

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%" 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
- \bullet 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)
- \bullet 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
- \bullet Operating temperature –40 °C \sim +50 °C (–40 °F \sim 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	ocedures:
Camera attachment	Fixing screws (M4 x 8 mm) <sw458></sw458>
*1 The CD-ROM contains the operating installations	

Specifications

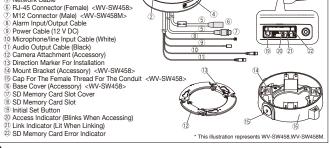
TV Systen	ficati		NTSC PAL		
Camera	Image S	ensor	1/3 type MOS Sensor		
	Effective Pixels Scanning Mode Scanning Area Minimum Illumination		Approx. 3.1 megapixels		
			Progressive		
			4.51 mm (H) × 3.38 mm (V) {3/16 inches (H) x 1/8 inches (V)}		
			Color: 1.5 lx (F2.4, Auto slow shutter: Off (1/30s), 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)		
		ntrol Mode	Indoor scene (50 Hz / 60 Hz) / ELC		
	Shutter 9	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 (1/500 s), E		
	Super-D	vnomio	ON / OFF 52 dB typ. (only at Super-Dynamic On)		
	Dynamic Range Adaptive Black Stretch AGC Electronic Sensitivity UP Day & Night(electrical) Digital Noise Reduction Video Motion Detection		On/Off (only at Super-Dynamic Off)		
			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		
			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		
	L		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		
	Focal Length		characters to be displayed on each of the four screens when "Quad streams" is selected		
Lens		Field of View	0.837 mm Horizontal: 182 °, Vertical: 176 °		
		n Aperture Ratio	1:2.4 (Fixed)		
	Focusing		0.3 m ~ ∞		
Browser			Pan/Tilt/Digital Zoom, Preset, Auto Mode, Self Return, Fisheye Control, Brightness, AUX ON / OFI		
GUI	Camera Control Display Mode		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad		
uo.	Diopiay .	***************************************	screens or 16 split screen (JPEG only). 20 characters camera title available		
	Digital Z	oom	1x, 2x, 4x controlled by browser GUI (Quad PTZ or Single PTZ mode)		
	"		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		
	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 log		
		ed OS *2 *3	Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP:		
	Supported Browser		Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3		
Network	Natwork IE	WV-SW458	10Base-T / 100Base-TX, RJ-45 connector (female)		
HOLWOIK	INCLWOIN	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		H.264(2): 640x360/320x180, up to 30 fps		
	*4	Panorama [16:9]:	JPEG: 1920x1080/640x360/320x180, up to 30 fps		
		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.		
		3M Fighous [4:0]	*There are specification limitations such as the SD memory card function being unavailable. H.264(1): 1280x960, up to 15 fps JPEG: 2048x1536, up to 15 fps		
	H.264	3M Fisheye [4:3]: Transmission Mode	H.264(1): 1280x960, up to 15 fps		
	17.204	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 kbps		
		Image Quality	LOW / NORMAL / FINE		
		Refresh Interval	1 fps ~ 30 fps		
		Transmission Type	UNICAST / MULTICAST		
	JPEG	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		
	Audio Compression Audio Mode		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)		
	Authentication for Audio				
	Authenti		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited		
	Authenti Total Bit	Rate			
	Total Bit	Rate ed Protocol			
	Total Bit		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,		
	Total Bit Support	ed Protocol	IPAG: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCP\G, MLD, ICMP, ARP IPAG: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP		
	Total Bit	ed Protocol	IPIG: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FIP, SMTP, DNS, NTP, SMMP, DHCP:G, MLD, ICMP, ARP IPIG: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FIP, SMMP, DHCP, DNS, DDNS, NTP, SMMP, UPP, ISMP, ICMP, EMP, APP Alarm image transmission, FTP periodic transmission		
	Total Bit Supporte	ed Protocol	IPAG: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCP\G, MLD, ICMP, ARP IPAG: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP		

