

Super Dynamic Full HD Vandal Resistant Dome Network Camera

WV-SW158

Preliminary



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.
- 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.
- 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.
- $\bullet \ \, \text{Multi-language: English / Italian / French / German / Spanish / Russian / Chinese / Japanese}$
- 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

Installation Guide	Code Label*2	
The following parts are used during installat • Fixing Screws (M4 x 8 mm)3 pcs. • Installation Template Label1 pc. • Mount Bracket	ion procedures. Tamperproof Screw Bit	
*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 Launches in June 2013



Specifications

Camera		ions		
	Image S		1/3 type MOS Sensor	
	Effective		Approx. 3.1 megapixels	
	Scannin	g Mode	Progressive scan	
	Scannin	ig Area	4.51 mm(H) x 3.38 mm(V) {3/16 inches (H) x 1/8 inches (V)}	
	Minimur	m Illumination	Color: 1.2 lx, BW: 0.9 lx (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 B		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)	
			ELC: (up to 1/10,000 sec.)	
	Shutter	Speed	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	
	_	per Dynamic	ON / OFF (Only at Super Dynamic: ON)	
	Adaptive Black Stretch		ON / OFF (Only at Super Dynamic: OFF)	
	Fog compensation AGC Electronic Sensitivity UP Day & Night (electrical) Digital Noise Reduction Video Motion Detection Privacy Zone VIQS		ON / OFF ON (LOW, MID, HIGH) / OFF	
			OFF / Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s	
			OFF / Auto	
			High / Low	
			ON / OFF, 4 areas available	
			ON / OFF (up to 2 zones available)	
			ON / OFF (up to 2 zones available)	
		Title (OSD)	Up to 20 characters (alphanumeric characters, marks), ON / OFF	
	Mirror Upside down Lens Distortion Conpensation		ON / OFF 256 steps	
Lens	Focal Le		1.95 mm	
-6119			1x / Extra Zoom 3x (2 megapixels at 640 x 360 resolution)	
	Zoom Ratio Angular Field of View		Horizontal: 100° Vertical: 81° (3 megapixels [4:3])	
	gaidi		Horizontal: 95° Vertical: 62° (2/1.3 megapixels [4:3])	
			Horizontal: 84° Vertical: 68° (1.3 megapixels [4:3])	
	Maximu	m Aperture Ratio	1 : 2.2	
	Focusin	g Range	0.5 m ~ ∞	
	Aperture	e Range	F2.2	
Adjusting	Angle		Ceiling installation	
			Horizontal: -20° to +20° Vertical: -20° to +90°	
			Wall installation	
			Horizontal: -80° to +80° Vertical: -90° to +20°	
Browser		Control	Brightness	
GUI	Display	Mode	Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad	
	D: :: 1.7	•	screens or 16 split screen (JPEG only). 20 characters camera title available.	
	Digital Zoom Camera Title		1x, 2x, 4x controlled by browser GUI	
			Up to 20 alphanumeric characters Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual)	
	Clock Display		Reset	
	Alarm Control One Shot Capture		A still picture will be displayed on a newly opened window.	
	Audio	oupturo .	Mic Input: ON / OFF Volume adjustment: Low / Middle / High,	
		ory Data Download		
	GUI/Setup Menu Language		English, Italian, French, German, Spanish, Russian, Chinese, Japanese	
	GUI/Setu	ip ivieriu Lariguage		
	System		Up to 100 (Internal)	
			Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording	
	System		Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® 7,	
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Network	System Support Support Network Image Resolution	Log ed OS *2 *3 ed Browser IF Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Wista®, Microsoft® Windows® XP SP3 Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) 10Base-T7 / 100Base-TX, RJ-45 connector H264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps JPEG (MJPEG): 2,048 x1,536, up to 15 fps Constant bitrater / Frame rate priority / Best effort /Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Constant bit rater/Best effort: 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 f,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s	
Network	System Support Support Network Image Resolution H.264 *4	Log ded OS *2 *3 ded Browser CIF Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 1 mega pixel [4:3] Image Capture Mode: 1 mega pixel [4:3] Image Capture Mode: 1 mega Capture Mode: 2 mega Mode: 3 mega Mode: 3 mega Mode: 3 mega Mode: 3	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3 Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) 10Base-T7 / 100Base-TX, RJ-45 connector H.264: 1,320 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 1080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 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 JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Frame rate priority / Best effort /Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 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 LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST	
Network	System Support Support Network Image Resolution	Log red OS *2 *3 red Browser K IF Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:6] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Cilent Image Capture Mode: 1 mage Capture Mode: 1 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Cilent Image Capture Mode: 1 mage	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3 Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) 10Base=T/10Base=TX, RJ-45 connector H.264: 1,920 x1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 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 JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / GVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / GVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,260 x 1,536, up to 15 fps Constant bitrate / Frame rate priority / Best effort /Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 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 LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps	
Network	System Support Support Network Image Resolution H.264 *4	Log red OS *2 *3 red Browser IF Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3 Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) DBase-T / 100Base-TX, RJ-45 connector H.264: 1,290 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 2,280 x 1,330 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fp JPEG (MJPEG): 2,048 x1,536, up to 15 fps Constant bitrater / Frame rate priority / Best effort /Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Constant bitrate/Best effort: 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 372 / 4,056 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps ~ 30 fps	
