Panasonic

Super Dynamic Full HD PTZ Dome Network Camera WV-SC588

Preliminary



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

Key Features

- 1080p HD images up to 30 fps
- 2.4 Megapixel high sensitivity MOS Sensor
- Super high resolution at Full HD / 1,920 x 1,080 created by 2.4 Megapixel high sensitivity MOS 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 Range technology ensures clear face image.
- High sensitivity with Day & Night (IR) function:
 0.5 lx (Color), 0.06 lx (B/W) at F1.6
- 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

Standard Accessories

• CD-ROM*1	Decorative Cover1 pc. Power Cord Plug
The followings are for installation. • Camera Mount Bracket	Code Label*2
Camera Fixing Screw (M3) 2 pcs. (incl. 1 spare)	

Optional Accessory

Embedded Ceiling Mount Bracket
WV-Q126A

Wall Mount Bracket

WV-Q118B

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

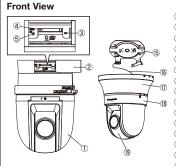
Camera	Image Ser		1/2.8 type MOS Sensor
	Effective P		Approx. 2.4 megapixel
	Scanning I		Progressive scan
	Scanning / Minimum I	Area Illumination	5.44 mm (H) x 3.43 mm (V) {3/16 inches (H) × 1/8 inches (V)} Color: 0.5 k, BW: 0.06 k (F1.6, Auto slow shutter: Off (1/30s), Gain:On(High))
	White Bala	ance	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 I)
	Light Cont	rol Mode	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 Sp	eed	Fix shutter Fix shutter: 1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 (only at Super Dynamic Off
	Super Dyn		ON / OFF
	Face Supe Adaptive E	Black Stretch	ON / OFF (Only at Super Dynamic: ON) ON / OFF (Only at Super Dynamic: OFF)
	Fog comp	ensation	ON / OFF ON (LOW, MID, HIGH) / OFF
	Electronic	Sensitivity UP	OFF / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s
		se Reduction	Mode: AUTO1 / AUTO2 / AUTO3 / ON / OFF, Level: High / Low, with external contribution / Low
	Video Mot Privacy Zo	ion Detection one	4 areas, Sensitivity: 15 steps, Detection size: 10 steps Up to 8 zones / Up to 32 zones, Gray / Mosaic
	VIQS		Up to 2 zones at preset position 1-8 and except preset
	Camera Ti	e Stabilizer tle (OSD)	ON / OFF Up to 20 characters (alphanumeric characters, marks)
Lens	Focus dist		Limited / Unlimited 4.3 mm ~129.0 mm, 30x
	Zoom Rati		30x / 90x with extra optical zoom (at 640x360)
	Digital (Electrical) Zoom Angular Field of View		12x (Max. 1080x combined with extra optical zoom at 640x360) H: 2.6° (TELE) ~ 64.6° (WIDE) V: 1.6° (TELE) ~ 38.2° (WIDE)
	Maximum Aperture Ratio Focusing Range		1 : 1.6 (WIDE) ~ 4.7 (TELE) 2.0 m ~ ∞
	Aperture F	Range	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 controlle
	Tilting Range		Preset: up to approx. 300°/s -25° ~ 205° (upward-level-downward)
	Tilting Speed		Selectable tilting angle: 0° / -5° / -10° / -15° / -20° / -25° Manual: approx. 0.065°/s ~ 120°/s, Up to 256 steps (depending on the controlle Preset: up to approx. 300°/s
	Proportional Pan/Tilt Control		Yes
	Number of Preset Positions Auto Mode		256 preset sequence / auto pan / auto track / patrol
	Image Hold		ON / OFF
	PTZ Position Display Self Return		ON / OFF 10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 m
	Map Shot		360° map shot / preset map shot
Browser GUI	Camera C		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 availab
	Camera Title Clock Display		Up to 20 alphanumeric characters Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manua
	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,
	CD Momor	v Data Daumlaad	Audio Output: ON / OFF Volume adjustment: Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloade
	SD Memory Data Download GUI/Setup Menu Language		Sain or industry in ages recorded in the SDXX/SDANG/SD freintity cald can be downloaded English / Hussian / French / German / Spanish / Russian / Chinese / Japanes Up to 100 (Internal)
System Log Supported OS *2 *3			Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8, Microsoft® Windows® 7,
	Supported Browser		Microsoft® Windows Vista®, Microsoft® Windows® XP SP3 Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit)
		Diowsci	Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit)
Network	Network IF Image	Image Capture Mode:	10Base-T / 100Base-TX, RJ-45 connector H.264 : 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps
	Resolution	2 mega pixel [16:9]	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:	H.264 : 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fg JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fg
	H.264 *4	1.3 mega pixel [4:3] 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/
		Image Quality	4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE
		Refresh Interval	0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s
	JPEG	Iransmission Type Image Quality	UNICAST / MULTICAST 10 steps
		Refresh Interval Transmission Type	0.1 fps ~ 30 fps PULL / PUSH
	Audio Compression		G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting,
	Audio Mode		AAC for audio recording and sound 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 Ra Supported		64 / 128 / 256 / 384 / 512 / 758 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6: TCPPIP, UDPIP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMP, AR IPv4: TCPIP, UDPIP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPPA J, ISMP, ICMP, ARP

- Masses and dimensions are approximate. Specifications are subject to change without notice.
- These products may be subject to export control regulations. All product pictures are NTSC models

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, Sound 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 / Sound 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 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>
		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	12 V DC : 1.0 A
	Power Consumption	PoE: 12 W (IEEE802.3af compliant, Class 0 device)
	Ambient Operating Temperature	PoE: -10°C ~ +55°C (14 °F ~ 131 °F)
	Ambient Operating Humidity	Less than 90 % (no condensation)
	Dimensions	ø144 mm x 208 mm(H) {ø5-11/16 inches x 8-3/16 inches(H)}
	Mass (approx.)	Approx. 1.3 kg (2.87 lbs)
	Finish	Main body : ABS resin, sail white

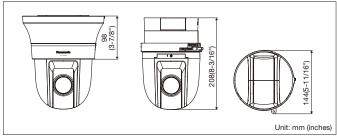
- *1 Converted value
- *1 Converted value *2 Refer to "Notes on Windows Vista® / Windows® 7 / Windows® 8" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®. *3 When using IPv6 for communication, use Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.
- *4 Transmission for 2 streams can be individually set in the same compression method.

Part Names and Functions



- ① Cover Top
- 2 SDXC/SD Memory Card Slot Cover 3 Live Indicator
- (4) 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
- 10 External I/O Terminals
- 1 Microphone/line Input Connector 12 Audio Output Connector
- Monitor Out Connector for Adjustment
- (4) Safety Wire Holder
- (5) Camera Mount Bracket (accessory)
- (f) Safety Wire (fixed with the mount bracket) ① Decorative Cover Lower (accessory)
- ® Decorative Cover Upper (accessory)
- 19 Camera

Appearance



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Important

- Safety Precaution: Carefully read the operating instructions and installation manual 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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