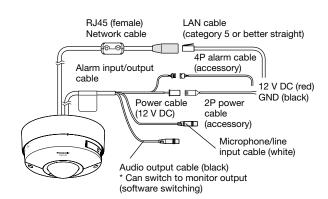
Network	H.264*3	Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort / Advanced VBR
Image		Frame Rate	<when advanced="" frame="" is="" rate="" selected="" vbr=""></when>
compression			1 fps/ 3 fps/ 5 fps*/ 7.5 fps*/ 10 fps*/ 12 fps*/ 15 fps*/ 20 fps*/ 30 fps*
method			* "Frame rate*" is limited to "Bit rate". When a value with an asterisk (*) on the right of it is selected, the actual frame rate may be
			lower that the value selected.
		Max Bit Rate/	64 kbps / 128 kbps* / 256 kbps* / 384 kbps* / 512 kbps* / 768 kbps* /
		Client	1024 kbps* / 1536 kbps* / 2048 kbps* / 3072 kbps* / 4096 kbps* /
			6144 kbps* / 8192 kbps* / 10240 kbps* / 12288 kbps* / 14336 kbps* /
			16384 kbps* / 20480 kbps* / 24576 kbps* / 30720 kbps*
			* The available range of the H.264 bit rate varies depending on the setting selected for "Image capture size".
		Image Quality	<when best="" bit="" constant="" effort="" is="" rate="" selected=""> Low/ Normal/ Fine</when>
			<when is="" selected="" vbr=""> 0 SUPER FINE / 1 FINE / 2 / 3 / 4 /</when>
		0 10 5	5 NORMAL / 6 / 7 / 8 / 9 LOW
		Smart Coding mode Transmission Type	On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected) Unicast / Multicast
	JPEG	Image Quality	0 SUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps : 0-9)
	(MJPEG)	T T	Pull / Push
		Transmission	0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying
	1 11 0	interval	both JPEG and H.264 images.)
Network	Audio Compression		G.726 (ADPCM) 32 kbps/16 kbps, G.711 64 kbps / AAC-LC ^{*4} 64kbps / 96kbps / 128kbps
	Total Bit Rate		Unlimited / 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 /
			4,096 / 8,192 kbps
	Supported Protocol		IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP,
			SNMP, DHCPv6, 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
			SD memory card is available.)
	No. of Simultaneous Users		Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD		SD (SDHC/SDXC) card: Panasonic 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB** model
	Memory Card (Option)		*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Cellular Phone Compatibility		JPEG image, AUX control (by access level)
	Mobile Terminal Compatibility		iPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminals
Alarm	Alarm Source		3 terminals input, VMD, Command alarm
	Alarm Actions		SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, FTP image transfer,
			Panasonic protocol output
	Alarm Log		With SDXC/SDHC/SD memory card :
			Up to 50,000 logs for each SD memory card
,	Schedule		Alarm / VMD / Access permission / H.264 recording / Scene file
Input/ Output	Monitor output *5		VBS: 1.0 V [p-p]/75 Ω, composite, ø3.5 mm mini jack (monaural) An NTSC or PAL monitor can be connected to the camera
Output			(the monitor type can be changed by the software).
			Audio out or monitor out can be selected for
			the audio/monitor output plug
	Microph	one/Line Input	ø3.5 mm stereo mini jack, Input impedance : Approx. 2 kΩ Recommended applicable microphone : Plug-in power type
		For microphone input	Supply voltage: 2.5 V ±0.5 V
		Input	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		ø3.5 mm stereo mini jack
	Audio O		ø3.5 mm stereo mini jack Output impedance : Approx. 600 Ω (unbalanced)
			ø3.5 mm stereo mini jack
	External	utput I/O Terminals	
General	External	utput	a3.5 mm stereo mini jack Output impedance : Approx. 600 Ω (unbalanced) Output level : -20 dBV ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT) Ceiling / Wall
General	External Mounting Safety	utput I/O Terminals	e3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) Output level :-20 dBV ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT) Ceiling / Wall UL (UL69950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1
General	External	utput I/O Terminals	o3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) Output level :-20 dBV ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT) Ceiling / Wall U (UL69950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB,
General	External Mounting Safety EMS	utput I/O Terminals	e3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) Output level :-20 dBV ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT) Ceiling / Wall UL (UL69950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1
General	External Mounting Safety EMS Power S	I/O Terminals	o3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) Output level : -20 dBV ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT) Ceiling / Wall U (UL69950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 DC 12 V, PoE (IEEE802.3af compliant) / DC 12 V : 910 mA / Approx. 10.9 W
