Panasonic

Super Dynamic HD Vandal Resistant Dome Network Camera

WV-SW155 / WV-SW155MA

Super Dynamic Vandal Resistant Dome Network Camera

WV-SW152 / WV-SW152M



HD / 1,280 x 960 H.264 Vandal Resistant Network Camera featuring Super Dynamic (wv-sw155) SVGA / 800 x 600 H.264 Vandal Resistant Network Camera featuring Super Dynamic (wv-sw152)

Key Features

- 720p HD images up to 30 fps (WV-SW155)
- 1.3 Megapixel high sensitivity MOS imege sensor
- Super high resolution at SVGA/800 x 600 created by 1.3 Megapixel high sensitivity MOS image sensor (WV-SW152)
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by "UniPhier®", Panasonic's proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size (WV-SW155)
- Full frame (Up to 30 fps) transmission at SVGA (800 x 600) image size (WV-SW152)
- Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- Face Super Dynamic technology ensures clear face image.
- High sensitivity with Day & Night (Electrical) function:
 0.8 lx (Color), 0.6 lx (B/W) at F2.2 (WV-SW155)
 0.6 lx (Color), 0.4 lx (B/W) at F2.2 (WV-SW152)
- VIQS (Variable Image Quality on Specified area) technology allows the designated area to retain higher image quality while the excluded area will have a decreased image quality, which enables to use lower image file size and bit rate.
- 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.
- 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.

- 2x extra zoom at VGA resolution
- 2x, 4x digital zoom controlled by browser
- VMD (Video Motion Detection) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 2 private areas, such as house windows and entrances/exits.
- Camera title display: Up to 20 alphanumeric characters on the browser
- Alarm sources including VMD and Panasonic alarm command can trigger actions such as FTP image transfer, E-mail notification, Indication on browser, and Panasonic alarm protocol output.

- 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.
- 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 / Portuguese / Russian / Chinese / Japanese
- IPv4/IPv6 protocol supported
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- ONVIF compliant model
- Low profile design for discrete installation
- "Railway applications Electronics equipment used on rolling stock" compatible with EN50155-T3, EN50121, ECE-R10*, EN45545*, EN50498*
 * WV-SW155MA
- Wide coverage (Horizontal: 104 °, Vertical: 85 °)
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard, Type 4X(UL50), NEMA 4X compliant.
- Vandal resistant mechanism for high reliability

Standard Accessories

Standard Accessories							
Installation Guide	The followings are for installation.						

Optional Accessory

Smoke Dome Cover



Specifications

TV System	ficatio		NTSC PAL		
	1				
Camera	Image Sen		1/3 type MOS image sensor		
	Effective P		Approx. 1.3 mega pixels		
	Scanning Mode		Progressive		
	Scanning A		4.8 mm (H) x 3.6 mm (V) (3/16" (H) x 5/32" (V))		
	Minimum	WV-SW155	Color: 0.8 lx (F2.2, Auto slow shutter: Off (1/30s), Gain: On (High))		
	Illumination		0.05 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain: On (High)) *1 BW: 0.6 lx (F2.2, Auto slow shutter: Off (1/30s), Gain:On(High))		
		WV-SW152	0.04 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain:On(High)) *1 Color: 0.6 lx (F2.2, Auto slow shutter: Off (1/30s), Gain: On (High))		
		WV-3W132	0.04 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain: On (High)) *1 BW: 0.4 lx (F2.2, Auto slow shutter: Off (1/30s), Gain:On(High)) *0.03 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain:On(High)) *1		
	White Bala		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)		
	Light Control Mode		Indoor scene (50 Hz / 60 Hz) / ELC		
	Shutter	With Super	ELC (1/30 s)		
	Speed	Dynamic On With Super	ELC (1/30 s), ELC (3/100 s), ELC (3/120 s), ELC (2/100 s), ELC (2/120 s),		
	Super Dyna	Dynamic Off	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) On / Off		
	Face Super Dynamic Adaptive Black Stretch		On / Off (Only when Super Dynamic: On) On / Off		
	AGC		On (High) / On (Mid) / On (Low) / Off		
		Sensitivity UP at (Electrical)	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		
	Dynamic R Digital Nois	ange se Reduction	52 dB typ. (Super Dynamic: On, Light Control: ELC) High / Low		
	Video Moti	on Detection	On / Off, 4 areas available		
	Privacy Zone VIQS		On / Off (up to 2 zones available) On / Off		
	Camera Title (OSD) Focus Adjustment		Up to 20 characters (alphanumeric characters, marks), On / Off MANUAL		
Lens	Focal Leng		1.95 mm		
	Zoom Ratio	0	1x / Extra zoom: 2x (at VGA resolution)		
	Angular Fie	eld of View	Horizontal: 104 °, Vertical: 85 °		
	Maximum A	Aperture Ratio	1:2.2		
	Focusing F		0.5 m - ∞		
Adjusting A			Ceiling Installation Horizontal: -20 ° to +20 °, Vertical: -20 ° to +90 ° Wall Installation Horizontal : -80 ° to +80 °, Vertical: -90 ° to +20 °		
Browser	Camera Co	ontrol	Brightness		
GUI	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.		
	Digital Zoo		1x, 2x, 4x controlled by browser GUI		
	Camera Tit		Up to 20 alphanumeric characters		
	Clock Display		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual)		
	One Shot Capture		A still picture will be displayed on a newly opened window.		
	SD Memory Data Download		Still or motion Images recorded in the SDHC/SD memory card can be downloaded.		
	GUI/Setup Menu Language System Log		English, Italian, French, German, Spanish, Portuguese, Chinese, Russian, Japanese Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when the		
	Supported OS *2 *3		recording format is set to JPEG.) error logs Microsoft® Windows® 8.1, Microsoft® Windows® 7,		
			Microsoft® Windows Vista®, Microsoft® Windows® XP SP3		
	Supported Browser		Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® 8 (32 bit), Windows® 8 (32 bit), Windows® 8 (32 bit), Windows® 8 (32 bit),		
Motore I -	Notwest	MAY CHARE LOWING	Windows® Internet Explorer® 7 (32 bit), Microsoft® Internet Explorer® 6 SP3		
Network	Network IF	WV-SW155MA	10Base-T / 100Base-TX, RJ45 connector (female) 10Base-T / 100Base-TX, M12 connector (female)		
	Image	WV-SW152M Aspect ratio	10Base-T / 100Base-TX, M12 connector (male) WV-SW155		
	Resolution	[4:3]	H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG: 1,280 x 960 / 640 x 480 / 320 x 240, up to 30 fps		
			WV-SW152 H.264: $800 \times 600 / VGA (640 \times 480) / QVGA (320 \times 240)$, up to 30 fps JPEG: $800 \times 600 / VGA (640 \times 480) / QVGA (320 \times 240)$, up to 30 fps		
		Aspect ratio	WV-SW155		
		[16:9]	H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps WV-SW152		
			H.264: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps		
	H.264/	Transmission Mode	Constant bitrate / Framerate priority / Best effort / Advanced VBR		
	MPEG-4	Frame Rate	1/3/5/7.5/10/15/20/30 fps 1/3/5/7.5/10/12/15/20/30 fps		
	*4	Bit Rate/	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072		
		Client	4,096 / 8,192* kbps * H.264 mode only (WV-SW155)		
		Image Quality			
			Unicast / Multicast		
	JPEG	Image Quality			
			0.1 fps - 30 fps		
		Transmission Type			
	Total Bit Rate Supported Protocol		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP,		
			SNMP, DHCPv6, RTP IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,		
			" " " " " " " " " " " " " " " " " " "		

