

Super Dynamic HD Vandal Resistant Dome Network Camera

WV-SW155 / WV-SW155M

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 Sensor
- Super high resolution at SVGA/800 x 600 created by 1.3 Megapixel high sensitivity MOS 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 Range 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.
- \bullet 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
- Face detection function detects the position of human face and the information is sent by XML or video stream.
- Meta data for VMD works with the WJ-ND400 playback VMD function.
- 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 / 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
- Wide coverage (Horizontal: 104 °, Vertical: 85 °)
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Vandal resistant mechanism for high reliability

Standard Accessories

Otanida a 7 10000001100			
Installation Guide	Plastic cover		
The followings are for installation. • Fixing Screws (M4 x 8 mm)3 pcs. • Installation Template Label1 pc.	*1 The CD-ROM contains the operating instructions and different kinds of tool software programs. *2 This label may be required for network management. The network administrator shall retain the code label.		

Optional Accessories

Smoke Dome Cover WV-CW6S



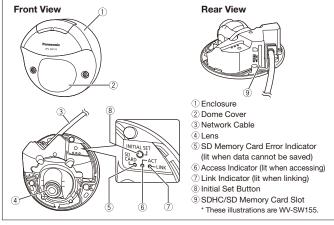
Specifications

TV System			NTSC PAL		
Camera	Image Sen	sor	1/3 type MOS Sensor		
	Effective P		Approx. 1.3 megapixel		
	Scanning Mode		Progressive		
	Scanning A		4.8 mm (H) x 3.6 mm (V) (3/16" (H) x 5/32" (V))		
	Minimum II		WV-SW155:		
			Color: 0.8 lx (F2.2, Auto slow shutter: Off (1/30s), Gain: On (High)) 0.05 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain: On (High)) **		
			WV-SW152: Color: 0.6 lx (F2.2, Auto slow shutter: Off (1/30s), Gain: On (High)) 0.04 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain: On (High))		
	White Bala Light Contr		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K) Indoor scene (50 Hz / 60 Hz) / ELC		
	Shutter	With Super	ELC (1/30 s)		
	Speed	Dynamic ON With Super Dynamic OFF	ELC (1/30 s), ELC (3/100 s), ELC (3/120 s), ELC (2/100 s), ELC (2/120 s),		
	Super Dynamic Face Super Dynamic		ON / OFF ON / OFF (Only at Super Dynamic: ON)		
	Adaptive Black Stretch AGC		ON / OFF ON (HIGH) / ON (MID) / ON (LOW) / OFF		
	Electronic Sensitivity UP				
	Day & Night(electrical) Dynamic Range		52 dB typ. (Super Dynamic: ON, Light Control: ELC)		
	Digital Noise Reduction Video Motion Detection		HIGH / LOW ON / OFF, 4 areas available		
	Privacy Zo		ON / OFF, 4 areas available ON / OFF (up to 2 zones available)		
	VIQS		ON / OFF		
	Camera Tit		Up to 20 characters (alphanumeric characters, marks), On/Off		
Lens	Focus Adju		MANUAL 1.95 mm		
LONG	Zoom Ratio		1x / Extra zoom: 2x (at VGA resolution)		
	Angular Fie		Horizontal: 104 °, Vertical: 85 °		
	Maximum Aperture Ratio				
	Focusing F	lange	0.5 m ~ ∞		
Adjusting A	Angle		Ceiling Installation Horizontal: -20 ° to +20 ° Vertical: -20 ° to +90 °		
Browser	00-		Wall Installation Horizontal: -80 ° to +80 ° Vertical: -90 ° to +20 °		
Browser GUI	Camera Co		Brightness Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad		
uui	Display Mode		screens or 16 split screen (JPEG only). 20 characters camera title available		
	Digital Zoom		1x, 2x, 4x controlled by browser GUI		
	Camera Title		Up to 20 alphanumeric characters Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual)		
	Clock Display One Shot Capture		A still picture will be displayed on a newly opened window.		
	SD Memory		Still or motion Images recorded in the SDHC/SD memory card can be downloaded.		
	Data Download GUI/Setup Menu Language		English, Italian, French, German, Spanish, Chinese, Russian, Japanese		
	System Log		Up to 100 (Internal), Up to 4,000 (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) Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3		
Network	Network IF	WV-SW155 / WV-SW152	10Base-T / 100Base-TX, RJ-45 connector (female)		
		WV-SW155M / WV-SW152M	10Base-T / 100Base-TX, M12 connector (male)		
	Image	Aspect ratio:			
	Resolution *3 *4	[4:3]	H.264: 1,280 \times 960 / VGA (640 \times 480) / QVGA (320 \times 240), up to 30 fps JPEG: 1,280 \times 960 / 640 \times 480 / 320 \times 240, up to 30 fps WV-SW152:		
			H.264: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG: 800 x 600 / VGA (640 x 480) / QVGA (320 x 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/		Constant bitrate / Framerate priority / Best effort		
	MPEG-4	Mode	1/2/5/75/40/45/00/20 to 1/2/5/75/40/40/45/00/00/		
	*5 *6	Frame Rate Bit Rate/	1/3/5/7.5/10/15/20/30 fps 1/3/5/7.5/10/12/15/20/30 fp 64/128/256/384/512/768/1,024/1,536/2,048/3,072		
		Client Image Quality			
			UNICAST / MULTICAST		
	JPEG	Type Image Quality	10 steps		
			0.1 fps ~ 30 fps		
			PULL / PUSH		
	Type Total Bit Rate		1		
		ate			
	Total Bit Ra Supported	ate	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPvIPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,		

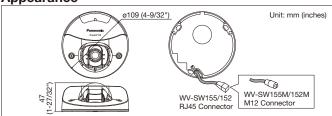
TV System		NTSC	PAL	
Network	FTP Client	Alarm image transmission, FTP periodic transmission (When the FTP transmission		
		is failed, backup on an optional SDHC/SD memory card is available.)		
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory Card	Manufactured 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		
	Face Detection	ON / OFF (with XML notification)		
Cellular Phone Compatibi		JPEG image		
	Mobile Terminal Compatibility	iPad, iPhone, iPod touch		
Alarm	Alarm Source	VMD, Command alarm		
	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, IEC60950-1		
		C-UL (CAN/CSA C22.2 No.60950-1),	(EN55022 ClassB, EN55024)	
		DOC (ICES003 ClassA)		
	Power Source and	PoE (IEEE802.3af compliant) / PoE 48 V: 56 mA (Class 1 device)		
	Power Consumption			
	Ambient Operating Temperature	-30 °C ~ +50 °C (−22 °F ~ 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	Camera: IP66 (IEC60529) *5		
	Railway Application	EN50155, EN50121		
	Dimensions	ø109 mm x 47 mm (H) (ø4-9/32" x 1-27/32" (H))		
	Mass (approx.)	350 g (0.77 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 on the provided CD-ROM 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.

Part Names and Functions



Appearance



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- Safety 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.
 - All TV pictures are simulated.
 - · 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.

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