General	External Mounting Safety EMS Power S Power C	I/O Terminals g method cource and consumption	3.5 mm stereo mini jack Output impedance : Approx. 600 Ω (unbalanced) Output level :-20 dBV ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT) Ceiling / Wall UL (UL60950-1), C-UL (CAN/CSA C22.2 No 60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55022 DC 12 V, PoE (IEEE802.3af compliant) / DC12 V : 910 mA / Approx. 10.9 W PoE DC 48 V : 200 mA / Approx. 9.6 W (Class 0 device)
General	External Mounting Safety EMS Power S Power C Ambient Op	I/O Terminals g method cource and consumption perating Temperature	Ø.5 mm stereo mini jack Output impedance : Approx. 600 Ω (unbalanced) Output level : -20 dBV ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT) Ceiling / Wall UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55022 DC 12 V, PoE (IEEE802.3af compliant) / DC 12 V : 910 mA / Approx. 10.9 W POE DC 48 V : 200 mA / Approx. 9.6 W (Class 0 device) -40 °C to +50 °C (-40 °F to 122 °F)
General	External Mounting Safety EMS Power S Power C Ambient Of	I/O Terminals g method ource and consumption perating Temperature	
General	External Mounting Safety EMS Power S Power C Ambient Of	I/O Terminals g method cource and consumption perating Temperature	Ø.5 mm stereo mini jack Output impedance : Approx. 600 Ω (unbalanced) Output level : -20 dBV ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT) Ceiling / Wall UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55022 DC 12 V, PoE (IEEE802.3af compliant) / DC 12 V : 910 mA / Approx. 10.9 W POE DC 48 V : 200 mA / Approx. 9.6 W (Class 0 device) -40 °C to +50 °C (-40 °F to 122 °F)
General	External Mounting Safety EMS Power S Power C Ambient Of Ambient C Water and	I/O Terminals g method ource and consumption perating Temperature Operating Humidity I Dust Resistance*	e3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) Output level : -20 dBV ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT) Ceiling / Wall UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 DC 12 V, POE (IEEE802.3af compliant) / DC12 V : 910 mA / Approx. 10.9 W POE DC 48 V : 200 mA / Approx. 9.6 W (Class 0 device) -40 °C to +50 °C (-40 °F to 122 °F) 10% to 90 % (no condensation) IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant Compliant with 50J (IEC 60068-2-75 / IK10 (IEC 62262)
General	External Mounting Safety EMS Power S Power C Ambient O Ambient O Water and Shock R Railway	I/O Terminals g method ource and consumption perating Temperature perpending Humidity I Dust Resistance 6 Application	0.3.5 mm stereo mini jack Output impedance : Approx. 600 Ω (unbalanced) Output level :-20 dBV ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT) Ceiling / Wall UL (UL60950-1), C-UL (CAN/CSA C2.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55022 DC 12 V, PoE (IEEE802.3af compliant) / DC12 V : 910 mA / Approx. 10.9 W PoE DC 48 V : 200 mA / Approx. 10.9 W PoE DC 48 V : 200 mA / Approx. 9.6 W (Class 0 device) -40 °C to +50 °C (-40 °F to 122 °F) 10% to 90 % (no condensation) IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant With 50J (IEC 60068-2-75 / IK10 (IEC 62262) EN50155-T3, EN50121, DINS510
General	External Mounting Safety EMS Power S Power C Ambient Of Ambient C Water and	I/O Terminals g method ource and consumption perating Temperature perpending Humidity I Dust Resistance 6 Application	0.3.5 mm stereo mini jack Output impedance : Approx. 600 Ω (unbalanced) Output level :-20 dBV ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT) Ceiling / Wall UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 FC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55022 DB (CassA), ICES003 ClassA, EN55022 ClassB, EN55024 DC 12 V, PoE (IEEE802.3af compliant) / DC12 V :910 mA / Approx. 10.9 W (Class 0 device) -40 °C to +50 °C (-40 °F to 122 °F) 10% to 90 % (no condensation) IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant Compliant with 50J (IEC 60068-2-75 / IK10 (IEC 62262) EN50155-T3, EN50121, DIN5510 When using the attachment plate :