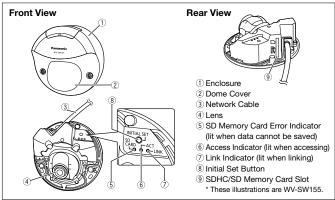
TV System		NTSC	PAL		
Network	FTP Client	Alarm image transmission, FTP periodic transmission (When the FTP transmission			
		is failed, backup on an optional SDHC/SD memory card is available.)			
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)			
	SDHC/SD Memory Card	Manufactured by Panasonic			
	(Option)	SDHC memory card: 4 GB, 8 GB, 16 GB, 32 GB			
		SD memory card : 256 MB, 512 MB, 1 GB, 2 GB			
		except miniSD card and microSD card			
	Cellular Phone Compatibility	JPEG image			
	Mobile Terminal Compatibility	iPad, iPhone, iPod touch(iOS 4.2.1 or later), Android™ mobile terminals			
Alarm	Alarm Source				
	Alarm Actions	SDHC/SD memory recording, E-mail notification, Indication on			
		browser, FTP image transfer, Panasonic protocol output			
	Alarm Log	With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card: 1,000 logs			
	Schedule	VMD			
General	Safety/EMC Standard UL (UL60950-1), FCC (Part15 ClassA), CE, IEC60950-		CE, IEC60950-1		
		C-UL (CAN/CSA C22.2 No.60950-1),	(EN55022 ClassB, EN55024)		
		DOC (ICES003 ClassA)			
	Power Source and	PoE (IEEE802.3af compliant) /			
	Power Consumption	PoE 48 V: 56 mA (Class 1 device)			
	Ambient Operating Temperature	-30 °C to +50 °C (-22 °F to 122 °F)			
	Ambient Operating Humidity	Less than 90 % (no condensation)			
	Impact Protection IEC 60068-2-75 test Eh, 50 J / IEC 62262 IK10				
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant'5			
	Railway Application	EN50155-T3, EN50121, ECE-R10*, EN45545*, EN50498*			
		* WV-SW155MA			
	Dimensions	ø109 mm x 47 mm (H) (ø4-9/32" x 1-27/32" (H))			
		With Mount Bracket: ø109 mm x 70 mm (H) (ø4-9/32" x 2-3/4" (H))			
	Mass (approx.)	350 g (0.77 lbs.) With Mount Bracket: 410 g(0.9 lbs)			
	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 / Windows® 8 / Windows® 8.1" on the provided CD-ROM for "2! Heter to "Notes on Windows Vistas" / Windows" / / Windows" 8 / Windows 8.1" on the provided CD-HOM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 8.1 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.

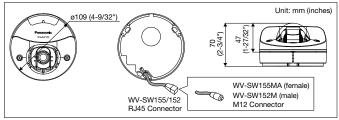
 3' When using IPv6 for communication, use Microsoft® Windows® 8.1 or Microsoft® Windows® 8 or Microsof

- *5 Only when installation work specified in this book is properly performed and appropriate waterproof treatment is performed.

Part Names and Functions



Appearance



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

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