

Super Dynamic Full HD PTZ Dome Network Camera WV-SC588



Full HD / 1,920 x1,080 H.264 Camera featuring Optical 30x zoom and Super Dynamic

Key Features

- 1080p Full HD images up to 30 fps
- Super high resolution at Full HD / 1,920 x 1,080 created by 2.4 Megapixel high sensitivity MOS image 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
- 30x optical zoom
 90x extra optical zoom at 640x360 resolution with 12x digital zoom
 enabling 1080x zoom.
- Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- Face Super Dynamic technology ensures clear face image.
- High sensitivity with Day/Night (ICR*) function: 0.5 lx (Color), 0.06 lx (B/W) at F1.6
 * ICR: IR Cut filter Removal
- 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.
- VIQS can be set on preset position (1 to 8) and except preset.
- 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:
- 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.

- 360 degrees endless Panning
- Advanced auto tracking: The camera automatically pans and tilts to follow a moving subject and keep it in the center of the image.
- PTZ control can be taken very smoothly on the user friendly GUI with 16 speeds pan/tilt and new "Drag and Zoom" operation enabling finer control.
 256 speeds available for system with WV-CU950 system controller.
- Up to 256 preset positions
- 360 map shot: 8 thumbnail images at 45 deg. intervals make it simple to direct the camera easily by clicking on a thumbnail.
- Industrial grade Pan / Tilt / Zoom mechanism for high reliability
- VMD (Video Motion Detection) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 32 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 (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.
- 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
- Fog compensation function equipped as standard.
- Dust-resistant design: Minimize degradation of pan/tilt mechanism

Standard Accessories

CD-ROM*11 pc. Installation Guide1 pc. Code Label*21 pc.	Decorative Cover1 pc. Power cable Plug1 pc.
The followings are for installation. • Camera Mount Bracket	*1 The CD-ROM contains the operating instructions (PDFs) 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



This catalog is provided for all over the world. Some accessories may not be available in some countries

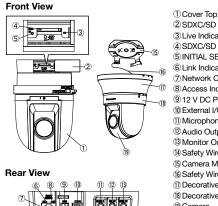
Specifications

Camera	Image Ser Effective P		Approx. 1/3 type MOS image sensor Approx. 2.4 mega pixels
	Scanning I	Vode	Progressive scan
	Scanning / Minimum I	Area Ilumination	5.38 mm(H) x 3.02 mm(V) [7/32 inches(H) x 1/8 inches(V)] Color: 0.5 k, BW: 0.06 k (F1.6, Auto slow shutter: Off (1/30s), Gain:On(High)) Color: 0.4 k, BW: 0.04 k (F1.6, Auto slow shutter: May 16/(0.6) Coix:On(High))
	White Bala Light Cont		Color: 0.03 lx, BW 0.004 lx (F1.6, Auto slow shutter: Max. 16/30s, Gain:On(High)) * AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K) Outdoor scene: Automatic integration of ALC and ELC
			Indoor scene [50 Hz]: Automatic integration of ALC and ELC (up to 1/100 s) Indoor scene [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 s) Fix shutter
	Shutter Sp		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, 1/1000
	Super Dyn		On / Off
	Face Supe Dynamic F		On / Off (Only when Super Dynamic: On) 105 dB typical (Super Dynamic: On, Light Control mode: Indoor)
	Adaptive E	Black Stretch	On / Off (Only when Super Dynamic: Off)
	Fog comp	ensation	On / Off
	AGC Electronic	Sensitivity UP	On (Low) / On (Mid) / On (High) / Off Off / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s))
	Day & Nigl	nt (ICR)	Mode: AUTO1 / AUTO2 / AUTO3 / On / Off, Level: High / Low, with external contro
	Video Mot	se Reduction on Detection	High / Low 4 areas, Sensitivity: 15 steps, Detection size: 10 steps
	Privacy Zo VIQS	ne	Gray / Mosaic / Off (up to 32 zones available) Up to 2 zones at preset position 1-8 and except preset
	Auto Imag	e Stabilizer	On / Off
	Camera Ti		Up to 20 characters (alphanumeric characters, marks)
Lens	Focus dist Focal Leng		Limited / Unlimited 4.3 mm to 129.0 mm, 30x
	Zoom Ratio		30x / 90x with extra optical zoom (at 640 x 360)
	Digital (Electrical) Zoom		12x (Max. 1080x combined with extra optical zoom at 640 x 360)
	Angular Field of View Maximum Aperture Ratio		H: 2.34° (TELE) - 65.1° (WIDE) V: 1.36° (TELE) - 38.4° (WIDE) 1 : 1.6 (WIDE) - 4.7 (TELE)
	Focusing Range		2.0 m - ∞
	Aperture F		F1.6 - Close
Pan and Tilt	Panning R Panning S		360° endless Manual: approx. 0.065°/s - 120°/s, Up to 256 steps (depending on the controller
	Tilting Range		Preset: up to approx. 300°/s -25° to 205° (upward-level-downward)
	Tilting Speed		Selectable tilting angle: 10 °/ 5 °/ 3 °/ 0 °/ -3 °/ -5 °/ -10 °/ -15 °/ -20 °/ -25 °/ Manual: approx. 0.065% to 120%, Up to 256 steps (depending on the controller) Preset: up to approx. 300%
	Proportional Pan/Tilt Control		Yes
	Number of Preset Positions		256
	Auto Mode Image Hol		preset sequence / auto pan / auto track / patrol On / Off
	PTZ Position Display		On / Off
	Self Return		10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 min
	Map Shot		360° map shot / preset map shot
Browser GUI	Camera Control Display Mode		Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad
	Camera Title		screens or 16 split screen (JPEG only). 20 characters camera title available 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 Audio		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
	SD Memory Data Download		Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded
	GUI/Setup Menu Language		English / Italian / French / German / Spanish / Russian / Chinese / Japanese
	System 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 *2 *3 Supported Browser		Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3 Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit)
	Supported Browser		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	Image Capture Mode: 2 mega pixel [16:9]	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
		Image Capture Mode: 1.3 mega pixel [16:9]	H.264 : 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
		Image Capture Mode: 1.3 mega pixel [4:3]	H.264 : 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
	H.264 *4	Transmission Mode	Constant bitrate / Frame rate priority / Best effort / Advanced VBR
		Frame Rate	1/3/5/7.5/10/12/15/20/30 fps
		Bit Rate/Client	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
		Refresh Interval Transmission Type	0.27 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast
	JPEG	Image Quality Refresh Interval	10 steps 0.1 fps to 30 fps
	Transmission Type Audio Compression		Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AD0 fee surface and Audia detection
	Audio Mode		AAC for audio recording and Audio detection Off / Mic (Line) input / Audio output / Interactive (Half duplex) /
	Authentication for Audio		Interactive (Full duplex) 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, 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

