Panasonic

360-degree Super Dynamic Vandal Resistant Dome Network Camera WV-SW458 WV-SW458M



360-degree Vandal Resistant Network Camera featuring Super Dynamic

Key Features

- 360° monitoring with a wide variety of transmission modes:
- Panorama, Double Panorama, Quad PTZ, Single PTZ, and Quad streams (H.264/VGA) • 1080p Full HD images up to 30 fps.
- Combining enhanced "UniPhier[®]", Panasonic's proprietary System LSI platform and *2 areas VIQS* (Variable Image Quality on Specified area) function can decrease maximum 50%⁻¹ network bandwidth.
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by enhanced "UniPhier[®].
- 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
- *Super Dynamic* and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- High sensitivity with Day/Night (Electrical) function:1.5 lx (Color), 1.2 lx (B/W) at F2.4
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- With the Intelligent Resolution technology, 3 areas outlines, detailed texture areas and soft gradation areas - are automatically detected and optimum signal processes are performed to each area. Apart from the uniform enhancement of sharpness, the innovative technology Intelligent Resolution precisely performs signal processing pixel by pixel in the most effective way for it. As a result, images are naturally clear and crisp suitable for all surveillance applications.
- 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/60Hz): 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 4 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, HTTP notification, and Panasonic 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 / 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.
- Dehumidification device for use in various weather conditions
- Operating temperature -40 °C ~ +50 °C (-40 °F ~ 122 °F)
- Vandal resistant mechanism for high reliability
- "Railway applications Electronics equipment used on rolling stock" compatible with EN50155
- Low profile design for discrete installation
- Onvif compliant model
- *1 Compared with WV-NP502, reduction effect is decreased by object and image quality setting conditions

Standard Accessories

Installation Guide1 pc. CD-ROM*11 pc.	• Code label*21 pc.
The following is used during installation pro • Camera attachment	cedures: • Fixing screws (M4 x 8 mm) <sw458> 5 pcs. (of them, 1 for spare) • 4P alarm cable</sw458>
Waterproof tape 1 pc.	• Bit for tamperproof screw
*1 The CD-ROM contains the operating installations	

Specifications

DISTRIBUTED BY:

