Panasonic

Super Dynamic HD Weatherproof Network Camera

WV-SPW611L WV-SPW611



HD / 1,280 x 720 60 fps H.264 Weatherproof Network Camera featuring Super Dynamic

Key Features

- 720p HD images up to 60 fps*1
- Approximate 1/2.8 inches, high sensitivity MOS image sensor
- Multiple H.264 (High profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new enhanced "UniPhier®", Panasonic's proprietary System LSI platform.
- Enhanced Super Dynamic^{*1} and ABS (Adaptive Black Stretch) technologies deliver 133 dB wider dynamic range compared to conventional cameras.
- Multi process NR & 3D-DNR ensures noise reduction in various conditions.
- High sensitivity with Day & Night (IR) function:
 0.01 lx (Color), 0.003 lx (B/W) at F1.3
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at zero lx. (WV-SPW611L only)
- IR LED is controlled to match the environment, thereby the camera provides clear images of human faces without white blur. (WV-SPW611L only)
- High Speed ABF (Auto Back Focus) and Motorized Zoom ensures easy installation.
- Newly developed lens with aperture control function realizes the best focus in any environment.
- VIQS (Variable Image Quality on Specified area) technology allows the designated eight 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 and the part image simultaneously. Up to 4 image capture areas can be specified, and it is also possible to control the sequence.
- Face Super Dynamic technology ensures clear face image.
- Lens distortion compensation for the distorted images can be adjusted 256 steps.
- Electronic sensitivity enhancement : Auto (Up to 16/30s) / OFF
- Selectable light control modes :
- Outdoor scene,Indoor scene (50 Hz) / Indoor scene (60 Hz),Fix shutter Indoor scene (50 Hz/60 Hz): Flicker caused by fluorescent lightning will be automatically compensated.
- 3x extra optical zoom at 640 x 360 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 8 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 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.
- Double SDXC/SDHC/SD Memory card slots for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (H.264 / JPEG). Realize long-term recording and auto backup function.
- Face detection function detects the position of human face and the information is sent by XML or video stream. (Extension Software)
- Can be added new intelligent extension software in addition to built-in VMD (Video Motion Detection), alarm function.
- Fog compensation function equipped as standard.
- Super Chroma Compensation function realizes a better color reproducibility even in low illumination.
- 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
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard, Type 4X(UL50), NEMA 4X compliant.
- Dehumidification device for use with various weather conditions

^{*1} Super Dynamic function is automatically set off on 60 fps mode

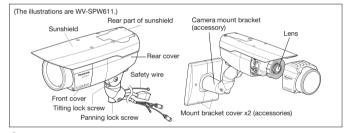
Specifications

Camera	Image S	Sensor	Approx. 1/3 type MOS image sensor
		e Pixels	Approx. 1.3 mega pixels
			Progressive scan
	Scanning Mode Scanning Area		4.864 mm (H) x 3.891 mm (V) {3/16 inches (H) x 5/32 inches (V)}
	Minimu	m Illumination	Color: 0.01 lx, BW: 0.003 lx (F1.3, Maximum shutter: Max. 1/30s, Gain: On(High))
			BW : 0 lx (F1.3, Maximum shutter : Off(1/30 s), Gain : High, when the IR LED is lit) *
	IR LED Light *1		Color: 0.0007 lx, BW: 0.0007 lx (F1.3, Maximum shutter: Max. 16/30s, Gain: On(High)): Off / Auto(High / Mid / Low)
	IR LED Light IR LED irradiation distance *1		Approx. 30 m {98.43 feet}
	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 / Indoor scene (50 Hz) / Indoor scene (60 Hz) / Fix shutter
	Shutter Speed		[1.3 mega pixel [16 : 9] (60 fps mode)] OFF(1/60), 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 [Other than 1.3 mega pixel [16 : 9] (60 fps mode)]
			OFF(1/30), 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500, 1/1000 1/2000, 1/4000, 1/10000
		Dynamic *3 uper Dynamic	On(High) / On(Normal) / Off On/Off (only when Super Dynamic : On)
		e Black Stretch	On/Off (only when Super Dynamic : Off)
	Fog compensation		On/Off (only when Super Dynamic / Adaptive black stretch : Off)
	High light compensation(HLC)		On/Off (only when Super Dynamic / Adaptive black stretch : Off)
	AGC		On (Low) / On(Mid), On(High) / Off
	Maximum shutter		max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/100 s, max. 1/60 s,
	Day & Night (ID)		max. 1/30 s, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30
	Day & Night (IR)		Off/On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC) 133 dB typ. (Super Dynamic : On, Light Control Mode : indoor)
	Dynamic Range Digital Noise Reduction		High / Low
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps
	Privacy Zone		Up to 8 zones
	VIQS		Up to 8 zones
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks)
	Focus Adjustment		ABF / MANUAL (Html only)
	Lens Distortion Compensation		
Lens		cal Length	2.8 mm - 10 mm {1/8 inches - 13/32 inches}, 3.6x
	Angular Field of View		[16 : 9 mode] Horizontal : 28.4 ° (TELE) - 96.2 ° (WIDE) Vertical : 16.1 ° (TELE) - 52.8 ° (WIDE) [4 : 3 mode] Horizontal : 28.4 ° (TELE) - 96.2 ° (WIDE)
	Maximum Aperture Ratio		Vertical : 21.4 ° (TELE) ~ 71.0 ° (WIDE) 1:1.3 (WIDE) ~ 1:3.0 (TELE)
	Focusing Range		0.3 m ~ ∞
Adjusting			Horizontal: ±100° (Camera mount bracket)
			Vertical : +30°, -90° (Camera mount bracket)
Browser	Cropping		Off/ JPEG(1)/ JPEG(2)/ JPEG(3)/ H.264(1)/ H.264(2)/ H.264(3)/ H.264(4)/ H.264(all)
GUI			Alarm action On/ Off
	Camera Control		Brightness, AUX On/Off
	Display	Mode	Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad
	D: 11.17		screens or 16 split screen (JPEG only). 20 characters camera title available
	Digital Zoom		1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters
	Camera Title 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 GUI / Setup Menu Language System Log		Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloade English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal)
	Supported OS *4		Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®
	Supported Browser		Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit),
Network	Network	IF	Windows® Internet Explorer® 7 (32 bit) 10Base-T / 100Base-TX, RJ45 connector
HELWOIK	. VOLVVOIP	Image Capture Mode :	1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
	Image	1.3 mega pixel [16.9] (30/60 fps)	.,
		Image Capture Mode :	1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /320 x 240 / 160 x 120
		1.3mega pixel [4:3] (30fps)	
		Transmission Mode	Constant bitrate / VBR / Framerate priority / Best effort / Advanced VBR
		Frame Rate Bit Rate/Client	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/
	H.264	Dit Hate/Ollerit	8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,720*/ 40,960* kbps
	*5	Image quality	Low(Motion priority) / Normal / Fine(Image quality priority)
		(Constant bit rate/Best effort)	
		Refresh interval	0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s
		Transmission Type	Unicast / Multicast
	JPFG	Image Quality	10 steps
	JPEG	Refresh interval	0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images
	Audio Compression		Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC
	Audio Compression Audio Mode		Off / Mic (Line) input / Audio output / Interactive (Half duplex) /
			Interactive (Full duplex)
	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, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP IPv4:TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP,
	FTP Client		DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP
			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: Manual REC / Alarm REC (Pre/Post) / Schedule REC/
	SDXC/SDHC/SD Memory Card (Option)		Backup upon network failure Compatible(JPEG only)
	Memory Card (Option) * Manufactured by Panasonic		JPEG recording : Manual REC / Alarm REC (Pre/Post) /
	(SD speed class 4 or higher)		Backup upon network failure Compatible
	* Use the SD memory card that complies with UHS-1		SD (SDHC/SDXC) card: Panasonic
	complies		2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64GB** model
		with LIHS_1	