Network	SDXC/SDHC/SD	H.264 recording (Audio recording is enable): Manual REC / Alarm REC
	Memory Card (Option)	(Pre/Post) / Schedule REC
		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
Alarm	Alarm Source	3 terminals input, VMD, Command alarm, Audio 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 / Audio detection
Input/	Monitor Output	VBS: 1.0V[p-p] / 75Ω,
Output	(for adjustment)	NTSC / PAL composite, ø3.5 mm monaural mini jack
Output	Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm stereo mini jack
		(monaural input) (Applicable microphone: Plug-in power type)
		Supply voltage: 2.5 V \pm 0.5 V Input impedance: approx. 2 k Ω
	Audio Output	ø3.5 mm stereo mini jack (monaural output) Line level
	External I/O Terminals	ALARM IN 1 (DAY/NIGHT IN), ALARM IN 2 (ALARM OUT), ALARM IN 3 (AUX OUT)
General	Safety/EMC Standard	<safety></safety>
General	Saloty, Ellio Standard	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	DC power supply: 12 V DC / 1.0 A / 12 W
	Power Consumption	PoE device: 48 V DC / 250 mA / Approx. 12 W (Class 0 device)
	l'ower oonsumption	* FOR UL LISTED MODEL(S). ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY
		(UL 1310/CSA 223) or LIMITED POWER SOURCE (IEC/EN/UL/CSA 60950-1).
	Ambient Operating Temperature	PoE: -10°C to +55°C (14 °F to 131 °F)
	Ambient Operating Humidity	Less than 90 % (no condensation)
	Dimensions	ø185 mm x 211 mm (H) {ø7-9/32 inches x 8-5/16 inches (H)}
	Dimensions	(including the decorative covers)
	Mass (approx.)	Approx. 1.5 kg {3.31 lbs}
	Finish	Main body: ABS resin, sail white

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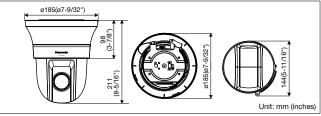
Part Names and Functions



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2 SDXC/SD Memory Card Slot Cover ③Live Indicator (4) SDXC/SD Memory Card Slot ⑤ INITIAL SET Button 6 Link Indicator(lit when linking) ⑦Network Connector 8 Access Indicator (blinks when accessing) (9) 12 V DC Power Supply Terminal 1 External I/O Terminals 1 Microphone/line Input Connector 12 Audio Output Connector ¹ Monitor Out Connector for Adjustment () Safety Wire Holder (5) Camera Mount Bracket (accessory) (16) Safety Wire (fixed with the mount bracket) 1 Decorative Cover Upper (accessory) 18 Decorative Cover Lower (accessory) 19 Camera

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.
 All product pictures are NTSC models.



http://security.panasonic.com

http://www.facebook.com/PanasonicNetworkCamera (2A-107CA)

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