General	External Mounting Safety EMS Power S Power C Ambient O Ambient O Water and Shock R Railway	I/O Terminals g method ource and consumption perating Temperature perpending Humidity I Dust Resistance 6 Application	Ø.3.5 mm stereo mini jack Output impedance: Approx. 600 Ω (unbalanced) Output level : -20 dBV ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT) Ceiling / Wall UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 DC 12 V, PoE (IEEE802.3af compliant) / DC12 V : 910 mA / Approx. 10.9 W POE DC 48 V : 200 mA / Approx. 9.6 W (Class 0 device) -40 °C to +50 °C (-40 °F to 122 °F) 10% to 90 % (no condensation) IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant Compliant with 50J (IEC 60068-2-75 / IK10 (IEC 62262) EN50155-T3, EN50121, DIN5510 When using the attachment plate : o154 mm × 60.5 mm (H) {66-1/16 inches × 2-3/8 inches (H)}
General	External Mounting Safety EMS Power S Power C Ambient O Ambient O Water and Shock R Railway	I/O Terminals g method ource and consumption perating Temperature perpending Humidity I Dust Resistance 6 Application	0.3.5 mm stereo mini jack Output impedance : Approx. 600 Ω (unbalanced) Output level :-20 dBV ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT) Ceiling / Wall UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 FC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55022 DB (CassA), ICES003 ClassA, EN55022 ClassB, EN55024 DC 12 V, PoE (IEEE802.3af compliant) / DC12 V :910 mA / Approx. 10.9 W (Class 0 device) -40 °C to +50 °C (-40 °F to 122 °F) 10% to 90 % (no condensation) IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant Compliant with 50J (IEC 60068-2-75 / IK10 (IEC 62262) EN50155-T3, EN50121, DIN5510 When using the attachment plate :
General	External Mounting Safety EMS Power S Power C Ambient O Ambient O Water and Shock R Railway	I/O Terminals g method ource and consumption perating Temperature perpending Humidity I Dust Resistance 6 Application	Ø.5. mm stereo mini jack Output impedance : Approx. 600 Ω (unbalanced) Output level : -20 dBV ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT), ALARM IN3 (AUX OUT) Ceiling / Wall UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 DC 12 Y, PoE (IEEE802.3af compliant) / DC12 V : 910 mA / Approx. 10.9 W POE DC 48 V : 200 mA / Approx. 9.6 W (Class 0 device) -40 °C to +50 °C (-40 °F to 122 °F) 10% to 90 % (no condensation) IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant Compliant with 50J (IEC 60068-2-75 / IK10 (IEC 62262) EN50155-T3, EN50121, DINS510 When using the attachment plate : ø154 mm × 60.5 mm (H) {ø6-1/16 inches × 2-3/8 inches (H)} Dome radius 35 mm {1-3/8 inches} When using the base bracket: ø164 mm × 96.5 mm (H) {ø6-15/32 inches × 3-13/16 inches (H)}
General	External Mountin Safety EMS Power S Power C Ambient O Water and Shock R Railway Dimension	I/O Terminals g method cource and consumption perating Temperature perperating Humidity I Dust Resistance® Application ons	G3.5 mm stereo mini jack
General	External Mounting Safety EMS Power S Power C Ambient O Ambient O Water and Shock R Railway	I/O Terminals g method cource and consumption perating Temperature perperating Humidity I Dust Resistance® Application ons	$ \begin{aligned} & 0.3.5 \text{ mm stereo mini jack} \\ & \text{Output impedance : Approx. 600 } \Omega \text{ (unbalanced)} \\ & \text{Output level} & : -20 \text{ dBV} \\ & \text{ALARM IN1 (DAY/NIGHT IN), ALARM IN2 (ALARM OUT),} \\ & \text{ALARM IN3 (AUX OUT)} \\ & \text{Ceiling / Wall} \\ & \text{UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1} \\ & \text{FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB,} \\ & \text{EN55024} \\ & \text{DC 12 V, PoE (IEEE802.3af compliant) /} \\ & \text{DC 12 V : 910 mA / Approx. 10.9 W} \\ & \text{POE DC 48 V : 200 mA / Approx. 19.6 W (Class 0 device)} \\ & -40 °C to +50 °C (-40 °F to 122 °F) \\ & 1096 to 90 % (no condensation)} \\ & \text{IP66, IEC60529 measuring standard compatible, Type 4X(UL50),} \\ & \text{NEMA 4X compliant} \\ & \text{Compliant with 50J (IEC 60068-2-75 / IK10 (IEC 62262)} \\ & \text{EN50155-T3, ENS0121, DIN5510} \\ & \text{When using the attachment plate :} \\ & \text{a154 mm } \times 60.5 \text{ mm (H) (66-1/16 inches } \times 2-3/8 \text{ inches (H))} \\ & \text{Dome radius 35 mm (1-3/8 inches)} \\ & \text{When using the base bracket: a164 mm } \times 96.5 \text{ mm (H)} \\ & \text{(66-15/32 inches} \times 3-13/16 inches (H))} \\ & \text{Dome radius 35 mm (1-3/8 inches)} \\ & \text{When using the attachment plate : Approx. 860 g (1.90 lbs)} \\ \end{aligned}$
General	External Mountin Safety EMS Power S Power C Ambient O Water and Shock R Railway Dimension	I/O Terminals g method cource and consumption perating Temperature perperating Humidity I Dust Resistance® Application ons	G3.5 mm stereo mini jack

