

# Super Dynamic Weather Resistant Full HD PTZ Dome Network Camera WV-SW598A



## Full HD / 1,920 x1,080 H.264 Weather Proof Camera featuring Optical 30x zoom and Super Dynamic

#### **Key Features**

- 1080p Full HD images up to 30 fps
- Super high resolution at Full HD / 1,920 x 1,080
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording.
- Full frame (Up to 30 fps) transmission at 1,920 x 1080 image size
- 30x optical zoom
  - 90x extra optical zoom at 640x360 resolution with 12x digital zoom enabling 1080x zoom.
- Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- Face Super Dynamic technology ensures clear face image.
- High sensitivity with Day/Night (ICR\*) function:
   0.15 lx (Color), 0.018 lx (B/W) at F1.6
- \* ICR: IR Cut filter Removal
- VIQS (Variable Image Quality on Specified area) technology allows the designated 2 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.
- VIQS can be set on preset position (1 to 8) and except preset.
- Smart coding Technology: Group of Pictures (GOP) control function removes unnecessary information from the frame for realizing efficient encoding.
- **GOP control** can save the network bandwidth and the disk space of recorder effectively.
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Selectable light control modes:
   Outdoor scene / Indoor scene (50 Hz) / Indoor scene (60 Hz) / Fix shutter
   Indoor scene (50 Hz / 60 Hz): Flicker caused
   by fluorescent lightning will be automatically compensated.
- 360 degrees endless Panning
- Advanced auto tracking: The camera automatically pans and tilts to follow a moving subject and keep it in the center of the image.
- PTZ control can be taken very smoothly on the user friendly GUI with 16 speeds pan/tilt and new "Drag and Zoom" operation enabling finer control.
   256 speeds available for system with WV-CU950 system controller.
- Up to 256 preset positions
- 360 map shot: 8 thumbnail images at 45 deg. intervals make it simple to direct the camera easily by clicking on a thumbnail.

- Industrial grade Pan / Tilt / Zoom mechanism for high reliability
- VMD (Video Motion Detection) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 32 private areas, such as house windows and entrances/exits.
- Camera title display: Up to 20 alphanumeric characters on the browser
- Alarm sources including 3 terminal input, VMD and Panasonic alarm command can trigger actions such as SDXC/SDHC/SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, and Panasonic alarm protocol output.
- Full duplex bi-directional audio allows interactive communication between camera site and monitoring site.
- JPEG Image compression ratio can be changed by alarm so that higher quality image can be provided.
- Prioritized stream control: One of the video streams can be prioritized when multiple recorders or client PCs are accessing the camera so that the recorder or the client PC can maintain the frame rate.
- SDXC/SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- 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
- 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
- Rain wash coat dome cover
- Ambient Operating Temperature : -50 °C to +55 °C (-58 °F to 131 °F)
- Fog and Sandstorm compensation
- AEM (Auto Eyelid Mechanism) offers images that are more natural and easy to watch reducing doubled images when direction of the lens moved above the horizontal.

