



WV-SW598 PTZ DOME NETWORK CAMERA

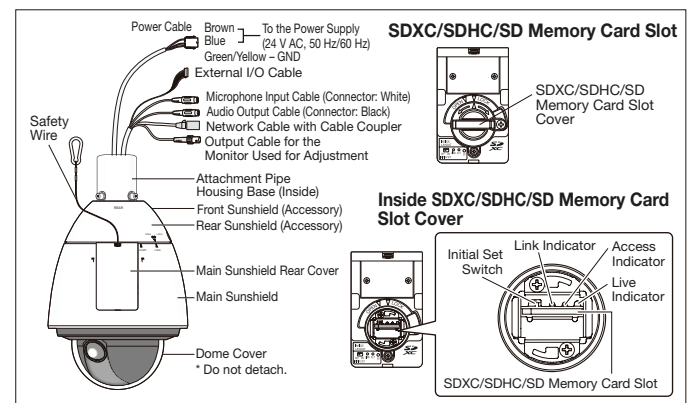
- 1080p full HD images up to 30 fps
- 30x optical zoom and 90x extra optical zoom at 640x360 resolution with 12x digital zoom enabling 1080x zoom
- Multiple H.264 and JPEG streams for real-time monitoring and recording
- Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras
- 360-degree endless panning
- ClearSight™ dome coating
- Vandal-resistant design
- IP66 rating for being waterproof and dustproof



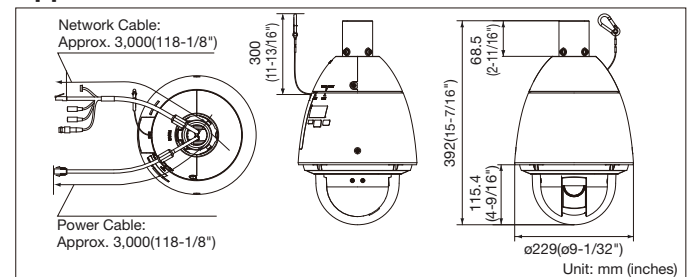
Superior reliability and functionality for improved outdoor surveillance

With full HD 1080p image quality and 360-degree endless panning, the WV-SW598 PTZ Dome Network Camera provides the crystal-clear surveillance imagery and flexibility needed to fit any outdoor environment. Perfect for complex lighting situations, Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver a 128x wider dynamic range than conventional cameras for increased visibility of subjects in dark areas with no degradation of the image quality in brighter areas within the same video scene. In addition, with its vandal-resistant IP66-rated design and new ClearSight™ rain-resistant dome coating, the WV-SW598 is built to survive in the harshest environments and maintain clear visibility in even the wettest conditions.

Part Names and Functions



Appearance





CAMERA	
Image Sensor	Approx. 1/3 type MOS Sensor
Effective Pixels	Approx. 2.4 megapixel
Scanning Mode	Progressive scan
Scanning Area	5.38 mm [H] x 3.02 mm [V] (7/32 inches[H] x 1/8 inches[V])
Minimum Illumination	Color: 0.5 lx, BW: 0.06 lx (F1.6, Auto slow shutter: Off (1/30s), Gain: On[High]) Color: 0.03 lx, BW: 0.004 lx (F1.6, Auto slow shutter: Max. 16/30s, Gain: On[High]) ¹⁾
White Balance	AWC [2,000 - 10,000 K], ATW1 [2,700 - 6,000 K], ATW2 [2,000 - 6,000 K]
Light Control Mode	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 1/120 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 (only at Super Dynamic Off)
Super Dynamic	On / Off
Face Super Dynamic	On / Off (Only at Super Dynamic: ON)
Adaptive Black Stretch	On / Off (Only at Super Dynamic: OFF)
Fog compensation	On / Off
AGC	On (Low, Mid, High) / Off
Electronic Sensitivity UP	Off / Auto (Max. 2x [2/30 s], 4x [4/30 s], 6x [6/30 s], 10x [10/30 s], 16x [16/30 s])
Day & Night (IR)	Mode: Auto1 / Auto2 / Auto3 / On / Off Level: High / Low, with external control
Digital Noise Reduction	High / Low
Video Motion Detection	4 areas Sensitivity: 15 steps Detection size: 10 steps
Privacy Zone	Up to 8 zones / Up to 32 zones, gray / mosaic
Image Stabilizer	On / Off
VIGS	Up to 2 zones at preset position 1-8 and except preset
Double Image Reduction	On / Off
Camera Title (OSD)	Up to 20 characters (alphanumeric characters, marks)
Focus distance	Limited / Unlimited
LENS	
Focal Length	4.3 mm - 129.0 mm, 30x
Zoom Ratio	30x / 90x with extra optical zoom (at 640x360)
Digital (Electrical) Zoom	12x (Max. 1080x combined with extra optical zoom at 640x360)
Angular Field of View	H: 2.6° [Tele] - 64.6° [Wide] V: 1.6° [Tele] - 38.2° [Wide]
Maximum Aperture Ratio	1 : 1.6 [Wide] - 4.7 [Tele]
Focusing Range	2.0 m - ∞
Aperture Range	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° - 195° (upward-level-downward) Auto Eyelid Mechanism (Double image reduction) Selectable tilting angle: 0° / -5° / -10° / -15°
Tilting Speed	Manual: approx. 0.065°/s - 120°/s, Up to 256 steps (depending on the controller) Preset: up to approx. 300°/s
Proportional Pan/Tilt Control	Yes
Number of Preset Positions	256
Auto Mode	Preset sequence / auto pan / auto track / patrol
Image Hold	On/Off
PTZ Position Display	On/Off
Self Return	10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 min
Map Shot	360° map shot / preset map shot
BROWSER GUI	
Camera Control	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]
Alarm Control	Reset
One Shot Capture	A still picture will be displayed on a newly opened window
Audio	Mic [Line] Input: ON / OFF Volume adjustment: Low / Middle / High, Audio Output: ON / OFF Volume adjustment: Low / Middle / High
SD Memory Data Download	Still or motion / images recorded in the SDXC/SDHC/SD memory card can be downloaded
GUI/Setup Menu Language	English / Italian / French / German / Spanish / Russian / Chinese / Japanese
System Log	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, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3
Supported Browser	Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit)

