

Super Dynamic Full HD Vandal Resistant **Dome Network Camera WV-SFR531**



*i-VMD Type2 : Intruder Detection / Loitering Detection / Direction Detection / Scene Change Detection / Object Detection / Cross Line Dete

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

Key Features

- 1080p Full 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 image sensor.
- Multiple H.264 (High profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real time monitoring and high resolution recording by 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 sensitivity with Day/Night (ICR*) function: 0.07 lx (Color), 0.01 lx (B/W) at F1.6 *ICR: IR Cut filter Removal
- ABF (Auto Back Focus) ensures easy installation.
- 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.
- SDXC/SDHC/SD Memory card slot 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.(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.
- SCC (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
- · Vandal resistant mechanism for high reliability

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

Optional Accessories

Ceiling Mount Bracket WV-Q105A



Ceiling Mount Bracket WV-Q174B



Smoke Dome Cover WV-CR1S



Specifications

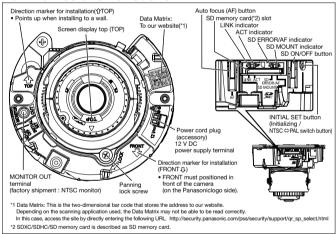
		ations Sensor	Approx. 1/3 type MOS image sensor
Camera	Image Sensor Effective Pixels		Approx. 1/3 type MOS image sensor Approx. 2.4 mega pixels
			Progressive scan
	Scanning Mode Scanning Area		5.28 mm (H) × 3.30 mm (V) {7/32 inches(H) x 1/8 inches(V) }
		m Illumination	Color: 0.07 lx, BW: 0.01 lx (F1.6, Maximum shutter: Max. 1/30s, Gain: On(High))
			Color: 0.005 lx, BW: 0.0007 lx (F1.6, Maximum 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 of ALC and ELC
			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)]
			Off(1/60), 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
			Other than [2 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
	Super Dynamic*2		On(High) / On(Normal) / Off
	Face S	uper 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		On (Low, Mid, High) / Off
	Electronic Sensitivity UP		max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/120 s, max. 1/100 s max. 1/60 s, max. 1/30 s, max. 2/120 s, max. 2/100 s, max. 2/30 s,
			max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s
	Day/Night (ICR)		Off / On / 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		4 areas, Sensitivity: 15 steps, Detection size: 10 steps
	Privacy Zone VIQS		Up to 8 zones Up to 8 zones
	Focus Adjustment		ABF / MANUAL(Html only)
	Lens Distortion Compensation		256 steps
Lens		cal Length	2.8 - 9.5 mm {1/8 inches – 13/32 inches}
	Angula	r Field of View	[16:9 mode] Horizontal: 31° (TELE) – 109° (WIDE)
			Vertical : 18° (TELE) – 59° (WIDE)
			[4:3 mode] Horizontal: 26° (TELE) – 89° (WIDE)
			Vertical : 20° (TELE) – 66° (WIDE)
	Maximum Aperture Ratio		1 : 1.6 (WIDE) - 1 : 3.3 (TELE)
	Focusing Range		0.3 m - ∞
Adjusting	g Angle		Horizontal: +120°(right) to -240°(left), Vertical: ±85°,
			Image tilt adjustment range: -100°(Left) to +100°(Right)
Browser	Croppi	ng	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
	Camera Control		Brightness, AUX On / Off
	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 Zoom		1x, 2x, 4x controlled by browser GUI
	Camera Title		Up to 20 alphanumeric characters
	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 downloaded
		etup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
	System	ı Log	Up to 100 (Internal),
			Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs
	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)
Network	Network IF		10Base-T / 100Base-TX, RJ45 connector
	Image Resolution		• 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 120
			• 3 mega pixel [4:3] (30 fps)
			2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120
			*Used by super resolution techniques
		Transmission Mode	
		Frame Rate	1/3/5/7.5/10/12/15/20/30/60 fps
	l	Bit Rate/Client	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 /
	H.264 *4		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
	JPEG	Refresh interval	0.1 fps - 30 fps
			(JPEG frame rate will be restricted when displaying both JPEG and H.264 images.)
		Transmission Type	Pull / Push
	Audio Compression		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) /
	Audio Mode		Interactive (Full duplex)
	Authentication for Audio Total Bit Rate		Level 1 only / Level 2 higher / All users
			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,
	очрро.		I DRCPVO, RTP, MILD, ICIVIP. ARP
	Сарро		DHCPv6, RTP, MLD, ICMP, ARP IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP,
	Сарро		IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP,
	FTP Cli	ent	IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP
		ient	IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP,

SDXC/SDHC/SD memory card is available.)

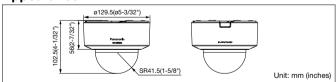
Network	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD	H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC /
	Memory Card (Option)	Backup upon network failure
	* Use the SD memory card	JPEG recording : Manual REC / Alarm REC (Pre/Post) /
	manufactured by Panasonic (SD speed class 4 or higher).	Backup upon network failure
	and in the case of SD Speed	Compatible SD (SDHC/SDXC) card: Panasonic
	Class 10, that complies with	2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64GB** model
	UHS-1(Ultra High Speed-1).	*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Cellular Phone Compatibility	JPEG image, AUX control (by access level)
	Mobile Terminal Compatibility	iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile terminals
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 :
		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, NTSC / PAL composite,
Output	(for adjustment)	ø3.5mm mini jack MONITOR OUT conversion plug included
	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 kΩ (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	DC power supply: DC12 V / 450 mA / Approx. 5.4 W
	Power Consumption	PoE Device: DC48 V / 110 mA / Approx. 5.3 W (Class 2 device)
		* ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY.
	Ambient Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)
	Ambient Operating Humidity	10 to 90 % (no condensation)
	Shock Resistance	Compliant with 20J IEC60068-2-75/ IEC 62262 IK10
	Dimensions	ø129.5 mm x 102.5 mm (H) {ø5-3/32 inches x 4-1/32 inches (H)}
		Dome radius 41.5 mm {1-5/8 inches}
	Mass (approx.)	Approx. 0.70 kg {1.54 lbs}
	Finish	Main body : Aluminum die cast, sail white
		Dome section : Clear polycarbonate resin

- *1 Converted value
 *2 Super Dynamic function is automatically set off on 60 fps mode.
- *3 Refer to "Notes on Windows Vista® / Windows® 7 / Windows® 8 / Windows® 8.1" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 8.1 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.
 *4 Transmission for 4 streams can be individually set.
- *5 Component that has a structure on which the screws that are accessible after installation can not be screwed or unscrewed using an ordinary screwdriver.

Part Names and Functions



Appearance



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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.
- Masses and dimensions are approximate. Specifications are subject to change without notice.

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