### **Specifications**

Corre	Imer: 0	2005	Approx 1/2 type MOS im
Camera	Image Ser Scanning		Approx.1/3 type MOS image sensor Progressive scan
	Scanning Mode Scanning Area		5.35 mm (H) x 3.34 mm (V) {7/32 inches(H) x 1/8 inches(V)}
		Illumination	Color : 0.15 lx, BW: 0.018 lx (F1.6, Auto slow shutter : Off (1/30s), Gain: On(High))
			Color : 0.009 lx, BW 0.001 lx (F1.6, Auto slow shutter : Max. 16/30s, Gain: On(High))*1
	White Balance Light Control Mode		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K) Outdoor scene: Automatic integration of ALC and ELC Indoor scene [50 Hz]: Automatic integration of ALC and ELC (up to 1/100 s
			Indoor scene [60 Hz] : Automatic integration of ALC and ELC (up to 1/100 s Fix shutter
	Shutter Speed		Fix shutter: 1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000
	Super Dynamic Face Super Dynamic		On / Off On / Off
	Dynamic Range		105 dB typical (Super Dynamic : On, Light Control mode : Indoor) *Theoretical value. Conventional measuring method : 52 dB
	Adaptive Black Stretch Fog compensation		On / Off On / Off (Super Dynamic and Adaptive black stretch : Off)
	Gain(AGC) Auto slow shutter		On (High) / On (Mid) / On (Low) / Off Off (1/30 s), max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s
	Day/Night (ICR)  Digital Noise Reduction		Mode : AUTO1 / AUTO2 / AUTO3 / On / Off Level : High / Low, with external control High / Low
	Video Motion Detection Privacy Zone		Gray / Mosaic / Off (up to 32 zones available)
	Image Stabilizer VIQS		On / Off On / Off Up to 2 zones at preset position 1-8 and except preset
	Double Image Reduction Camera Title (OSD)		On / Off
	Focus dist		On / Off Up to 20 characters (alphanumeric characters, marks) Limited{around 1.5m(4.9 ft)} / Unlimited
Lens	Focal Length		4.3 mm - 129.0 mm {3/16 inches - 5-3/32 inches}
	Zoom Ratio Digital (Electrical) Zoom		30x / 90x with extra optical zoom (at 640 x 360)  12x (Max. 1080x combined with extra optical zoom at 640 x 360)
	Angular Field of View		[16 : 9 mode] Horizontal : 2.6 ° (TELE) - 63 ° (WIDE)  Vertical : 1.5 ° (TELE) - 37 ° (WIDE)  [4 : 3 mode] Horizontal : 1.9 ° (TELE) - 46 ° (WIDE)
	Maximum Aperture Ratio Focusing Range		Vertical : 1.5 ° (TELE) - 37 ° (WIDE) 1: 1.6 (WIDE) - 4.7 (TELE)
	Aperture F		2.0 m - ∞ F1.6 - Close
Pan and Tilt	Panning Range		360° endless
	Panning Speed		Manual: approx. 0.065°/s - 120°/s, Up to 256 steps (depending on the controller Preset: up to approx. 300°/s
	Tilting Range		-15° to 195° (upward-level-downward) Auto Eyelid Mechanism (Double image reduction) Selectable tilting angle :
	Tilting Speed		10 °/5 °/3 °/0 ° °2 / -3 ° °2 / -5 ° °2 / -10 ° °2 / -15 ° °2  Manual : approx. 0.065 °/s to 120 °/s,  Up to 256 steps (depending on the controller)
	Proportion	al Pan/Tilt Control	Preset: up to approx. 300°/s Yes
	Number of Preset Positions		
	Auto Mode Image Hold		Auto track / Auto pan / Preset sequence / 360 map-shot / Patrol On / Off
	Camera position display		Off / Pan-Tilt degree · Zoom ratio display / Direction display
	Self Return Map Shot		10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 m 360° map shot / preset map shot
Browser GUI	Camera C	ontrol	Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode
	Display Mode		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only). 20 characters camera title available
	Camera Title		Up to 20 alphanumeric characters
	Clock Display		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual 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 / High
	SD Memory Data Download		Audio Output : On / Off Volume adjustment : Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD memory card
	GUI/Setup Menu Language		can be downloaded.  English / Italian / French / German / Spanish / Portuguese / Russian Chinese / Japanese
	System Log		Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is
	Supported OS *3 Supported Browser		set to JPEG.) error logs Microsoft® Windows® 10, Microsoft® Windows® 8.1
			Microsoft® Windows® 8, 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)
			Windows® Internet Explorer® 7 (32 bit)
Network	Network IF		Windows® Internet Explorer® 7 (32 bit)  10Base-T / 100Base-TX, RJ45 connector
Network	Network IF Image Resi H.264		Windows® Internet Explorer® 7 (32 bit)
Network	Image Res	olution	Windows® Internet Explorer® 7 (32 bit)  10Base-T / 100Base-TX, RJ45 connector  • 2 mega pixel [16 : 9] (30 fps mode)  1,920 x 1,080 / 640 x 360 / 320 x 180  • 1.3 mega pixel [16 : 9] (30 fps mode)  1,280 x 720 / 640 x 360 / 320 x 180
Network	Image Resi H.264	olution	Windows® Internet Explorer® 7 (32 bit) 10Base-T / 100Base-TX, RJ45 connector 2 mega pixel [16:9] (30 fps mode) 1,920 x 1,080 / 640 x 360 / 320 x 180  1.3 mega pixel [16:9] (30 fps mode) 1,280 x 720 / 640 x 360 / 320 x 180  1.3 mega pixel [4:3] (30 fps mode)
Network	Image Resi H.264	PEG) Transmission	Windows® Internet Explore® 7 (32 bit)  10Base-T / 100Base-TX, RJ45 connector  • 2 mega pixel [16: 9] (30 fps mode)  1,920 x 1,080 / 640 x 360 / 320 x 180  • 1.3 mega pixel [16: 9] (30 fps mode)  1,280 x 720 / 640 x 360 / 320 x 180  • 1.3 mega pixel [4: 3] (30 fps mode)  1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240)  Constant bit rate / Variable bit rate / Frame rate priority /
Network	Image Resi H.264	Transmission Mode Frame Rate	Windows® Internet Explorer® 7 (32 bit) 10Base-T / 100Base-T X, RJ45 connector 2 mega pixel [16: 9] (30 fps mode) 1,920 x 1,080 / 640 x 360 / 320 x 180  1.3 mega pixel [16: 9] (30 fps mode) 1,280 x 720 / 640 x 360 / 320 x 180  1.3 mega pixel [4: 3] (30 fps mode) 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240)  Constant bit rate / Variable bit rate / Frame rate priority / Best effort / Advanced VBR  1/3/5/7.5/10/12/15/20/30 fps
