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 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
- Dust-resistant design: Minimize degradation of pan/tilt mechanism

Standard Accessories

• CD-ROM*1	Decorative Cover		
The followings are for installation. • Camera Mount Bracket	• Code Label*21 pc.		
Camera Fixing Screw (M3)	*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 Accessory

Embedded Ceiling Mount Bracket

WV-Q126A

WV-Q119

WV-Q105

Smoke dome cover

WV-CS5S

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

Specifications

Camera	Image Ser		Approx. 1/3 type MOS Sensor
	Effective F		Approx. 2.4 megapixel
	Scanning Scanning A		Progressive scan 5.38 mm(H) x 3.02 mm(V) [7/32 inches(H) x 1/8 inches(V)]
		Illumination	Color: 0.5 lx, BW: 0.06 lx (F1.6, Auto slow shutter: Off (1/30s), Gain:On(High))
			Color: 0.03 lx, BW 0.004 lx (F1.6, Auto slow shutter: Max. 16/30s, Gain:On(High)
	White Bala		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000
	Light Cont	trol Mode	Outdoor scene: Automatic integration of ALC and ELC
			Indoor scene [50 Hz]: Automatic integration of ALC and ELC (up to 1/100 Indoor scene [60 Hz]: Automatic integration of ALC and ELC (up to 1/120
			Fix shutter
	Shutter Sp	peed	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 Of
	Super Dyn		ON / OFF
	Face Super Dynamic		ON / OFF (Only at Super Dynamic: ON)
	Adaptive Black Stretch		ON / OFF (Only at Super Dynamic: OFF) ON / OFF
	Fog compensation AGC		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
	Day & Night (IR)		Mode: AUTO1 / AUTO2 / AUTO3 / ON / OFF, Level: High / Low, with external cont
	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 32 zones, Gray / Mosaic
	Auto Image Stabilizer		Up to 2 zones at preset position 1-8 and except preset ON / OFF
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks)
	Focus distance		Limited / Unlimited
Lens	Focal Length		4.3 mm ~129.0 mm, 30x
	Zoom Rati		30x / 90x with extra optical zoom (at 640x360)
	Digital (Electrical) Zoom		12x (Max. 1080x combined with extra optical zoom at 640x360) H: 2.6° (TELE) ~ 64.6° (WIDE)
	Angular Field of View		V: 1.6° (TELE) ~ 38.2° (WIDE)
	Maximum Aperture Ratio		1 : 1.6 (WIDE) ~ 4.7 (TELE)
	Focusing I		2.0 m ~ ∞
	Aperture F	Range	F1.6 ~ Close
Pan and Tilt	Panning R		360° endless
	Panning S	peed	Manual: approx. 0.065°/s ~ 120°/s, Up to 256 steps (depending on the control
	Tilting Ran	200	Preset: up to approx. 300°/s -25° ~ 205° (upward-level-downward)
	I litting mai	ige	Selectable tilting angle : 0° / -5° / -10° / -15° / -20° / -25°
	Tilting Spe	eed	Manual: approx. 0.065°/s ~ 120°/s, Up to 256 steps (depending on the control
	Titting opecu		Preset: up to approx. 300°/s
	Proportional Pan/Tilt Control		Yes
	Number of Preset Positions		256
	Auto Mode		preset sequence / auto pan / auto track / patrol
	PTZ Position Display		ON / OFF 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 n
	Map Shot		360° map shot / preset map shot
Browser	Camera Control		Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris,
GUI			Preset position call and program, Auto mode
	Display Mode		Spot, Quad: Image from 16 cameras can be displayed in 4 different Qua
			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 (Manual Reset
	Alarm Control 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 download
	GUI/Setup Menu Language		English / Italian / French / German / Spanish / Russian / Chinese / Japanes
	System Lo	og	Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error lo
	Supported OS *2 *3		Microsoft® Windows® 8, Microsoft® Windows® 7,
			Microsoft® Windows Vista®, Microsoft® Windows® XP SP3
	Supported	Browser	Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 b
			Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit)
Network	Network IF	1	10Base-T / 100Base-TX, RJ-45 connector
	Image	Image Capture Mode:	H.264 : 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps
	Resolution	L	JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps
		Image Capture Mode:	H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps
		1.3 mega pixel [16:9]	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 f
	11.004 **	1.3 mega pixel [4:3]	JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 f
	H.264 *4	Frame Rate	Constant bitrate / Frame rate priority / Best effort /Advanced VBR 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 /
		J. C. LALO, OHEIR	4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps
		Image Quality	LOW / NORMAL / FINE
		Refresh Interval	0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s
			UNICAST / MULTICAST
	JPEG	Image Quality	10 steps
		Refresh Interval	0.1 fps ~ 30 fps
	Transmission Type		PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting,
	Audio Compression		AAC for audio recording and Audio detection
	Audio Mode		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duple
	Authentication for Audio		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 / Unlimit
	Supported Protocol		IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMP, A
			IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DDNS,
	ETD Olive-1	÷	NTP, SNMP, UPnP, IGMP, ICMP, ARP
	FTP Client	i	NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission (When the FTP transmissio is failed, backup on an optional SDXC/SDHC/SD memory card is available.)

- 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, 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	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

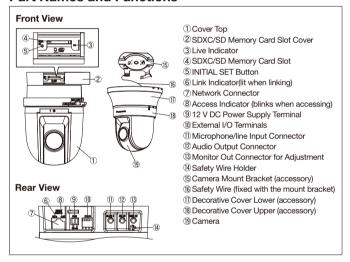
- 11 Converted value

 *2 Refer to "Notes on Windows Vista® / Windows® 7 / Windows® 8" on the provided CD-ROM for further 2 Heter to Notes on Windows Visita® / Windows® / Twindows® of on the provided CU-HOW for further information about system requirements for a PC and precautions when using Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Visita®.

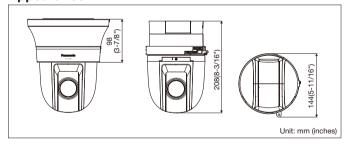
 3 When using IPv6 for communication, use Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Visita®.

 4 Transmission for 2 streams can be individually set in the same compression method.

Part Names and Functions



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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