

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
- Face detection function detects the position of human face and the information is sent by XML or video stream.
- 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, 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
- *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 procedures:					
Camera attachment	Fixing screws (M4 x 8 mm) <sw458> </sw458>				
*1 The CD-ROM contains the operating installations and installation guide (PDF). *2 This label may be required for network management. The network administrator shall retain the code label.					

Specifications

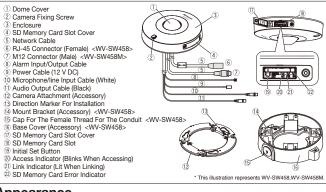
TV Systen Camera		ensor	NTSC PAL 1/3 type MOS Sensor
Camera	Image Sensor Effective Pixels		Approx. 3.1 megapixels
	Scanning		Progressive
	Scanning		4.51 mm (H) × 3.38 mm (V) {3/16 inches (H) x 1/8 inches (V)}
	Minimun	n Illumination	Color: 1.5 lx (F2.4, Auto slow shutter: Off (1/30s), Gain:On(High))
			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	alance	AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)
		ntrol Mode	Indoor scene (50 Hz / 60 Hz) / ELC
	Shutter S	Speed	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 (1/4,000 s), ELC (1/10,000 s)
	Super-D	vnamic	ON / OFF
	Dynamic		52 dB typ. (only at Super-Dynamic On)
		Black Stretch	On/Off (only at Super-Dynamic Off)
	AGC Electronic Sensitivity UP Day & Night(electrical) Digital Noise Reduction		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
			OFF / AUTO HIGH / LOW
		otion Detection	ON / OFF, 4 areas available
		tics Face Detection	Off/On/On with face frame display However, face detection is not supported
			when "Fisheye" or "Quad streams" is selected for the image type.
	Auto mo	de:	Auto pan/ Preset sequence
	0-16		Auto mode can only be used when the image type is Quad PTZ or Single PTZ.
	Self retu	m:	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 specify
	Ess II		characters to be displayed on each of the four screens when "Quad streams" is selected
.ens	Focal Le		0.837 mm Horizontal: 182 °, Vertical: 176 °
	Angular Field of View Maximum Aperture Ratio		Horizontal: 182°, Vertical: 176° 1:2.4 (Fixed)
	Focusing		0.3 m ~ ∞
Browser	Camera		Pan/Tilt/Digital Zoom, Preset, Auto Mode, Self Return, Fisheye Control, Brightness, AUX ON / OFF
IUI	Display I	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.
	Digital Z	oom	1x, 2x, 4x controlled by browser GUI (Panorama, Double Panorama, Fisheye mode) 1x ~4x (Quad PTZ or Single PTZ mode)
	Camera	Title	Up to 20 alphanumeric characters
	Clock Di		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual)
	Alarm Co		Reset
		t Capture	A still picture will be displayed on a newly opened window.
	Audio		Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High,
	OD Marray Data Davida ad		Audio Output: ON / OFF Volume adjustment: Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded.
	SD Memory Data Download 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 *3		Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3
	Supported Browser		Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit),
	Natural IF	1404 014450	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3
Network	Network IF	WV-SW458 WV-SW458M	10Base-T / 100Base-TX, RJ-45 connector (female) 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	H.264(2): 640x360/320x180, up to 30 fps
	*4	Panorama [16:9]:	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/ Panorama + Single PTZ/	When using distribution of "Panorama" or "Double panorama" 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 +	H.264(2): 1280x960/640x480/320x240, up to 15 fps
		Single PTZ:	JPEG: 1280x960/640x480/320x240, up to 15 fps
		VGA Quad streams	Ch1-Ch4 640x480 max.30 fps
			* 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
	L		JPEG: 1280x960 / 640x480 / 320x240, up to 30 fps
	H.264	Transmission Mode	Constant bitrate / Framerate priority / Best effort
		Frame Rate Bit Rate/Client	1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/8,192/10,240/12,288/14,336 kbps
		Image Quality	O4/ 128/ 230/ 364/ 512/ 166/ 1,024/ 1,336/ 2,046/ 5,072 / 4,080 / 6,192 / 10,240 / 12,266 / 14,336 kups
		Refresh Interval	
		Transmission Type	
	JPEG	Image Quality	10 steps
		Refresh Interval	
	Transmission Type		PULL / PUSH
	Audio Compression		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		
	Authentication for Audio 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, SMMP, DHCPv6, MLD, ICMP, ARF
			IPv4: TCP/IP, UDPIIP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, AR
	FTP Client		Alarm image transmission, FTP periodic transmission
	No. of Simultaneous Users		(When the FTP transmission is failed, backup on an optional SD memory card is available.)
	No of O	nultanceus	Up to 14 users (Depends on network conditions)

