Panasonic BUSINESS

Super Dynamic HD PTZ Dome Network Camera WV-SC387



HD / 1,280 x 720 H.264 Camera featuring 45x extra optical zoom and Super Dynamic

Key Features

- 720p HD images up to 30 fps
- Super high resolution at HD / 1,280 x 720
- 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 1,280 x 960 image size
- 45x extra optical zoom at 1,280 x 720 (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:
 0.3 lx (Color),
 0.04 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 "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 (H.264 / 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
- 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

Optional Accessories



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 image sensor
	Scanning Mode		Progressive scan
	Scanning Area		5.38 mm(H) x 3.02 mm(V) [7/32 inches(H) x 1/8 inches(V)] Color: 0.3 lx, BW: 0.04 lx (F1.6, Auto slow shutter: Off (1/30s), Gain: On(High))
	Minimum Illumination		Color: 0.019 lx, BW: 0.003 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 K) Outdoor scene: Automatic integration of ALC and ELC
	Light Control Mode		Indoor scene [50 Hz]: Automatic integration of ALC and ELC (up to 1/100 lindoor scene [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 lindoor scene [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 lindoor scene [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 lindoor scene [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 lindoor scene [60 Hz]).
	Shutter Speed		Fix shutter Off (1/30), 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500,
	Super Dynamic		1/1000, 1/2000, 1/4000, 1/10000 On / Off
	Face Super Dynamic		On / Off (Only when Super Dynamic: On)
	Dynamic Range Adaptive Black Stretch		105 dB typical (Super Dynamic: On, Light Control mode: Indoor) On / Off (Only when Super Dynamic: Off)
	Fog compensation		On / Off
	Gain (AGC)		On (Low) / On (Mid) / On (High) / Off
	Electronic Sensitivity UP Day/Night (ICR)		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 contr
	Digital Noise Reduction		High / Low
	Video Motion Detection Privacy Zone		4 areas, Sensitivity: 15 steps, Detection size: 10 steps Gray / Mosaic / Off (up to 32 zones available)
	VIQS		Up to 2 zones at preset position 1-8 and except preset
	Auto Image Stabilizer		On / Off
	Camera Title (OSD) Focus distance		Up to 20 characters (alphanumeric characters, marks) Limited / Unlimited
Lens	Focal Length		4.3 mm to 129.0 mm {3/16 inches - 5-3/32 inches}
	Zoom Ratio Digital (Electrical) Zoom		30x / 45x with extra optical zoom (at 1280 x 720) 12x (Max. 1080x combined with extra optical zoom at 640 x 360)
	Angular Field of View		H: 2.34° (TELE) - 65.1° (WIDE), V: 1.36° (TELE) - 38.4° (WIDE) ([16:9] mode) H: 1.7° (TELE) - 47° (WIDE), V: 1.4° (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°/s - 120°/s, Up to 256 steps (depending on the controlle Preset: up to approx. 300°/s
	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°/s to 120°/s, Preset: up to approx. 300°/s
	Proportional Pan/Tilt Control		Yes 256
	Number of Preset Positions Auto Mode		Auto track/ Auto pan/ Preset sequence/ 360 map-shot/ 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 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 availab Up to 20 alphanumeric characters
	Camera Title Clock Display		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 Audio Output: On / Off Volume adjustment: Low / Middle / High Volume adjustment: Low / Middle / High
	SD Memory Data Download		Still or motion Images recorded in the SDXC/SDHC/SD memory car can be downloaded.
	GUI/Setup Menu Language		English / Italian / French / German / Spanish / Portuguese / Russian / Chinese / Japane
	System Log		Up to 100 (Internal) Up to 4,000 (SDX/SSDHC/SD memory when the recording format is set to JPEG.) error log
	Supported OS *2		Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP Sf
	Supported Browser		Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 8 (32 bit),
			Windows® Internet Explorer® 7 (32 bit)
Network	Network IF		10Base-T / 100Base-TX, RJ45 connector • Image Capture Mode[16 : 9](30 fps)
	Image Resolution H.264		1,280 x 720 / 640 x 360 / 320 x 180
	JPEG (MJPEG)		• Image Capture Mode[4 : 3](30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240
	H.264 *3	Transmission Mode	Constant bit rate / 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 kbps Low / Normal / Fine
		Refresh Interval	0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s
	IDEC	Transmission Type Image Quality	
	JPEG	Refresh Interval	10 steps 0.1 fps to 30 fps
		Transmission Type	Pull / Push
	Audio Compression Audio Mode		G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC*4 Off / Mic (Line) input / Audio output / Interactive (Half duplex) /
	Authentication for Audio		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 / Unlimite
	Supported Protocol		IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMP, ARP IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP,
	FTP Client		SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, Af Alarm image transmission, FTP periodic transmission
			(When the FTP transmission is failed, backup on an optional

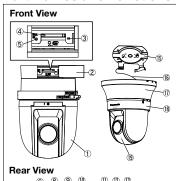
- Masses and dimensions are approximate.
 Specifications are subject to change without notice.

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** 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: DC12 V / 1.0 A / 12 W
	Power Consumption	PoE (IEEE802.3af compliant): DC48 V / 250 mA / Approx. 12 W (Class 0 device)
		* FOR UL LISTED MODEL(S), ONLY CONNECT DC12 V 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}
	Finish	Camera : ABS resin (Coating color: Black)
		Decorative cover: ABS resin (Resin color: Sail white)

- *1 Converted value
- "Ze For further information about PC system requirements and precautions for when using Microsoft® Windows® 10, Microsoft® Windows® 8.1, 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.

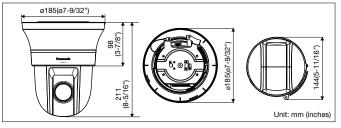
 "4 AAC (Advanced Audio Coding) is only used when recording audio on an SD memory card.

Part Names and Functions



- ①Cover 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)
- 7 Network Connector
- ® Access Indicator (blinks when accessing)
- 9 12 V DC Power Supply Terminal
- ① External I/O Terminals 1 Microphone/line Input Connector
- 12 Audio Output Connector
- 13 Monitor Out Connector for Adjustment
- (4) Safety Wire Holder (5) Camera Mount Bracket (accessory)
- (§) Safety Wire (fixed with the mount bracket)
- ① Decorative Cover Upper (accessory)
- ® Decorative Cover Lower (accessory)
- (19) Camera

Appearance



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- Important
 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.

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