Panasonic

Super Dynamic Full HD Vandal Resistant Dome Network Camera WV-SW158



Full HD / 1,920 x1,080 H.264 Vandal Resistant Network Camera featuring Super Dynamic

Key Features

- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
 Duilt is Missen base.
- Built-in Microphone
- Wide coverage : Horizontal: 100 °, Vertical: 81 °(3 megapixels [4:3])
- Low profile design for discrete installation
- 1080p HD images up to 30 fps
- 3.1 Megapixel high sensitivity MOS Sensor
- Super high resolution at Full HD/1,920 x 1,080 created by 3.1Megapixel high sensitivity MOS Sensor
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new "UniPhier®", Panasonic's proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,920 x 1080 image size
- 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:1.2 lx (Color), 0.9 lx (B/W) at F2.2
- 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/60 Hz): 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.

- 3x extra zoom at 640 x 360 resolution
- 2x, 4x digital zoom controlled by browser
- *VIQS* (Variable Image Quality on Specified area) technology allows the designated *2 areas* 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.
- Cropping function enables to provide whole image(1920 x 1080) and the part image(640 x 480) simultaneously. Up to 4 image capture areas can be specified, and it is also possible to control the sequence.
- Fog and sandstorm compensation
- 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 SDXC/SDHC/SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, 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.
- 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.
- Onvif compliant model
- "Railway applications Electronics equipment used on rolling stock" compatible with EN50155
- · Vandal resistant mechanism for high reliability

Standard Accessories

- *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-CW6SA

Specifications

DISTRIBUTED BY:

Camera	Image S	Sensor	1/3 type MOS Sensor	
	Effective Pixels		Approx. 3.1 megapixels	
		g Mode	Progressive scan	
	Scanning Area Minimum Illumination		4.51 mm(H) x 3.38 mm(V) {11/64 inches (H) x 9/64 inches (V)} Color: 1.2 k, BW: 0.9 k (F2.2, Auto slow shutter: Off (1/30s), Gain:On(High)}	
			Color: 0.075 lx, BW 0.056 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain:On(High)) *1	
	White Balance		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)	
	Light Control Mode		Outdoor scene: Automatic integration Indoor scene [50 Hz]: Automatic integration (up to 1/100 s) Indoor scene [60 Hz]: Automatic integration (up to 1/120 s)	
	Shutter Speed		ELC: (up to 1/10,000 sec.) Max shutter: 1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000(only at Super Dynamic OFF)	
	Super Dynamic		ON / OFF	
	Face Super Dynamic		ON / OFF (Only at Super Dynamic: ON)	
	Adaptive Black Stretch Fog compensation		ON / OFF (Only at Super Dynamic: OFF) ON / OFF	
	AGC Electronic Sensitivity UP		ON (LOW, MID, HIGH) / OFF	
	Day & Night (electrical)		OFF / Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s) OFF / Auto	
	Digital Noise Reduction		High / Low	
	Video Motion Detection		ON / OFF, 4 areas available	
	Privacy Zone		ON / OFF (up to 2 zones available)	
	VIQS		ON / OFF (up to 2 zones available)	
	Camera Title (OSD) Mirror Upside down		Up to 20 characters (alphanumeric characters, marks), ON / OFF ON / OFF	
	Lens Distortion Conpensation		256 steps	
Lens	Focal Length		1.95 mm {5/64 inches}	
	Zoom Ratio Angular Field of View		1x / Extra Zoom 3x (2 megapixels at 640 x 360 resolution) Horizontal: 100° Vertical: 81° (3 megapixels [4:3]) Horizontal: 95° Vertical: 62° (2/1.3 megapixels [16:9])	
	Maximum Aperture Ratio		Horizontal: 84° Vertical: 68° (1.3 megapixels [4:3]) 1 : 2.2	
	Focusing Range		0.5 m ~ ∞	
	Aperture Range		F2.2	
Adjusting Angle			Ceiling installation Horizontal: -20° to +20° Wall installation Horizontal: -80° to +80° Vertical: -90° to +20°	
Browser	Camera	Control	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 Z	'oom	1x, 2x, 4x controlled by browser GUI	
	Camera Title		Up to 20 alphanumeric characters	
	Clock D		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 Input: ON / OFF Volume adjustment: Low / Middle / High,	
		ory Data Download	Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded.	
	GUI/Setup Menu Language System Log		English, Italian, French, German, Spanish, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording	
	Support	ed OS *2 *3	format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® 7,	
	Supported Browser		Microsoft [®] Windows Vista [®] ,Microsoft [®] Windows [®] XP SP3 Windows [®] Internet Explorer [®] 10.0 (32 bit), Windows [®] Internet Explorer [®] 9.0 (32 bit)	
Network	Network	(IF	Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector	
Network	Image	Image Capture Mode:	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps	
	Resolution	2 mega pixel [16:9]	JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps	
		Image Capture Mode:	H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps	
		1.3 mega pixel [16:9] Image Capture Mode:	JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps	
		1.3 mega pixel [4:3]	H.264: 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps	
		Image Capture Mode:	H.264: 1,280 x 960, up to 15 fps	
		3 mega pixel [4:3]	JPEG (MJPEG): 2,048 x1,536, up to 15 fps	
	H.264*4	Transmission Mode	Constant bitrate / Frame rate priority / Best effort /Advanced VBR	
		Frame Rate	1/3/5/7.5/10/12/15/20/30 fps	
		Bit Rate/Client	Constant bit rate/Best effort: 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps	
		Image Quality	LOW / NORMAL / FINE	
		Refresh Interval	0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s	
		Transmission Type	UNICAST / MULTICAST	
	JPEG	Image Quality	10 steps	
		Refresh Interval	0.1 fps ~ 30 fps	
		Transmission Type	PULL / PUSH	
	Cropping		2 megapixels [16:9] H.264 640×360/ 320×180, Max. 30 fps	
			MJPEG 640×360/ 320×180, Max. 30 fps	
			1.3 megapixels [16:9]	
			H.264 640×360/ 320×180, Max. 30 fps	
			MJPEG 640×360/ 320×180, Max. 30 fps	
			MJPEG 640×360/ 320×180, Max. 30 fps 1.3 megapixels [4:3]	
			MJPEG 640×360/ 320×180, Max. 30 fps	