Network	Image Resi H.264	PEG) Transmission Mode	Windows® Internet Explore® 7 (82 bit) 10Base-T / 100Base-TX, RJ45 connector  • 2 mega pixel [16: 9] (30 fps mode) 1,920 x 1,080 / 640 x 360 / 320 x 180  • 1.3 mega pixel [6: 9] (30 fps mode) 1,280 x 720 / 640 x 360 / 320 x 180  • 1.3 mega pixel [4: 3] (30 fps mode) 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240)  Constant bit rate / Variable bit rate / Frame rate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 /
Network	Image Resi H.264 JPEG (MJ	Transmission Mode Frame Rate Bit Rate/Client Image Quality	Windows® Internet Explorer® 7 (32 bit) 10Base-T / 100Base-T X, RJ45 connector 2 mega pixel [16: 9] (30 fps mode) 1,920 x 1,080 / 640 x 360 / 320 x 180  1.380 x 720 / 640 x 360 / 320 x 180  1.380 x 720 / 640 x 360 / 320 x 180  1.380 appixel [16: 9] (30 fps mode) 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240)  Constant bit rate / Variable bit rate / Frame rate priority / Best effort / Advanced VBR  1/3/5/7.5/10/12/15/20/30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps  Low / Normal / Fine
Network	Image Resi H.264 JPEG (MJ	Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode	Windows® Internet Explore® 7 (82 bit) 10Base-T / 100Base-TX, R.J45 connector  • 2 mega pixel [16:9] (30 fps mode) 1,920 x 1,080 / 640 x 360 / 320 x 180  • 1.3 mega pixel [16:9] (30 fps mode) 1,280 x 720 / 640 x 360 / 320 x 180  • 1.3 mega pixel [4:3] (30 fps mode) 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240)  Constant bit rate / Variable bit rate / Frame rate priority / Best effort / Advanced VBR  1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps  64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps  Low / Normal / Fine  On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected
Network	Image Resi H.264 JPEG (MJ	PEG)  Transmission Mode Bit Rate/Client Image Quality Smart Coding mode Refresh Interval Transmission Type	Windows® Internet Explorer® 7 (32 bit) 10Base-T / 100Base-T x, RJ45 connector 2 mega pixel [16: 9] (30 fps mode) 1,920 x 1,080 / 640 x 360 / 320 x 180  • 1.3 mega pixel [16: 9] (30 fps mode) 1,280 x 720 / 640 x 360 / 320 x 180  • 1.3 mega pixel [16: 9] (30 fps mode) 1,280 x 950 / VGA(640 x 480) / QVGA(320 x 240)  Constant bit rate / Variable bit rate / Frame rate priority / Best effort / Advanced VBR  1/3/5/7.5/10/12/15/20/30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps  Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s
Network	Image Resi H.264 JPEG (MJ	PEG)  Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh Interval Transmission Type Image Quality Refresh Interval	Windows® Internet Explorer® 7 (32 bit) 10Base-T / 100Base-T x, RJ45 connector 2 mega pixel [16: 9] (30 fps mode) 1,920 x 1,080 / 640 x 360 / 320 x 180  • 1.3 mega pixel [16: 9] (30 fps mode) 1,280 x 720 / 640 x 360 / 320 x 180  • 1.3 mega pixel [16: 9] (30 fps mode) 1,280 x 950 / VGA(640 x 480) / QVGA(320 x 240)  Constant bit rate / Variable bit rate / Frame rate priority / Best effort / Advanced VBR  1/3/5/7.5/10/12/15/20/30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps  Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s
Network	Image Res H.264 JPEG (MJ H.264 *4 JPEG	PEG)  Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	Windows® Internet Explore® 7 (82 bit)  10Base-T / 100Base-TX, RJ45 connector  • 2 mega pixel [16: 9] (30 fps mode)  1,920 x 1,080 / 640 x 360 / 320 x 180  • 1.3 mega pixel [6: 9] (30 fps mode)  1,280 x 720 / 640 x 360 / 320 x 180  • 1.3 mega pixel [4: 3] (30 fps mode)  1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240)  Constant bit rate / Variable bit rate / Frame rate priority / Best effort / Advanced VBR  1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps  64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps  Low / Normal / Fine  On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected  0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s  Unicast / Multicast  0 SUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-5)  0.1 fps - 30 fps
Network	Image Res H.264 JPEG (MJ	PEG)  Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh Interval Transmission Type Images Quality Refresh Interval Transmission Type pression	Windows® Internet Explorer® 7 (32 bit) 10Base-T / 100Base-TX, RL45 connector 2 mega pixel [16: 9] (30 fps mode) 1,920 x 1,080 / 640 x 360 / 320 x 180  • 1.3 mega pixel [16: 9] (30 fps mode) 1,280 x 720 / 640 x 360 / 320 x 180  • 1.3 mega pixel [4: 3] (30 fps mode) 1,280 x 960 / VGA(640 x 480) / CVGA(320 x 240)  Constant bit rate / Variable bit rate / Frame rate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected. 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 0. SUPER FINE / I FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0.50 / 1,10 / 10 / 10 / 10 / 10 / 10 / 10 /
Network	Image Resi H.264 JPEG (MJ H.264 *4 JPEG Audio Cor Audio Mod	PEG)  Transmission Mode Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh Interval Irransmission Type Images Quality Refresh Interval Transmission Type procession Jet Button for Audio	Windows® Internet Explore® 7 (32 bit) 10Base-T / 100Base-TX, Ru45 connector  • 2 mega pixel [16: 9] (30 fps mode) 1,920 x 1,080 / 640 x 360 / 320 x 180  • 1.3 mega pixel [16: 9] (30 fps mode) 1,280 x 920 / 640 x 360 / 320 x 180  • 1.3 mega pixel [4: 3] (30 fps mode) 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240)  Constant bit rate / Variable bit rate / Frame rate priority / Best effort / Advanced VBR  1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps  64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps  Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected. 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s  Unicast / Multicast 0.1 fps - 30 fps  Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC'5

