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

	Power Cord Plug1 pc. Code Label*21 pc.
Camera Mount Bracket Camera Fixing Screw (M3)	The CD-ROM contains the operating instructions (PDFs) and different kinds of tool software programs. This label may be required for network management. The network administrator shall retain the code label.

Optional Accessory

Embedded Ceiling Mount Bracket WV-Q126A	Wall Mount Bracket WV-Q119	Ceiling Mount Bracket WV-Q105
Smoke dome cover WV-CS5S	Clear dome cover	
* This catalog is provided for all over the wor	ld. Some accessories may not	be available in some countries.

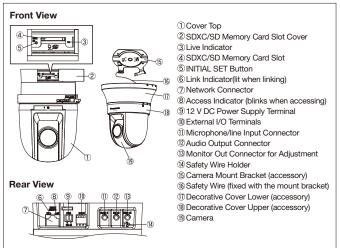
Specifications

Camera	Image Ser Effective P		Approx. 1/3 type MOS Sensor Approx. 2.4 megapixel	
	Scanning Mode		Progressive scan	
	Scanning /		5.38 mm(H) x 3.02 mm(V) [7/32 inches(H) x 1/8 inches(V)]	
		llumination	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))	
	White Balance Light Control Mode Shutter Speed		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 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 Fix shutter: 1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250,	
	Super Dyn	amic	1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 (only at Super Dynamic Off) ON / OFF	
		r Dynamic	ON / OFF (Only at Super Dynamic: ON)	
	Adaptive E	Black Stretch	ON / OFF (Only at Super Dynamic: OFF)	
	Fog comp	ensation	ON / OFF	
	AGC Electronic Sensitivity UP		ON (LOW, MID, 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 AUTO (AUTO) (AUTO) (ON / OFF	
	Day & Night (IR) Digital Noise Reduction		Mode: AUTO1 / AUTO2 / AUTO3 / ON / OFF, Level:High / Low, with external control High / Low	
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps	
	Privacy Zone		Up to 8 zones / Up to 32 zones, Gray / Mosaic	
	VIQS	01.1.11	Up to 2 zones at preset position 1-8 and except preset	
	Auto Image Stabilizer Camera Title (OSD)		ON / OFF Up to 20 characters (alphanumeric characters, marks)	
	Focus dist		Limited / Unlimited	
ens	Focal Leng		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)	
	Angular Fi	eld of View	H: 2.6° (TELE) ~ 64.6° (WIDE) V: 1.6° (TELE) ~ 38.2° (WIDE)	
	Maximum	Aperture Ratio	1 : 1.6 (WIDE) ~ 4.7 (TELE)	
	Focusing F	Range	2.0 m ~ ∞	
	Aperture F		F1.6 ~ Close	
Pan and Tilt	Panning R		360° endless	
	Panning Speed		Manual: approx. 0.065°/s ~ 120°/s, Up to 256 steps (depending on the controlle Preset: up to approx. 300°/s	
	Tilting Ran	-	-25° ~ 205° (upward-level-downward) Selectable tilting angle : 0° / -5° / -10° / -15° / -20° / -25°	
	Tilting Spe		Manual: approx. $0.065^\circ/s\sim120^\circ/s,$ Up to 256 steps (depending on the controlle Preset: up to approx. $300^\circ/s$	
		al Pan/Tilt Control	Yes 256	
	Number of Preset Positions Auto Mode		preset sequence / auto pan / auto track / patrol	
	Image Hold		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 mi	
	Map Shot		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	
GUI	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	tle	Up to 20 alphanumeric characters	
	Clock Disp		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual	
	Alarm Con		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, Audio Output: ON / OFF Volume adjustment: Low / Middle / High	
	SD Memor	y 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 Lo	g	Up to 100 (Internal)	
		0.0 10 10	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs	
	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 bit)	
	Supported Browser		Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit)	
Network	Network IF		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	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:	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 fp:	
	11.00.1.11	1.3 mega pixel [4:3]	JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps	
	H.264 *4	Transmission Mode 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 /	
		Imaga Our-lit	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	
		Transmission Type	UNICAST / MULTICAST	
	JPEG	Image Quality	10 steps	
		Refresh Interval	0.1 fps ~ 30 fps	
	Transmission Type Audio Compression		PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting,	
			AAC for audio recording and Audio detection	
	Audio Mode		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex Level 1 only / Level 2 higher / All users	
	Authentication for Audio Total Bit Rate		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimiter	
	Supported Protocol		IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP, RTP, SMTP, SMTP, SMTP, DHCP6, DHCP, AB, IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DDNS, DNS, DNS, DNS, DNS, DNS, DN	
			NTP, SNMP, UPnP, IGMP, ICMP, ARP	
	FTP Client		Alarm image transmission, FTP periodic transmission (When the FTP transmission	

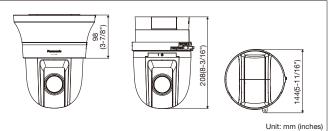
 Masses and dimensions are approximate.
 Specifications are subject to change without notice. • These products may be subject to export control regulations. • All product pictures are NTSC models

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

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.



http://security.panasonic.com

http://www.facebook.com/PanasonicNetworkCamera Printed in Japan (2A-107AA)