

Super Dynamic Full HD Vandal Resistant & Waterproof Dome Network Camera

WV-SFV631LT



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

Key Features

- 1080p Full HD / 720p HD images up to 60 fps*1
- Approximate 1/3 inches, high sensitivity MOS image sensor
- Super high resolution at Full HD/1,920 x 1,080 created by high sensitivity MOS 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.
- Maximum Screen Size is 2,048 x 1,536* @30fps, H.264
 * Used by super resolution techniques
- 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 conditions of the Power National Office of the PANA at 51.6.
- High sensitivity with Day & Night (IR) function:0.06 lx (Color), 0.015 lx (B/W) at F1.6
 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.
- New camera attachment bracket allows an easy camera installation toward all four directions.
- 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/60Hz): 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.
- Newly developed dome cover provides clearer images above the horizontal.
 Thereby, it expands the tilting range of the lens.
- Face detection function detects the position of human face and the information is sent by XML or video stream. (Optional)
- Can be added new intelligent extension software (Optional) in addition to built-in VMD (Video Motion Detection), alarm function.
- Fog compensation function equipped as standard.
- HLC (High Light Compensation) technology reduces strong light sources such as vehicle headlights to prevent camera being blinded.
- Super Chroma Compensation function realizes a better color.
- 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
- · Vandal resistant mechanism for high reliability

*1 Super Dynamic function is automatically set off on 60fps mode.

