

Super Dynamic Full HD Weatherproof Network Camera WV-SPW631L

Super Dynamic Full HD Weatherproof Long Focus Type Network Camera

WV-SPW631LT



ri-VMD Type2 : Intruder Detection / Loitering Detection / Direction Detection / Scene Change Detection / Object Detection / Cross Line Detection

Full HD / 1,920 x 1,080 60 fps H.264 Weatherproof Network Camera featuring Super Dynamic

Key Features

- 1080p Full HD / 720p HD images up to 60 fps*1
- Approximate 1/2.8 inches, high sensitivity MOS image sensor
- Super high resolution at Full HD / 1,920 x 1,080 created by 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.
- Maximum Screen Size is 2,048 x 1,536* @30 fps, H.264 * Used by super resolution techniques
- Enhanced Super Dynamic¹¹ 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 (ICR*) function :
- WV-SPW631L : 0.04 lx (Color), 0.01 lx (B/W) at F1.3 WV-SPW631LT : 0.06 lx (Color), 0.02 lx (B/W) at F1.6 *ICR: IR Cut filter Removal
- IR LED equipped : The equipped infrared LED makes it possible to take pictures at zero lx.
- **IR LED** is controlled to match the environment, thereby the camera provides clear images of human faces without white blur.
- 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

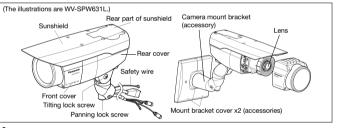
Specifications

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Angular	Field of View	
		WV-SPW631L [16:9 mode] Horizontal : 30.9 " (TELE) - 105.4 "(WIDE Vertical : 17.4 " (TELE) - 53.3 " (WIDE [4:3 mode] Horizontal : 25.8 " (TELE) - 86.4 " (WIDE
Maximum Aporturo Patio		WV-SPW631LT [16 : 9 mode] Horizontal : 13.8 ° (TELE) - 33.5 ° (WIDE Vertical : 7.7 ° (TELE) - 18.1 ° (WIDE [4 : 3 mode] Horizontal : 11.5 ° (TELE) - 27.4 ° (WIDE Vertical : 8.6 ° (TELE) - 20.1 ° (WIDE Vertical : 8.6 ° (TELE) - 20.1 ° (WIDE Vertical : 8.6 ° (TELE) - 20.1 ° (WIDE
Maximum Aperture Ratio Focusing Range		WV-SPW631L 1 : 1.3 (WIDE) - 1 : 3.0 (TELE) WV-SPW631LT 1 : 1.6 (WIDE) - 1 : 3.0 (TELE) WV-SPW631L : 0.3 m - ∞ / WV-SPW631LT : 1.0 m - ∞
Angle		Horizontal : ±100° (Camera mount bracket) Vertical : +30°, -90° (Camera mount bracket)
Cropping		Off/ JPEG(1)/ JPEG(2)/ JPEG(3)/ H.264(1)/ H.264(2)/ H.264(3)/ H.264(4)/ H.264(a)/ Alarm action On / Off
Display Mode		Brightness, AUX On / Off 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
Camera Title		1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters
Alarm Control		Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual) Reset
One Sho Audio	ot Capture	A still picture will be displayed on a newly opened window. Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High
		Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloade
System Log		English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error log
Supported OS *3		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), Windows® Internet Explorer® 7 (32 bit)
k Network IF Image Resolution		10Base-T / 100Base-TX, RJ45 connector •2 mega pixel [16 : 9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
		•2 mega pixel [4:3] (30 fps) 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 •3 mega pixel [4:3] (30 fps) • Used by super resolution techniques 2,048 x 1,58° / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12
	Transmission Mode	Constant bitrate / VBR / Framerate priority / Best effort / Advanced VBR
		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 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720*/ 40960* kbp
1.264 . 4	(Constant bit rate/Best effort) Refresh interval	Image quality (Constant bit rate / Best effort) : Low(Motion priority) / Normal/ Fine (Image quality priority) 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast
	Image Quality	10 steps
PEG		0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.)
udio C	ompression	Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC Off / Mid. I an input / Judia output / Interacting Half durings/ Interacting Full durings
Audio Mode Authentication for Audio		Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users
Total Bit Rate Supported Protocol		 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimite 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, DHCP, DNS, DDNS, NTP, SNMP, UPAP, IGMP, ICMP, ARP
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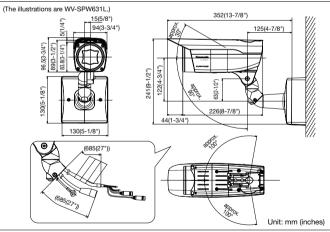
of Simultaneous Users (C/SDHC/SD nory Card (Option) nufactured by Pansonic apped class 4 or higher) the SD memoy card that peed class 10. loyment of two SD cards lay Phone Compatibility ile Terminal Compatibility m Source m Actions m Log edule	is failed, backup on an optional SDXC/SDHC/SD memory card is available.) Up to 14 users (Depends on network conditions) H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure Compatible(JPEG only) 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*, 64 GB** model "SDHC card, "* SDXC card (except miniSD card and microSD card) Dual Recording for Redundancy, Series Recording for long time JPEG image, AUX control (by access level) IPad, IPhone, iPod touch (iOS 4.2.1 or later), Android TM mobile termina 3 terminals input, VMD, Command alarm, Audio detection alarm SDXC/SDHC/SD memory card : Up to 50,000 logs for each SD memory card Alarm / VMD / Access permission / H.264 recording for Sed