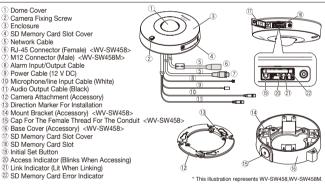
TV System		opeor	NTSC PAL
Camera	Image Se Effective		1/3 type MOS Sensor Approx. 3.1 megapixels
			Progressive
	Scanning Mode Scanning Area		4.51 mm (H) × 3.38 mm (V) {3/16 inches (H) x 1/8 inches (V)}
		n Illumination	Color: 1.5 lx (F2.4, Auto slow shutter: Off (1/30s), Gain:On(High)) Color: 0.1 lx (F2.4, Auto slow shutter: Max. 16/30s, Gain:On(High)) *1
			BW: 1.2 lx (F2.4, Auto slow shutter: Off (1/30s), Gain:On(High)) BW: 0.08 lx (F2.4, Auto slow shutter: Off (16/30s), Gain:On(High)) *1
	White Ba		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)
	Light Control Mode Shutter Speed		Indoor scene (50 Hz / 60 Hz) / ELC With Super Dynamic On ELC (1/30 s) With Super Dynamic Off
			ELC (1/30 s), ELC (3/100 s), ELC (3/120 s), ELC (2/100 s), ELC (2/120 s), ELC (1/100 s), ELC (1/120 s) ELC (1/250 s), ELC (1/500 s), ELC (1/1,000 s), ELC (1/2,000 s), ELC (1/10,000 s), ELC (1/10,000 s) ON / OFF
			52 dB typ. (only at Super-Dynamic On)
	Dynamic Range Adaptive Black Stretch		On/Off (only at Super-Dynamic Off)
	Adaptive Black Stretch		ON (HIGH) / ON (MID) / ON (LOW) / OFF
	Electronic Sensitivity UP		OFF (1/30 s), Max. 2/30 s, Max. 4/30 s, Max. 6/30 s, Max. 10/30 s, Max. 16/30
		ight(electrical)	OFF / AUTO
		oise Reduction	HIGH / LOW
	Video M	otion Detection	ON / OFF, 4 areas available
	Auto mo	de:	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 2	Zone	ON / OFF (up to 4 zones available)
	VIQS		On/Off (up to 2 areas available) However, the VIQS function is not supported when 'Quad PTZ', Single PTZ' or 'Quad streams' are selected
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks), On/Off However, you can specil characters to be displayed on each of the four screens when "Quad streams" is selecter
Lens	Focal Le	ngtn Field of View	0.837 mm Horizontal: 182 °, Vertical: 176 °
			1:2.4 (Fixed)
	Maximum Aperture Ratio Focusing Range		0.3 m ~ ∞
Browser	Camera		Pan/Tilt/Digital Zoom, Preset, Auto Mode, Self Return, Fisheye Control, Brightness, AUX ON / OF
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
	Digital Zoom Camera Title		1x, 2x, 4x controlled by browser GUI (Panorama, Double Panorama, Fisheye mode 1x -4x (Quad PTZ or Single PTZ mode) Up to 20 alphanumeric characters
	Clock Display Alarm Control		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual Reset
	One Sho	t 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 Memo	ry Data Download	Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded
		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 log
	Supported OS *2 *3		Microsoft® Windows® 8, Microsoft® Windows® 7,
	Supported Browser		Microsoft® Windows Vista®, Microsoft® Windows® XP SP3 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 b
			Microsoft® Internet Explorer® 6.0 SP3
Network	Network IF		10Base-T / 100Base-TX, RJ-45 connector (female)
		WV-SW458M	10Base-T / 100Base-TX, M12 connector (male)
	Image	2M Panorama [16:9]/	H.264(1): 1920x1080 / 640x360 / 320x180, up to 30 fps
	Resolution	2M Double Panorama [16:9]:	H.264(2): 640x360/320x180, up to 30 fps JPEG: 1920x1080/640x360/320x180, up to 30 fps
		1M Panorama [16:9]/	H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps
		1M Double	H.264(2): 640x360/320x180, up to 30 fps
		Panorama [16:9]:	JPEG: 1280x720/640x360/320x180, up to 30 fps
		Panorama + Quad PTZ/	When using distribution of "Panorama" or "Double panorama"
		Panorama + Single PTZ/	H.264(1): 1920x1080/640x360/320x180, up to 15 fps
		Double Panorama +	JPEG: 1920x1080/640x360/320x180, up to 15 fps
		Quad PTZ/	When using distribution of "Quad PTZ" or "Single PTZ"
		Double Panorama + Single PT7:	H.264(2): 1280x960/640x480/320x240, up to 15 fps
		Single PTZ: VGA Quad streams	JPEG: 1280x960/640x480/320x240, up to 15 fps Ch1-Ch4 640x480 max.30 fps
		VGA Quau sileams	* Only for H.264 images. * There are specification limitations such as the SD memory card function being unavailable
		3M Fisheye [4:3]:	H.264(1): 1280x960, up to 15 fps JPEG: 2048x1536, up to 15 fps
		1.3M Fisheye [4:3]:	H.264(1): 1280x960 / 640x480 / 320x240, up to 30 fps H.264(2): 640x480 / 320x240, up to 30 fps
			JPEG: 1280x960 / 640x480 / 320x240, up to 30 fps
	H.264	Transmission Mode	Constant bitrate / Framerate 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 / 8,192 / 10,240 / 12,288 / 14,336 kbp
		Image Quality	LOW / NORMAL / FINE
	1	Refresh Interval	
		Transmission Type	
	JPEG	Image Quality Refresh Interval	10 steps 0.1 fps ~ 30 fps
		Transmission Type	PULL / PUSH
	Audio Cr	ompression	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps
			OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
	Audio Mode Authentication for Audio		
	Total Bit Rate		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimite
	Supported Protocol		IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, AF IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DONS, NTP, SNMP, UPvP, IGMP, ICMP, A
	FTP Client		Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SD memory card is available
	Supporte FTP Clie	ed Protocol	IPA6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCP-46, MLD, ICI IPA4: TCP/IP, UDPI, HTTP, HTTB; RTB; RTB; RTB; RTB; RTB; SMTP, SMTP, AUC2, DNS, DNS, NTP, SMMP, LHP, JUB4, Alarm image transmission, FTP periodicit transmission (When the FTP transmission is failed, backup on an optional SD memory card is av

