Panasonic

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

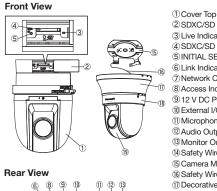
Specifications

Camera	Image Ser Effective P		Approx. 1/3 type MOS image sensor Approx. 2.4 megapixel	
	Scanning I		Progressive scan	
	Scanning /		5.38 mm(H) x 3.02 mm(V) [7/32 inches(H) x 1/8 inches(V)]	
	White Bala		Color: 0.5 kx, BW: 0.06 kx (F1.6, Auto slow shutter: Off (1/30s), Gain:On(High)) Color: 0.03 kx, BW 0.004 kx (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)	
	Light Control Mode		Outdoor scene: Automatic integration of ALC and ELC Indoor scene [50 H2]: Automatic integration of ALC and ELC (up to 1/100 s) Indoor scene [60 H2]: Automatic integration of ALC and ELC (up to 1/120 s) Fix shutter	
			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 Dyn Face Supe		On / Off On / Off (Only when Super Dynamic: On)	
	Face Super Dynamic Adaptive Black Stretch Fog compensation		On / Off (Only when Super Dynamic: Off) On / Off	
	Day & Nigl		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)) Mode: AUTO1 / AUTO2 / AUTO3 / On / Off, Level: High / Low, with external control	
	Video Mot Privacy Zo	se Reduction ion Detection ne	High / Low 4 areas, Sensitivity: 15 steps, Detection size: 10 steps Gray / Mosaic / Off (up to 32 zones available)	
	VIQS Auto Imag Camera Tr	e Stabilizer tle (OSD)	Up to 2 zones at preset position 1-8 and except preset On / Off Up to 20 characters (alphanumeric characters, marks)	
	Focus dist		Limited / Unlimited	
Lens	Focal Length Zoom Ratio		4.3 mm to 129.0 mm, 30x 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: 2.6° (TELE) - 64.6° (WIDE) V: 1.6° (TELE) - 38.2° (WIDE) 1 : 1.6 (WIDE) - 4.7 (TELE)	
	Focusing F		1 : 1.6 (WIDE) - 4.7 (TELE) 2.0 m - ∞	
	Aperture Range		F1.6 - Close	
Pan and Tilt	Panning R		360° endless Manual: approx. 0.065°/s - 120°/s, Up to 256 steps (depending on the controller)	
	Panning Speed 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°/s to 120°/s, Up to 256 steps (depending on the controller) Preset: up to approx. 300°/s	
		al Pan/Tilt Control	Yes	
		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	
			screens or 16 split screen (JPEG only). 20 characters camera title available	
	Camera Title Clock Display Alarm Control		Up to 20 alphanumeric characters Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual) 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,	
	SD Memory Data Download		Audio Output: On / Off Volume adjustment: Low / Middle / High 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)	
	Supported OS *2 *3		Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3	
	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	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 × 960 / VGA(640 × 480) / QVGA(320 × 240), up to 30 fps JPEG (MJPEG): 1,280 × 960 / VGA(640 × 480) / QVGA(320 × 240), up to 30 fps	
	H.264 *4	Transmission Mode	Constant bitrate / Frame rate priority / Best effort / Advanced VBR	
		Frame Rate Bit Rate/Client	1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 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 kbps	
		Image Quality Refresh Interval	Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s	
	JPEG	Transmission Type Image Quality Refresh Interval	Unicast / Multicast 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,	
	Audio Mode		AAC for audio recording and Audio detection 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 Supported Protocol		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 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,	
	FTP Client		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 nd dimensions are approx			

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 ±0.5 V Input impedance: approx. 2 kΩ
	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	<safetv></safetv>
aonorai		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)
		* 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)}
		(including the decorative covers)
	Mass (approx.)	Approx. 1.5 kg {3.31 lbs}

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Part Names and Functions

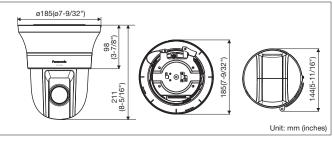


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2 SDXC/SD Memory Card Slot Cover ③Live Indicator (4) SDXC/SD Memory Card Slot ⑤ INITIAL SET Button 6 Link Indicator(lit when linking) ⑦Network Connector 8 Access Indicator (blinks when accessing) (9) 12 V DC Power Supply Terminal 1 External I/O Terminals 1 Microphone/line Input Connector ①Audio 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 Lower (accessory) 18 Decorative Cover Upper (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.



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