C/SDHC/SD nory Card (Option) nurdcured by Panasonic speed class 4 or higher) the SD memory card that piles with UHS-1 al High Speed-1) in the case of speed Class 10. Ioyment of two SD cards ular Phone Compatibility ile Terminal Compatibility m Source m Actions m Log	H 264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure Compatible(JPEG only) JPEG recording : Manual REC / Alarm REC (Pre/Post) / Backup upon network failure Compatible SD (SDHC/SNC) card : Panasonic 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB** model *SDHC card, ** SDXC card (except miniSD card and microSD card) Dual Recording for Redundancy, Series Recording for long time JPEG image, AUX control (by access level) IPad, IPhone, IPod touch (IOS 4.2.1 or later), Android TM mobile terminal 3 terminals input, VMD, Command alarm, Audio detection alarm SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notificatio Indication on browser, FTP image transfer, Panasonic protocol output With SDXC/SDHC/SD memory card : Up to 50,000 logs for each SD memory card
nory Card (Option) rulactured by Parasonic speed class 4 or higher) the SD memory card that ples with UR-51 la High Speed: 1 in the case of peed Class 10. Ioyment of two SD cards. Jar Phone Compatibility lie Terminal Compatibility m Source m Actions m Log	Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure Compatible(JPEG only) 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', 64 GB'* model *SDHC card, ** SDXC card (except minISD card and microSD card) Dual Recording for Redundancy, Series Recording for long time JPEG image, AUX control (by access level) iPad, IPhone, iPod touch (iOS 4.2.1 or later), Android TM mobile terminal 3 terminals input, VMD, Command alarm, Audio detection alarm SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notificatio Indication on browser, FTP image transfer, Panasonic protocol output With SDXC/SDHC/SD memory card :
nufactured by Panasonic speed class 4 or higher) the SD memory card that ples with UHS-1 shigh Speed-1) in the case of speed Class 10. loyment of two SD cards Jair Phone Compatibility lie Terminal Compatibility m Source m Actions m Log	Backup upon network failure Compatible(JPEG only) 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', 64 GB'' model "SDHC card, "* DDXC card (except miniSD card and microSD card) Dual Recording for Redundancy, Series Recording for long time JPEG image, AUX control (by access level) iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android [™] mobile termina 3 terminals input, VMD, Command alarm, Audio detection alarm SDXC/SDHC/SD memory recording, E-mail notification, HTP alarm notificatio Indication on browser, FTP image transfer, Panasonic protocol output With SDXC/SDHC/SD memory card : Up to 50,000 logs for each SD memory card
speed class ¹ or higher) the SD memory card that piles with UHS-1 al High Speed-1) in the case of speed Class 10. Ioyment of two SD cards lar Phone Compatibility ile Terminal Compatibility m Source m Actions m Log	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*, 64 GB** model "SDHC card, ** SDXC card (except miniSD card and microSD card) Dual Recording for Redundancy, Series Recording for long time JPEG image, AUX control (by access level) IPad, IPhone, IPod touch (IOS 4.2.1 or later), Android TM mobile terminal 3 terminals input, WND, Command alarm, Audio detection alarm SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notificatio Indication on browser, FTP image transfer, Panasonic protocol output With SDXC/SDHC/SD memory card : Up to 50,000 logs for each SD memory card
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	With SDXC/SDHC/SD memory card : Up to 50,000 logs for each SD memory card
	With SDXC/SDHC/SD memory card : Up to 50,000 logs for each SD memory card
edule	
edule	
itor Output	VBS : 1.0 V [p-p]/75 Ω, composite, RCA jack
	An NTSC or PAL monitor can be connected to the camera
adjuotinonty	(use the selector switch or software to select the monitor type).
rophone/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 kΩ (unbalanced
io Output	ø3.5 mm stereo mini jack (monaural output)
	Output impedance : Approx. 600 Ω (unbalanced)
rnal I/O Terminals	ALARM IN 1 (DAY/NIGHT IN), ALARM IN 2 (ALARM OUT), ALARM IN 3 (AUX OUT
ety	UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-
3	FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024
er Source and	When IR LED is On
	DC power supply : 12 V DC / 1080 mA / Approx. 12.9 W
	PoE (IEEE802.3af compliant) : 48 V DC / 360 mA / Approx. 12.95 W* (Class 0 device
	* Maximum power consumption on the camera power input side.
	** ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY.
ient Operating Temperature	-40 °C to +50 °C (-40 °F to 122 °F)
	10 to 90 % (no condensation)
er and Dust Resistance	IP66, IEC60529 measuring standard compatible, Type 4X(UL50),
	NEMA 4X compliant
ensions	94 mm (W) x 89 mm (H) x 226 mm (L)
alling using the base bracket	{3-3/4 inches (W) x 3-1/2 inches (H) x 8-7/8 inches (L)}
0 0	1.4kg {3.09 lbs.}
sh	Main body : Aluminum die cast, light gray / Front cover section clear part : Clear polycarbonate resi
	er Source and er Consumption ent Operating Temperature ient Operating Humidity er and Dust Resistance ensions ling using the base bracket 5 (approx.)

Converted value *2 Super Dynamic function is automatically set off on 60 fps mode.
 '3 Reier to 'Notes on Windows Vista" / Windows® 6' on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsofte Windows® 6' on Microsoft® Windows® 7 or Microsoft® Windows Vista®.
 '4 Transmission for 4 streams can be individually set.

Part Names and Functions



Appearance



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 Important
 Important
 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.

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