TV System NTSC ΡΔΙ SDXC/SDHC/SD H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC Network JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure Compatible Memory Card (Option) SD (SDHC/SDXC) card: Panasonic 1 GB, 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, AUX control (by access level) Mobile Terminal Compatibility iPad, iPhone, iPod touch (iOS 4.2.1 or later) Android[™] mobile terminals Alarm 3 terminals input, VMD, Command alarm Alarm Source Alarm Actions SDXC/SDHC/SD memory recording, E-mail notification, Indication on browser, FTP image transfer, Panasonic protocol output, HTTP notification 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 Microphone/Line Input 03.5 mm monaural mini jack, Input impedance: Approx. 2 kΩ For microphone input Applicable microphone: Plug-in power type, Supply voltage: 2.5 V ±0.5 V Input/ Output For line input Input level: Approx. -10 dBV Audio Output ø3.5 mm stereo mini jack (monaural output), Output impedance: Approx. 600 Ω, Line level External I/O Terminals ALARM IN 1, ALARM IN 2/ ALARM OUT, ALARM IN 3/ AUX OUT (x1 for each) General Mounting method Ceiling/ Wall UL (ULE0950-1), FCC (Part15 ClassA), SW458 C-UL (CAN/CSA C22.2 No.60950-1), CE,IEC60950-1(EN55022 ClassB,EN55024) Safety/EMC Standard DOC (ICES003 ClassA) SW458M CE,IEC60950-1(EN55022 ClassA,EN55024) Power Source and 12V DC, PoE (IEEE802.3af compliant) / Power Consumption 12 V DC*: 540 mA/ 6.5 W / PoE 48 V: 125 mA/ 6.0 W (Class 2 devices) FOR UL LISTED MODEL(S), ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY. -40 °C ~ +50 °C (-40 °F ~ 122 °F) Ambient Operating Temperature Ambient Operating Humidity Less than 90 % (no condensation) Camera: IP66 (IEC60529) Water and Dust Resistance Shock Resistance Compliant with 50 J (IEC 60068-2-75)/IK10 (IEC 62262) EN50155, EN50121 Railway Application Main body:ø154 mm x 50.5 mm (H) {ø6-1/16 inches x 2 inches (H)] Dimensions WV-SW458 Including the mount bracket: ø164 mm x 88 mm (H) {ø6-15/32 inches x 3-15/32 inches (H)} 191.5 mm (W){7-17/32 inches (W)} (including projection of the base cover fixing screw) WV-SW458M ø154 mm x 50.5 mm (H) {ø6-1/16 inches x 2 inches (H)} Approx. 1.1 kg {2.43 lbs} (including the camera attachment and Mass WV-SW458 the mountbracket) (approx.) Approx. 0.8 kg {1.76 lbs} (including the camera attachment) Main body: Aluminum die cast, light gray WV-SW458M Finish Dome section: Clear polycarbonate resin

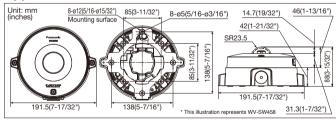
*1 Converted value *2 Refer to "Notes on Windows Vista® / Windows® 7 / Windows® 8" on the provided CD-ROM for further information about system 2 Here to todes on windows visar / windows® / / windows® and windows with the provided Co-How to Indiane initiation about 25%
 3 When using IPv6 for communication, 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.

* Trainingson both and a second of the individually set in the same compression mendo.
5 Only when installation works specified in this book is properly performed and appropriate waterproof treatment is performed.
* When the camera is faced toward spot light or other bright lights and light reflecting objects, ghost image may appear.

Part Names and Functions



Appearance



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 Panasonic cannot be responsible for the performance of the network and/or other manufacturers'
 - Masses and dimensions are approximate.
 Specifications are subject to change without notice.
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 All product pictures are NTSC models.

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