Network	System Support Support Network Image Resolution H.264 *4	Log ed OS *2 *3 ed Browser IF Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Wista®, Microsoft® Windows® XP SP3 Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) 10Base-T7 / 100Base-TX, RJ-45 connector H264: 1,280 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 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 fp H264: 1,280 x 960, up to 15 fps JPEG (MJPEG): 2,048 x1,536, up to 15 fps JPEG (MJPEG): 2,048 x1,536, up to 15 fps Constant bitrater / Frame rate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Constant bitrate/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 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 Constant bitrate/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 Constant bitrate/Best effort: 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 1,414 / 8,192 / 10,240 / 12,288 / 14,336 kbps Constant bit rate/Best effort: 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 30 / 30 / 30 / 30 / 30 / 30 / 30 / 3	
Network	System Support Support Network Image Resolution H.264 *4	Log ed OS *2 *3 ed Browser IF Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3 Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) 10Base-T7 / 100Base-TX, RJ-45 connector H-264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 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 JPEG (MJPEG): 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) / GVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / GVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / GVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / GVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / GVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / GVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / GVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / GVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / GVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / GVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / GVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / GVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / GVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / GVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / GVGA(640 x 480) / GVGA(640 x 480) / GVGA(640 x 480) / GVGA(640 x 480) / GVGA(
Network	System Support Support Network Image Resolution H.264 *4	Log ed OS *2 *3 ed Browser IF Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3 Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) 10Base-T / 100Base-T /	
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Network	System Support Support Network Image Resolution H.264 *4	Log ed OS *2 *3 ed Browser IF Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Wista®, Microsoft® Windows® XP SP3 Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) 10Base-T7 /100Base-TX, RJ-45 connector H264: 1,280 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 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 fp H264: 1,280 x 960, up to 15 fps JPEG (MJPEG): 2,048 x1,536, up to 15 fps Constant bitrater / Frame rate priority / Best effort /Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Constant bitrater/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 Constant bit rater/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 Constant bitrater/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 Constant bit rater/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 Constant bitrater/Best effort: 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 300	
Network	System Support Support Network Image Resolution H.264 *4	Log ed OS *2 *3 ed Browser IF Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3 Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) 10Base-T7 / 100Base-TX, RJ-45 connector H264: 1,280 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 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 JPEG (MJPEG): 2,048 x1,536, up to 15 fps JPEG (MJPEG): 2,048 x1,536, up to 15 fps Constant bitrate / Frame rate priority / Best effort /Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 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 LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 2 megapixels [16:9] H.264 640×360 / 320×180, Max. 30 fps MJPEG 640×360 / 320×180, Max. 30 fps H.264 640×360 / 320×180, Max. 30 fps	
Network	System Support Support Network Image Resolution H.264 *4	Log ed OS *2 *3 ed Browser IF Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3 Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) 10Base-T / 100Base-T /	
Network	System Support Support Network Image Resolution H.264 *4	Log ed OS *2 *3 ed Browser IF Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3 Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) 10Base-T7 / 100Base-TX, RJ-45 connector H264: 1,280 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 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 JPEG (MJPEG): 2,048 x1,536, up to 15 fps JPEG (MJPEG): 2,048 x1,536, up to 15 fps Constant bitrate / Frame rate priority / Best effort /Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 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 LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 2 megapixels [16:9] H.264 640×360 / 320×180, Max. 30 fps MJPEG 640×360 / 320×180, Max. 30 fps H.264 640×360 / 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
	Total Bit Rate	64 / 128 / 256 / 384 / 512 / 768 / 1.024 / 2.048 / 4.096 / 8.192 kbps / Unlimited
	Supported 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
		(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)
	SDXC/SDHC/SD	H.264 recording (Audio recording is enable): Manual REC / Alarm REC (Pre/Post) / Schedule REC
	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
	Mobile Terminal Compatibility	iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile terminals
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
General	Safety/EMC Standard	<safety></safety>
		UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1
		<emc></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
	Shock Resistance	Compliant with 50 J IEC60068-2-75
	Railway Application	EN50155, EN50121
	Dimensions	ø109 mm x 47 (H) mm {ø4-9/32 inches x 1-27/32 inches (H)}
	Mass (approx.)	Approx. 350 g { 0.77 lbs}
	Finish	Main body: Aluminum die cast, light gray
		Dome cover: Clear polycarbonate resin

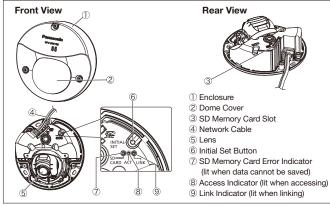
- *1 Converted value

 *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®.

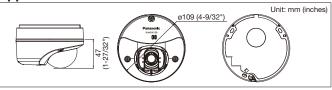
 *3 When using IPv6 for communication, use Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.

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

Part Names and Functions



Appearance



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