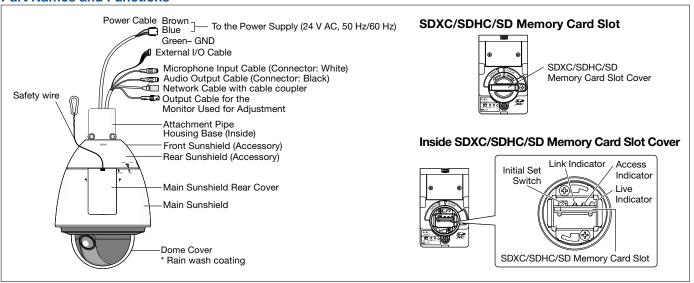
Network	Supported Protocol	IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP,
		SNMP, DHCPv6 , ICMP, ARP
		IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTF DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP
	FTP Client	Alarm image transmission, FTP periodic transmission
		(When the FTP transmission is failed, backup on an optional
		SDXC/SDHC/SD memory card is available. )
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD	H.264 recording (Audio recording is enable):
	Memory Card (Option)	Manual REC / Alarm REC(Pre/Post) / Schedule REC /
	Memory Card (Option)	
		Backup upon network failure
		JPEG recording:
		Manual REC / Alarm REC (Pre/Post) / Backup upon network failure
		Compatible SD (SDHC/SDXC) card:
		Panasonic 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB**, 128 GB** mode
		*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Cellular Phone Compatibility	JPEG image, panning / tilting / zoom / focus control,
		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, Sound detection
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,
		Indication on browser, FTP image transfer, Panasonic protocol output
	Alarm Log	With SDXC / SDHC / SD memory card: 5,000 logs,
	_	without SDXC / SDHC / SD memory card: 1,000 logs
	Schedule	Alarm / VMD / Access permission / H.264 recording / Sound detection
Input/	Monitor Output	VBS: 1.0 V[p-p] / 75 Ω,
Output	(for adjustment)	NTSC / PAL composite, BNC Jack
	Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm monaural mini jack
		(Applicable microphone: Plug-in power type)
		Supply voltage: 2.5 V ±0.5 V Input impedance: approx. 2 kΩ
	Audio Output	ø3.5 mm stereo mini jack (monaural output) Line level
	External I/O Terminals	ALARM IN 1 (DAY/NIGHT IN), ALARM IN 2 (ALARM OUT),
		ALARM IN 3 (AUX OUT)
General	Safety/EMC Standard	<safety></safety>
	,	UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1
		<emc></emc>
		FCC Part15 Class A, ICES-003 Class A, EN55022 Class B, EN55024
	Power Source and	AC24 V : 3.5 A. 55 W
	Power Consumption	PoE+ : DC 54V 470 mA, 25 W (IEEE802.3at compliant)
	T office Control of page 1	Tested POE Injector (60 W) : DC 54V 1.0 A, 50 W
	Ambient Operating	AC24 V and Tested PoE Injector (60 W) :
	Temperature	-50 °C to +55 °C (-58 °F to 131 °F) * with limitations
	remperature	POE+ : -30°C to +55°C (-22 °F to 131 °F)
	Ambient Operating Humidity	10 % to 90 % (no condensation)
		Compliant with IK10 (IEC62262)
	Shock resistance Water and Dust Resistance	IP66 rated water and dust resistant. Compatible with IEC60529
	water and bust nesistance	measurement standard, Type 4x(UL50), NEMA 4x compliant.
	Dimensions	ø229 mm x 392 mm(H) {ø9-1/32 inches x 15-7/16 inches(H)}
	Dimensions	
	Mana (222222)	diameter of the dome 160 mm(6-5/16 inches)
	Mass (approx.)	Approx. 5.0 kg { 11.02 lbs}
	Finish	Main body : Aluminum die cast, Natural silver Sunshields : ASA resin coating, Natural silver
		Dome section : Clear polycarbonate resin

