

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

Preliminary



360 degree Vandal Resistant Network Camera featuring Super Dynamic

Key Features

- 360° monitoring with a wide variety of transmission modes: Wall 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 fish-eye 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.
- 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 pro • 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
			4.51 mm (H) × 3.38 mm (V) {3/16 inches (H) × 1/8 inches (V)}
	Scanning Area Minimum Illumination		Color: 1.5 Ix (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)) *
			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)
	Light Co	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		ON / OFF
	Dynamic		52 dB typ. (only at Super-Dynamic On)
	Adaptive Black Stretch		On/Off (only at Super-Dynamic Off) ON (HIGH) / ON (MID) / ON (LOW) / OFF
	AGC	c 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 s
		ight(electrical)	OFF / AUTO
		oise Reduction	HIGH / LOW
		otion Detection	ON / OFF, 4 areas available
		tics Face Detection	Off/On/On with face frame display
	video analy		However, face detection is not supported when "Fisheye" or
			"Quad streams" is selected for the image type.
	Auto mo	de:	Auto pan/ Preset sequence
			Auto mode can only be used when the image type is Quad PTZ or Single PTZ.
	Self retu	rn:	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
	-		characters to be displayed on each of the four screens when "Quad streams" is selected
.ens	Focal Le		0.837 mm
		Field of View	Horizontal: 182 °, Vertical: 176 °
		n Aperture Ratio	1:2.4 (Fixed)
	Focusing		0.3 m ~ ∞
Browser	Camera		Pan/Tilt/Digital Zoom, Preset, Auto Mode, Self Return, Fisheye Control, Brightness, AUX ON / OFI
GUI	Display I	vioue	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	00m	1x, 2x, 4x controlled by browser GUI (Quad PTZ or Single PTZ mode)
	Digital Z	00111	1x ~4x (Panorama, Double Panorama, 3M Fisheye mode)
	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
		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 I		Up to 100 (Internal), Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error log
		ed OS *2 *3	Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3
	Supporte	ed Browser	Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit),
letwork	Notwork IE	WV-SW458	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector (female)
	INCLIVUTK IF	WV-SW458 WV-SW458M	10Base-T / 100Base-TX, RJ-45 connector (remaie) 10Base-T / 100Base-TX, M12 connector (male)
	Image	2M Panorama [16:9]/	H.264(1): 1920x1080 / 640x360 / 320x180, up to 30 fps
	· ·	2M Panoralia [10.9) 2M Double	H.264(2): 640x360/320x180, up to 30 fps
	*4	Panorama [16:9]:	JPEG: 1920x1080/640x360/320x180, up to 30 fps
	1	1.3M Panorama [16:9]/	H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps
		1.3M 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 "Wall 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 +	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.
		014 51 1 1 1	* 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
	H.264	Transmission Mode	Constant bitrate / 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 kbp
		Image Quality Refresh Interval	LOW / NORMAL / FINE 1 fps ~ 30 fps
		Transmission Type	UNICAST / MULTICAST
	JPEG	Image Quality	10 steps
	J'EG	Refresh Interval	0.1 fps ~ 30 fps
		Transmission Type	PULL / PUSH
	Audio Co	ompression	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps
	Audio Compression 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		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited
		ed 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
	FTP Cile		
		nultaneous Users	(When the FTP transmission is failed, backup on an optional SD memory card is available Up to 14 users (Depends on network conditions)