Optional Accessories

Ceiling Mount Bracket
WV-Q169A



Smoke Dome Cover WV-CW7S



Sun Shade WV-Q7118



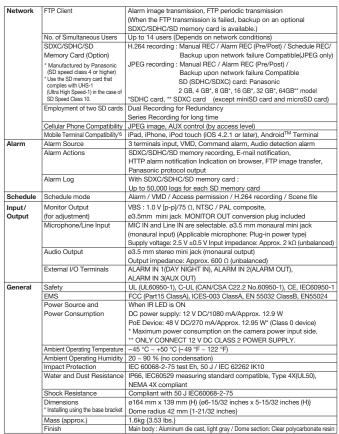
Camera	Scannir	e Pixels ng Mode ng Area	Approx. 1/3 type MOS image sensor Approx. 2.4 mega pixels Progressive scan
	Scannir Scannir	ng Mode ng Area	
	Scannir	ng Area	Progressive scan
	Minimu		5.346 mm (H) x 3.336 mm (V) {7/32 inches (H) x 1/8 inches (V)}
		m Illumination	Color: 0.06 lx, BW: 0.015 lx (F1.6, Maximum shutter : Max. 1/30s, Gain : On(High))
			BW: 0 lx (F1.6, Maximum shutter: Off(1/30 s), Gain: High, when the IR LED is lit)
			Color: 0.0045 lx, BW: 0.0011 lx (F1.6, Maximum shutter : Max. 16/30s, Gain : On(High)) *
	IR LED Light		Off/Auto(High/Mid/Low)
	IR LED irradiation distance		33 m (108.24 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 : Automatic integration of ALC and ELC
	Light Control Mode		Indoor scene [50 Hz]: Automatic integration of ALC and ELC with flickerless Indoor scene [60 Hz]: Automatic integration of ALC and ELC with flickerless
	Shutter Speed		[2 mega pixel [16:9](60 fps mode)/ 1.3 mega pixel [16:9](60 fps mode)] OFF(1/60), 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/2000, 1/4000, 1/1000 Other than [2 mega pixel [16:9](60 fps mode)/ 1.3 mega pixel [16:9](60 fps mode)] OFF(1/30), 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/550, 1/500, 1/1000, 1/2000, 1/4000, 1/1000
İ	Super Dynamic *2		On(High) / On(Normal) / Off
	Face Super Dynamic		On/Off (only when Super Dynamic : On)
	Adaptive Black Stretch		On/Off (only when Super Dynamic Off)
	Fog compensation		On/Off (only when Super Dynamic/ Adaptive black stretch: Off)
-	AGC		
-	Maximum shutter		On (Low)/ On (Mid)/ On (High)/ Off
			max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/100 s, max. 1/60 s, max. 1/30 s, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30
		light (IR)	On/Off / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
	Dynamic Range		133 dB typ. (Super Dynamic : On, Light Control Mode : indoor)
	Digital Noise Reduction		High / Low
	Video Motion Detection		On/Off, 4 areas, Sensitivity: 15 steps, Detection size: 10 steps
ŀ	Privacy Zone		On/Off (up to 8 zones available)
	VIQS		On/Off (up to 8 zones available)
	Camera Title (OSD)		On/Off Up to 20 characters (alphanumeric characters, marks)
			TELE / WIDE , Auto Coarse adjustment of Focus
ļ	Electric Zoom		
	Focus Adjustment		ABF / MANUAL(Html only)
	Lens Distortion Compensation		256 steps
Lens	Vari Focal Length		9.0 ~ 22 mm, 2.4x {23/64 inches - 7/8 inches}
	Angular Field of View		[16:9 mode] Horizontal: 13.8° (TELE) – 33.0° (WIDE)
			Vertical: 7.7° (TELE) – 17.8° (WIDE)
			[4:3 mode] Horizontal: 11.5° (TELE) – 27.0° (WIDE)
			Vertical : 8.6° (TELE) – 19.9° (WIDE)
	Maximum Aperture Ratio		1 : 1.6 (WIDE) ~ 1 : 3.0 (TELE) *with Smart DOF (Depth of Field) mode
	Focusing Range		1 m ~ ∞
Adjusting Angle			Horizontal: ±180°, Vertical: 0-85°,
			Image tilt adjustment range: -45° (Left) to +300° (Right)
Browser	Cropping		H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(3
GUI			Up to 4 image capture areas can be specified
GOI			
	Display Mode Digital Zoom		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
			1x, 2x, 4x controlled by browser GUI
	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		Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloade
	GUI / Setup Menu Language		English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
	System Log		Up to 100 (Internal)
	System Log		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,
	Suppor	00 0	
			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)
Network	Network		10Base-T / 100Base-TX, RJ-45 connector
		Image Capture Mode:	1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
		2 mega pixel [16:9] (30/60 fps)	
	Image	Image Capture Mode:	1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /
		2 mega pixel [4:3] (30fps)	320 x 240 / 160 x 120
		Image Capture Mode:	2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 /
		3 mega pixel [4:3] (30fps)	320 x 240 / 160 x 120 * Used by super resolution techniques
ŀ			Constant bitrate / Framerate priority / Best effort / Advanced VBR
		Frame Rate	1/3/5/7.5/10/12/15/20/30/60 fps
	H.264 *4	Bit Rate/Client	
		DIL DAIE/OIIEITI	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 kbps
		Image Quality	LOW / NORMAL / FINE
		Refresh interval	0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s
		Transmission Type	Unicast / Multicast
		Image Quality	10 steps
	l	Refresh interval	0.1 fps - 30 fps
	JPEG		(JPEG frame rate will be restricted when displaying both JPEG and H.264 images.
	JPEG		Pull / Push
		Transmission Type	
	Audio C	Compression	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC*5
	Audio C	Compression Mode	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC'5 Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
	Audio C	Compression	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC*5
	Audio C	Compression Mode ication for Audio	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC'5 Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users
	Audio C Audio M Authent Total Bi	Compression Mode ication for Audio t Rate	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC'5 0ff / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimitec
	Audio C Audio M Authent Total Bi	Compression Mode ication for Audio	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC'5 Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP,
	Audio C Audio M Authent Total Bi	Compression Mode ication for Audio t Rate	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC'5 0ff / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimitec

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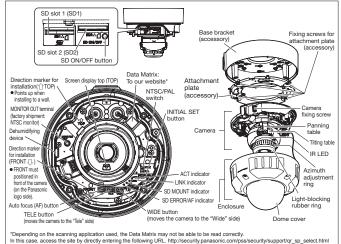
- Safety Precaution: Carefully read the Important Information, Installation Guide and operating instructions before using this product.
- Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.
- Masses and dimensions are approximate. Specifications are subject to change without notice.

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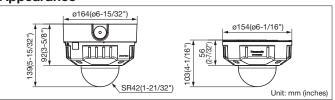


- *1 Converted value
- 1 Converted value
 2 Super Dynamic function is automatically set off on 60fps mode.
 3 Refer to "Notes on Windows Vista® / Windows® 7 / Windows® 8" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.
 4 Transmission for 4 streams can be individually set.
- *5 AAC-LC (Advanced Audio Coding Low Complexity) is only used when recording audio on an SD memory card.
 *6 For further information about compatible devices, refer to our website(http://security.panasonic.com/pss/security/support/info.html).

Part Names and Functions



Appearance



Panasonic