Network Audio Compression G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and sound detection Audio Mode OFF / Mic input Authentication for Audio Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1.024 / 2.048 / 4.096 / 8.192 kbps / Unlimited Total Bit Bate IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP Supported Protocol 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 (When the FTP transmission is failed, backup on an optional SDXC/SDHC/SD memory card is available.) No. of Simultaneous Users Up to 14 users (Depends on network conditions) H.264 recording (Audio recording is enable): Manual REC / Alarm REC (Pre/Post) / Schedule REC SDXC/SDHC/SD Memory Card (Option) JPEG recording: Manual REC / Alarm REC (Pre/Post) / Backup upon network failure Compatible SD (SDHC/SDXC) card: Panasonic 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64GB** model *SDHC card, ** SDXC card (except miniSD card and microSD card) Cellular Phone Compatibility JPEG image iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile terminals Mobile Terminal Compatibility Alarm Alarm Source VMD. Command alarm. Sound detection Alarm Actions SDXC/SDHC/SD memory recording, E-mail notification, Indication on browser, 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 / Sound detection Input/ Output Microphone Built-in microphone Safety/EMC Standard General <Safetv> UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 <EMC> FCC Part15 Class A, ICES-003 Class A, EN55022 Class B, EN55024 Power Source and Power Consumption PoE (IEEE802.3af compliant) / PoE 48 V: 110 mA (Class 2 device) Ambient Operating Temperature -30 °C to +50 °C {-22 °F to 122 °F} Ambient Operating Humidity Less than 90 % (no condensation) Water and Dust Resistance IP66, IEC60529 measuring standard compatible Compliant with 50 J IEC60068-2-75 Shock Resistance Railway Application EN50155, EN50121 Dimensions ø109 mm x 47 (H) mm {ø4-9/32 inches x 1-27/32 inches (H)} With Mount Bracket: ø109 mm x 70 mm (H) (ø4-9/32" x 2-3/4" (H)) Approx. 350 g { 0.77 lbs} Mass (approx.) Main body: Aluminum die cast, light gray Finish Dome cover: Clear polycarbonate resin

1 Converted value
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 2 Refer to "Notes on Windows Vista® / Windows® 7 / Windows® 8 on the provided CD-ROM for
 further information about system requirements for a PC and precautions when using Microsoft®
 Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.
 *3 When using IPv6 for communication, use Microsoft® Windows® 8 or Microsoft® Windows® 7 or
 Microsoft® Windows Vista®.
 *4 Transpirationa for a charge and be individually act in the came compression method.

*4 Transmission for 2 streams can be individually set in the same compression method.

Part Names and Functions

© Enclosure
② Dome Cover
③ SD Memory Card Slot ④ Network Cable
5 Lens
6 Initial Set Button
⑦ SD Memory Card Error Indicator (lit when data cannot be saved)
Access Indicator (lit when accessing) Access Indicator (lit
Iink Indicator (lit when linking)

Appearance



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- 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. These products may be subject to export control regulations.

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