Panasonic BUSINESS

Super Dynamic Full HD PTZ Dome Network Camera WV-SC588A



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
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording.
- 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:
 0.15 lx (Color), 0.018 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.
- Smart coding Technology: Group of Pictures (GOP) control function removes unnecessary information from the frame for realizing efficient encoding.
- **GOP control** can save the network bandwidth and the disk space of recorder effectively.
- 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.
- 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 / Portuguese / Russian / Chinese / Japanese
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- Fog compensation function equipped as standard.
- Dust-resistant design: Minimize degradation of pan/tilt mechanism

Standard Accessories

Optional Accessories



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

DISTRIBUTED BY:

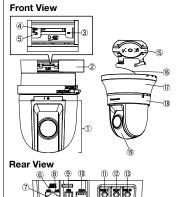
Camera	Image Ser		Approx. 1/3 type MOS image sensor
	Scanning Mode		Progressive scan
	Scanning Area		5.35 mm(H) x 3.34 mm(V) [7/32 inches(H) x 1/8 inches(V)]
	Minimum Illumination		Color: 0.15 Ix, BW: 0.018 Ix (F1.6, Auto slow shutter: Off (1/30s), Gain:On(High)) Color: 0.009 Ix, BW 0.001 Ix (F1.6, Auto slow shutter: Max. 16/30s, Gain:On(High))
	White Balance Light Control Mode		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
	Shutter Speed		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 Dynamic		On / Off
	Face Super Dynamic		On / Off
	Dynamic Range		105 dB typical (Super Dynamic: On, Light Control mode: Indoor) *Theoretical value. Conventional measuring method: 52 dB
	Adaptive Black Stretch Fog compensation		On / Off On / Off (Super Dynamic and Adaptive black stretch: Off)
	Gain (AGC)		On (High) / On (Mid) / On (Low) / Off
	Auto slow shutter		Off (1/30 s), max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s Mode: AUTO1 / AUTO2 / AUTO3 / On / Off, Level: High / Low, with external contro
	Day & Night (ICR) Digital Noise Reduction		High / Low
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps
	Privacy Zone		Gray / Mosaic / Off (up to 32 zones available)
	VIQS Auto Image Stabilizer		On / Off Up to 2 zones at preset position 1-8 and except preset On / Off
	Camera Title (OSD)		On / Off Up to 20 characters (alphanumeric characters, marks)
	Focus distance		Limited(around 1.5m(4.9 ft)) / Unlimited
Lens	Focal Length Zoom Ratio		4.3 mm to 129.0 mm {3/16 inches - 5-3/32 inches} 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		H: 2.3° (TELE) - 64° (WIDE), V: 1.3° (TELE) - 38° (WIDE) ([16:9] mode) H: 1.7° (TELE) - 46° (WIDE), V: 1.3° (TELE) - 38° (WIDE) ([4:3]mode)
	Maximum Aperture Ratio		1 : 1.6 (WIDE) - 4.7 (TELE) 2.0 m - ∞
	Focusing Range Aperture Range		2.0 m - ∞ F1.6 - Close
Pan and Tilt	Panning Range		360° endless
	Panning Speed		Manual: approx. 0.065 % - 120 %, Up to 256 steps (depending on the controlled Preset: up to approx. 300 %
	Tilting Range		-25° to 205° (upward-level-downward) Selectable tilting angle: 10 °/ 5 °/ 3 °/ 0 °/ -3 °/ -5 °/ -10 °/ -15 °/ -20 °/ -25
	Tilting Speed		Manual: approx. 0.065% to 120%, Up to 256 steps (depending on the controller Preset: up to approx. 300% s
	Proportional Pan/Tilt Control Number of Preset Positions		Yes 256
	Auto Mode Image Hold		Auto track / Auto pan / Preset sequence / 360 map-shot / Patrol On / Off
	Camera position display		Off / Pan-Tilt degree · Zoom ratio display / Direction display
	Self Return Map Shot		10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 min 360° map shot / preset map shot
Browser GUI	Camera Control		Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode
	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
	Camera Ti Clock Disp		Up to 20 alphanumeric characters 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		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 / Portuguese / 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		Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®
	Supported Browser Network IF		Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit
			Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit),
Network			Windows® Internet Explorer® 7 (32 bit) 10Base-T / 100Base-TX, RJ45 connector
ileawork.	Image Resolution		2 mega pixel [16 : 9](30 fps)
	H.264		1,920 x 1,080 / 640 x 360 / 320 x 180 • 1.3 mega pixel [16 : 9](30 fps)
	JPEG (MJPEG)		1,280 x 720 / 640 x 360 / 320 x 180 • 1.3 mega pixel [4 : 3](30 fps)
			1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240)
	H.264 *3	Transmission Mode	Constant bit rate / Variable bit rate / Frame rate priority / Best effort / Advanced VBF
		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/
		Image Quality	4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps Low / Normal / Fine
		Smart Coding mode Refresh Interval	On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected. 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s
	JPEG	Transmission Type Image Quality	Unicast / Multicast 0 SUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9
			O.1 fps to 30 fps Pull / Push
	Audio Compression		G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps AAC *4
	Audio Mode		Off / Mic (Line) input / Audio output / Interactive (Half duplex) / 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, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6 ; ICMP, ARP
			IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARF
	FTP Client		Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional
			SDXC/SDHC/SD memory card is available.)

Network	SDXC/SDHC/SD	H.264 recording (Audio recording is enable):
	Memory Card (Option)	Manual REC / Alarm REC (Pre/Post) / Schedule REC/ Backup upon network failure
		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**, 128 GB** model
		*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Cellular Phone Compatibility	JPEG image, panning / tilting / zoom / focus control, 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 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
	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	<safety></safety>
		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 (IEEE802.3af compliant): 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	10 % to 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}
	Finish	Camera : ABS resin (Coating color: Black)
		Decorative cover: ABS resin (Resin color: Sail white)

*1 Converted value

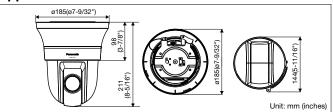
- "2 For further information about PC system requirements and precautions for when using Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, or Windows® Internet Explorer®, click "Manual" "Open" from the supplied CD-ROM and refer to "Notes on Windows® / Internet Explorer® versions".
- "3 Transmission for 2 streams can be individually set.
 "4 When recording audio on an SD memory card, only AAC-LC (Advanced Audio Coding Low Complexity) is used.

Part Names and Functions



- 1 Dome section
- ② SDXC/SD Memory Card Slot Cover
- 3 Live Indicator
- SDXC/SD Memory Card Slot
- ⑤ INITIAL SET Button 6 Link Indicator(lit when linking)
- Network Connector
- (8) Access Indicator (blinks when accessing) 9 12 V DC Power Supply Terminal
- 1 External I/O Terminals
- ① Microphone/line Input Connector
- 1 Audio Output Connector
- 13 Monitor Out Connector for Adjustment
- (4) Safety Wire Holder (15) Camera Mount Bracket (accessory)
- (f) Safety Wire (fixed with the mount bracket)
- ① Decorative Cover Upper (accessory) ® Decorative Cover Lower (accessory)
- (19) Camera

Appearance



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- Safety Precaution: Carefully read the 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.

SDXC/SDHC/SD memory card is available.)

No. of Simultaneous Users Up to 14 users (Depends on network conditions)

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