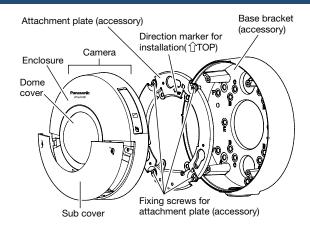
- *1 Converted value
- *2 Refer to "Notes on Windows Vista® / Windows® 7 / Windows® 8 / Windows® 8.1" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 8.1 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.

- Transmission for 2 streams can be individually set.

 '4 When recording audio on an SD memory card,
 only AAC-LC (Advanced Audio Coding Low Complexity) can be used.
- "5 In order to be able to switch the monitor output, "9M Fisheye" or "4M Fisheye" must be selected for "Image capture mode". For information about usage limitations, refer to "10.1 Configure the basic settings [Basic]" of the Operating Instructions.
- *6 Only when installation work is properly performed according to the instructions in this book and appropriate waterproof treatment is performed.

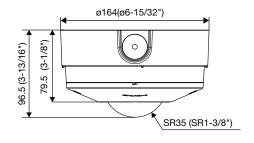
Part Names and Functions

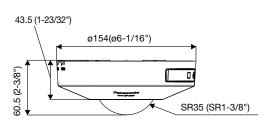




Appearance

Unit: mm (inches)







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.
- ONVIF and the ONVIF logo are trademarks of ONVIF Inc.
- All other trademarks identified herein are the property of their respective owners Important
- Safety Precaution: Carefully read the Important Information, Installation Guide and operating instructions before using this product. - Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network
- All product pictures are NTSC models.
- · Masses and dimensions are approximate • Specifications are subject to change without notice.

DISTRIBUTED BY:

anasonic

http://security.panasonic.com f http://www.facebook.com/PanasonicNetworkCamera