TV System			NTSC	PAL	
Network	SDXC/S	DHC/SD	Manufactured by Panasonic		
	Memory	Card (Option)			
	,				
	Face De	tection			
			and "VGA Quad streams" modes can		
	Cellular Pl	hone Compatibility	JPEG image, AUX control (by access level)		
		minal Compatibility			
Alarm	Alarm So		VMD. Command alarm		
/	Alarm Actions		SDXC/SDHC/SD memory recording, E-mail notification, Indication on browser,		
	/		FTP image transfer. Panasonic protocol output		
	Alarm Lo	n	With SDXC/SDHC/SD memory card: 5,000 logs, without SDXC/SDHC/SD memory card: 1,000 logs		
	Schedule		VMD		
Input/		one/Line Input	Ø3.5 mm monaural mini jack, Input impedance: Approx. 2 kΩ		
Output		For microphone input Applicable microphone: Plug-in power type, Supply voltage: 2.			
		For line input	Input level: Approx. –10 dBV		
	Audio O		ø3.5 mm stereo mini jack (monaural output), Output impedance: Approx. 600 Ω, Line level		
				ARM IN 1, ALARM IN 2/ ALARM OUT, ALARM IN 3/ AUX OUT (x1 for each)	
General		g method	Ceiling/ Wall		
General		MC Standard	UL (UL60950-1), FCC (Part15 ClassA),	SW458	
	Power Source and		C-UL (CAN/CSA C22.2 No.60950-1),	CE,IEC60950-1(EN55022 ClassB,EN55024)	
			DOC (ICES003 ClassA)	SW458M	
			000 (1020000 01833A)	CE,IEC60950-1(EN55022 ClassA,EN55024)	
			12V DC, PoE (IEEE802.3af com		
		consumption	12 V DC*: 540 mA/ 6.5 W / PoE 48 V: 125 mA/ 6.0 W (Class 2 devices)		
	FowerG	onsumption	*FOR UL LISTED MODEL(S), ONLY CONNECT 12 V DC CLASS 2 DOVER SUPPLY.		
	Ambiant Or	perating Temperature	-40 °C \sim +50 °C (-40 °F \sim 122 °F)		
			Less than 90 % (no condensation)		
	Ambient Operating Humidity Water and Dust Resistance Shock Resistance Railway Application Dimensions WV-SW458		Camera: IP66 (IEC60529) *5		
			Compliant with 50 J (IEC 60068-2-75)/IK10 (IEC 62262)		
			EN50155, EN50121		
			Main body:		
	Dimensions	VVV-SVV430	ø154 mm x 50.5 mm (H) {ø6-1/	16 inchos x 2 inchos (U)	
			Including the mount bracket:	TO Inches X 2 Inches (FI)}	
			ø164 mm x 88 mm (H) {ø6-15/3	0 inches v 0, 15/20 inches (U)	
				g projection of the base cover fixing screw)	
		WV-SW458M			
	Maria		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 the mountbracket)		
	Mass	WV-SW458			
	(approx.) WV-SW458M Finish		Approx. 0.8 kg {1.76 lbs} (including the camera attachment)		
			Main body: Aluminum die cast, light gray		
*1 Convert	1		Dome section: Clear polycarbonate resin		

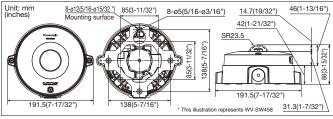
*1 Converted value *2 Refer to "Notes on Windows Vista® / Windows® 7" on the provided CD-ROM for further information about system

*2 refer to "Notes on Windows Vista" / Windows " / on the provided CU-HOM tor 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 may appear.

Part Names and Functions

 Dome Cover
 Camera Fixing Screw
 Screw
 Enclosure
 SD Memory Card Slot Cover Network Cable Bernor Cadie
 BL-45 Connector (Female) <WV-SW458>
 Mi12 Connector (Male) <WV-SW458A>
 Mi12 Connector (Male) <WV-SW458A>
 Blarm Input/Output Cable
 Power Cable (12 V DC)
 Microphoneline Input Cable (White)
 Audio Output Cable (Black)
 Camera Attachment (Accessory)
 W-SW458>
 So Aperor The Female Tread For The Conduit <WV-SW458>
 So Memory Card Slot Cover
 Bi SD Memory Card Slot
 Access Indicator (Blinks When Accessing)
 Link Indicator (Lit When Linking)
 So Memory Card Error Indicator 6 RJ-45 Connector (Female) <WV-SW458> 7 () ÷ bi 20 13 (15 This illustration rep

Appearance



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All other trademarks benchmer herein a provide the set of the

Masses and dimensions are approximate.
Specifications are subject to change without notice.

 These products may be subject to export control regulations.All product pictures are NTSC models.



http://panasonic.net/security/

f http://www.facebook.com/PanasonicNetworkCamera Printed in Japan (2A-099A)

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