NETWORK	
Network IF	10Base-T / 100Base-TX, RJ-45 connector
Image Resolution	Image Capture Mode: H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 2 mega pixel [16:9] JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps
	Image Capture Mode: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps 1.3 mega pixel [16:9] JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps
	Image Capture Mode: H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps 1.3 mega pixel [4:3] JPEG (MJPEG): 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps
H.2644	Transmission Mode Constant bitrate / Frame rate priority / Best effort/Advanced VBR
	Frame Rate 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps
	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 kbps
	Image Quality Low / Normal / Fine
	Refresh Interval 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s
	Transmission Type Unicast / Multicast
JPG	Image Quality 10 steps
	Refresh Interval 0.1 fps - 30 fps
	Transmission Type Pull / Push
Audio Compression	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and sound detection
Audio Mode	Off / Mic [Line] input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
Authentication for Audio	Level 1 only / Level 2 higher / All users
Total Bit Rate	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited
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, RTP, FTP, SMTP, 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 Memory Card (Option)	H.264 recording (Audio recording is enabled): Manual REC / Alarm REC (Pre/Post) / Schedule REC 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** model *SDHC card, **SDXC card (except miniSD card and microSD card)
Cellular Phone Compatibility	JPEG image
Mobile Terminal Compatibility	iPad, iPhone, iPod touch
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/OUTPUT	
Monitor Output (for adjustment)	VBS: 1.0V(p-p) / 75, NTSC / PAL composite, BNC Jack
Microphone/Line Input	MIC IN and Line IN are selectable, 3.5 mm stereo mini jack (monaural input) [Applicable microphone: Plug-in power type] Supply voltage: 2.5 V ±0.5 V Input impedance: approx. 2 kΩ
Audio Output	3.5 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
PTZ Position Display	
GENERAL	
Safety/EMC Standard	Safety: UL [UL60950-1], C-UL [CAN/CSA C22.2 No.60950-1], CE, IEC60950-1 EMC: FCC Part15 Class A, ICES-003 Class A, EN55022 Class B, EN55024
Power Source and Power Consumption	AC24 V : 3.5 A, 55 W PoE+ : 470 mA, 25 W [IEEE802.3at compliant] PoE Injector (60 W) : 1.0 A, 50 W
Ambient Operating Temperature	AC24 V and Tested PoE Injector (60 W) : -50 °C - +55 °C [-58 °F - 131 °F] * with limitations PoE+ : -30°C - +55°C [-22 °F - 131 °F]
Ambient Operating Humidity	Less than 90% (no condensation)
Impact Protection	IEC 62262:2002 IK10 (Impact energy 20J)
Water and Dust Resistance	IP66, IEC60529 measuring standard compatible
Dimensions	9-1/32" W x 15-7/16" H Diameter of the dome: 6-5/16"
Weight	Approx. 11.04 lbs
Finish	Main body: Aluminum die cast, Natural silver Sunshields: ASA resin coating, Natural silver Dome section: Clear polycarbonate resin

¹⁾Converted value

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

³⁾When using IPv6 for communication, use Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.

⁴⁾Transmission for 2 streams can be individually set in the same compression method.

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