<sup>&</sup>quot;3 For further information about PC system requirements and precautions for when using Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® Notes 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Microsoft® Windows® 10 Notes 9, Microsoft® Windows® 10 Notes 10 Notes

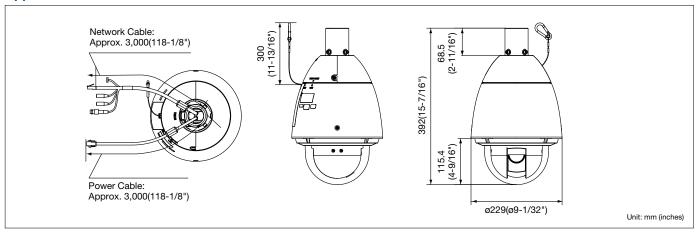
<sup>\*4</sup> Transmission for 2 streams can be individually set.

 $<sup>^{\</sup>star} 5 \text{ When recording audio on an SD memory card, only AAC-LC (Advanced Audio Coding - Low Complexity) is used.}$ 

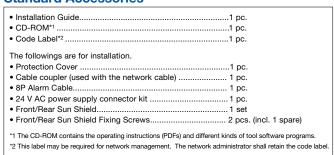
#### **Part Names and Functions**



#### **Appearance**



#### **Standard Accessories**



#### **Optional Accessories**

Ceiling Mount Bracket Wall Mount Bracket WV-Q121B WV-Q122A

#### Trademarks and registered trademarks

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- trademarks or trademarks of Microsoft Corporation in the United States and/or other countrie - iPad, iPhone, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries
- Android is a trademark of Google Inc.
  "MEGA Super Dynamic", "i-PRO SmartHD" logos are trademarks or registered trademarks of Panasonic Corporation.
- ONVIF and the ONVIF logo are trademarks of ONVIF Inc.

- Safety Precaution: Carefully read the 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.

#### **DISTRIBUTED BY:**



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