TV System			NTSC	PAL	
Network	SDXC/S	DHC/SD	Manufactured by Panasonic		
	Memory	Card (Option)	SDXC memory card: 64 GB / SDHC memory card: 4 GB, 8 GB, 16 GB, 32 GB /		
	memory cara (option)		SD memory card: 1 GB, 2 GB (except miniSD card and microSD card)		
	Face De	tection	ON / OFF (with XML notification) *"3M Fisheye [4:3]", "1.3M Fisheye [4:3]",		
			and "VGA Quad streams" modes can		
	Cellular P	hone Compatibility			
	Mobile Terminal Compatibility		iPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminals		
Alarm			VMD. Command alarm		
,			SDXC/SDHC/SD memory recording, E-mail notification, Indication on browser,		
	,	0110110	FTP image transfer, Panasonic protoco		
	Alarm Lo	20	With SDXC/SDHC/SD memory card: 5,000 logs, without SDXC/SDHC/SD memory card: 1,000 log		
	Schedul		VMD		
Input/		one/Line Input	ø3.5 mm monaural mini jack, In	nut impedance: Approx 2 kO	
Output	WIICIOPII	For microphone input			
		For line input	Applicable microphone: Plug-in power type, Supply voltage: $2.5 \text{ V} \pm 0.5 \text{ V}$ Input level: Approx. -10 dBV		
	Audio O		ø3.5 mm stereo mini jack (monaural output), Output impedance: Approx. 600 Ω, Line leve		
		I/O Terminals	ALARM IN 1, ALARM IN 2/ ALARM OUT, ALARM IN 3/ AUX OUT (x1 for each)		
General					
General	Mounting method Safety/EMC Standard		Ceiling/ Wall UL (UL60950-1), FCC (Part15 ClassA),	SW458	
	Salety/EIVIC Staridard		C-UL (CAN/CSA C22.2 No.60950-1),		
				CE,IEC60950-1(EN55022 ClassB,EN55024	
			DOC (ICES003 ClassA)	SW458M	
	Danier Carrier and		10V DO D-E (IEEE000 0-6	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 SUPPL		
	Ambient Operating Temperature		-40 °C ~ +50 °C (-40 °F ~ 122 °F)		
	Ambient Operating Humidity		Less than 90 % (no condensation)		
	Water and Dust Resistance		Camera: IP66 (IEC60529) *5		
	Shock Resistance		Compliant with 50 J (IEC 60068-2-75)/IK10 (IEC 62262)		
	Railway Application		EN50155, EN50121		
	Dimensions	WV-SW458	Main body:		
			ø154 mm x 50.5 mm (H) {ø6-1/1	16 inches x 2 inches (H)}	
			Including the mount bracket:		
			ø164 mm x 88 mm (H) {ø6-15/3		
			191.5 mm (W){7-17/32 inches (W)} (includin		
		WV-SW458M	ø154 mm x 50.5 mm (H) {ø6-1/1		
	Mass	WV-SW458	Approx. 1.1 kg {2.43 lbs} (including the c		
	(approx.)	WV-SW458M	W-SW458M Approx. 0.8 kg {1.76 lbs} (including the camera attachment)		
	Finish		Main body: Aluminum die cast, light gray		
			Dome section: Clear polycarbonate resin		

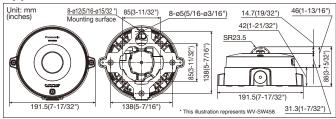
- *1 Converted value
 *2 Refer to "Notes on Windows Vista" / Windows 7" on the provided CD-ROM for further information about system "2" Heter to "Notes on Windows vistas", Windows "7" on the provided CU-HOM for further information about system requirements for a PC and precautions when using Microsoft "Windows" 7 or Microsoft "Windows Vistas".
 "3 When using IPv6 for communication, use Microsofts Windows 7 or Microsofts Windows Vistas".
 "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
 Enclosure
 SD Memory Card Slot Cover
- Network Cable 6 RJ-45 Connector (Female) <WV-SW458>



Appearance



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 All other trademarks identified neterin are the property of the control regulation manual before using this product.

 Basely Precaution: carefully read the operating instructions and installation manual before using this product.

 Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.

 Masses and dimensions are approximate.

 Specifications are subject to change without notice.

 All product pictures are NTSC models.

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