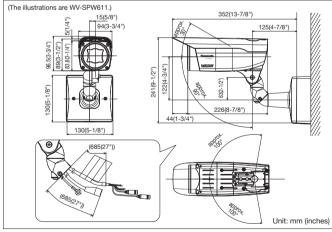
Network	Employment of two SD cards	Dual Recording for Redundancy
	, , ,	Series Recording for long time
	Cellular Phone Compatibility	JPEG image, AUX control (by access level)
	Mobile Terminal Compatibility	iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ Terminal
Alarm	Alarm Source	3 terminals input, VMD, Command alarm, Audio detection alarm
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification
		Indication on browser, FTP image transfer, Panasonic protocol output
	Alarm Log	With SDXC/SDHC/SD memory card :
	0.1.1.1	Up to 50,000 logs for each SD memory card
	Schedule	Alarm / VMD / Access permission / H.264 recording / Scene file
Input/	Monitor Output	VBS : 1.0 V [p-p]/75 Ω, composite, RCA jack
Output	(for adjustment)	An NTSC or PAL monitor can be connected to the camera
		(use the selector switch or software to select the monitor type).
	Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm monaural mini jack
		(monaural input) (Applicable microphone: Plug-in power type)
		Supply voltage : 2.5 V ± 0.5 V Input impedance : Approx. 2 k Ω (unbalanced)
	Audio Output	ø3.5 mm stereo mini jack (monaural output)
		Output impedance : Approx. 600 Ω (unbalanced)
	External I/O Terminals	ALARM IN 1 (DAY/NIGHT IN), ALARM IN 2 (ALARM OUT), ALARM IN 3 (AUX OUT)
General	Safety	UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1
	EMS	FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024
	Power Source and	WV-SPW611L:
	Power Consumption	When IR LED is On
		DC power supply: 12 V DC / 1080 mA / Approx. 12.9 W
		PoE Device: 48 V DC / 360 mA / Approx. 12.95 W* (Class 0 device)
		WV-SPW611:
		DC power supply: 12 V DC / 670 mA / Approx. 8.1 W
		PoE Device: 48 V DC / 230 mA / Approx. 11.1 W* (Class 0 device)
		* Maximum power consumption on the camera power input side.
		** ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY.
	Ambient Operating Temperature	-40 °C ~ +50 °C (-40 °F ~ 122 °F)
	Ambient Operating Humidity	10 ~ 90 % (no condensation)
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible,
		Type 4X(UL50), NEMA 4X compliant
	Dimensions	94 mm (W) x 89 mm (H) x 226 mm (L)
	* Installing using the base bracket	{3-3/4 inches (W) x 3-1/2 inches (H) x 8-7/8 inches (L)}
	Mass (approx.)	1.4 kg {3.09 lbs.}
	Finish	Main body : Aluminum die cast, light gray /

- | Front cover section clear part : Glear polycarbonate resin | YW-SPW611L only |
 2 Converted value | Super Dynamic function is automatically set off on 60 fps mode. |
 3 Super Dynamic function is automatically set off on 60 fps mode. |
 4 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® 8 or Microsoft® Windows® 7 or Microsoft® Windows® 8 or Microsoft® Win

Part Names and Functions



Appearance



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- Safety Precaution: Carefully read the Important Information, Installation Guide and operating instructions 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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