TV System			NTSC	PAL	
Network	100.00	DHC/SD Card (Option)	H264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure Compatible SD (SDHC/SDXC) card: Panasonic 1 GB. 2 GB. 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB* model		
	Face Detection		"SDHC card, " SDXC card (except miniSD card and microSD card) ON / ON with face frame display / OFF (with XML notification) *"3M Fisheye [4:3]", "1.3M Fisheye [4:3]", and "VGA Quad streams" modes cannot use the Face Detection function		
	Cellular Phone Compatibility Mobile Terminal Compatibility		JPEG image, AUX control (by access level) iPad, iPhone, iPod touch (iOS 4.2.1 or later) Android [™] mobile terminals		
Alarm	Alarm Source		3 terminals input, VMD, Command alarm SDXC/SDHC/SD memory recording, E-mail notification, Indication on browser,		
	Alarm Actions		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		
Input/ Output	Microphone/Line Input				
	For line input Audio Output		Input level: Approx. –10 dBV		
		I/O Terminals	ø3.5 mm stereo mini jack (monaural output), Output impedance: Approx. 600 Ω, Line leve ALARM IN 1, ALARM IN 2/ ALARM OUT, ALARM IN 3/ AUX OUT (x1 for each)		
General			T, ALAHWING ACK OCT (XT ICI each)		
	Safety/EMC Standard		UL (UL60950-1), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60950-1), DOC (ICES003 ClassA)	SW458 CE,IEC60950-1(EN55022 ClassB,EN55024 SW458M CE,IEC60950-1(EN55022 ClassA,EN55024	
	Power Source and Power Consumption		12V DC, PoE (IEEE802.3af compliant) / 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.		
		perating Temperature			
	Ambient Operating Humidity		Less than 90 % (no condensation)		
	Water and Dust Resistance				
	Shock Resistance		Compliant with 50 J (IEC 60068-2-75)/IK10 (IEC 62262)		
	Railway Application		EN50155, EN50121 Main body:ø154 mm x 50.5 mm (H) {ø6-1/16 inches x 2 inches (H)}		
	Dimensions	WV-SW458			
				Im (H) {ø6-15/32 inches x 3-15/32 inches (H)} g projection of the base cover fixing screw)	
		WV-SW458M	ø154 mm x 50.5 mm (H) {ø6-1/*		
	Mass	WV-SW458	Approx. 1.1 kg {2.43 lbs} (includ	ding the camera attachment and	
	(approx.)	WV-SW458M	the mountbracket)	ling the comore attachment)	
	Finish		Approx. 0.8 kg {1.76 lbs} (including the camera attachment) Main body: Aluminum die cast, light gray		
			Dome section: Clear polycarbonate resin		

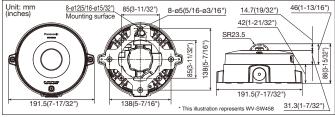
*1 Converted value *2 Refer to "Notes on Windows Vista® / Windows® 7" on the provided CD-ROM for further information about system

*2 Heter to "Notes on Windows Vista", / Windows * / on the provided CD-HOM for further information about system requirements for a PC and precautions when using Microsoft Windows * 7 or Microsoft Windows Vista*, *3 When using IPv6 for communication, use Microsoft* Windows* 7 or Microsoft* Windows Vista*, *4 Transmission for 2 streams can be individually set in the same compression method. *5 Only when installation work 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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Important

All Other inducements incertains incertains incertains in a product important
 Safety Precaution: Carefully read the operating instructions and installation manual before using this product.
 Panasonic cannot be responsible for the performance of the network and/or other manufacturers'
 products used on the network.
 • These products may be subject to export

Specifications are subject to change without notice.

control regulations.All product pictures are NTSC models.

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http://panasonic.net/security/

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