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.
- 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 degrees endless Panning

- 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

- Installation Guide........... • CD-ROM*1.....1 pc.
- *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.
- The followings are for installation.
- Camera Mount Bracket Camera Fixing Screw (M3)
- . 2 pcs. (incl. 1 spare)
- Decorative Cover......1 pc.

Optional Accessories

Mount Bracket WV-Q105A













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

Specifications

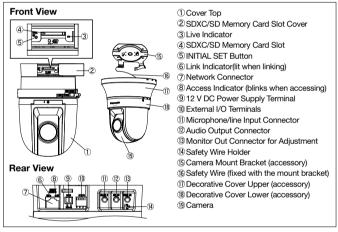
Image Ser	nsor	Approx. 1/3 type MOS image sensor
		Progressive scan
		5.38 mm(H) x 3.02 mm(V) [7/32 inches(H) x 1/8 inches(V)]
Minimum	Illumination	Color: 0.3 lx, BW: 0.04 lx (F1.6, Auto slow shutter: Off (1/30s), Gain: On(High))
White Bala	ance	Color: 0.019 lx, BW: 0.003 lx (F1.6, Auto slow shutter: Max. 16/30s, Gain: On(High)) AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K
		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	eed	Off (1/30), 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500,
C D		1/1000, 1/2000, 1/4000, 1/10000
		On / Off
		On / Off (Only when Super Dynamic: On) 105 dB typical (Super Dynamic: On, Light Control mode: Indoor)
		On / Off (Only when Super Dynamic: Off)
		On / Off
		On (Low) / On (Mid) / On (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)
Day/Night (ICR)		Mode: AUTO1 / AUTO2 / AUTO3 / On / Off, Level: High / Low, with external contr
Digital Noise Reduction		High / Low
		4 areas, Sensitivity: 15 steps, Detection size: 10 steps
	ne	Gray / Mosaic / Off (up to 32 zones available)
	01 1 31	Up to 2 zones at preset position 1-8 and except preset
		On / Off
		Up to 20 characters (alphanumeric characters, marks) Limited / Unlimited
		4.3 mm to 129.0 mm {3/16 inches - 5-3/32 inches}
		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 - ∞
Aperture Range		F1.6 - Close
		360° endless
		Manual: approx. 0.065°/s - 120°/s, Up to 256 steps (depending on the controlled
		Preset: up to approx. 300°/s
Tilting Ran	ige	-25° to 205° (upward-level-downward)
T''' 0		Selectable tilting angle: 10 °/ 5 °/ 3 °/ 0 °/ -3 °/ -5 °/ -10 °/ -15 °/ -20 °/ -25
		Manual: approx. 0.065°/s to 120°/s, Preset: up to approx. 300°/s
		Yes 256
		Auto track/ Auto pan/ Preset sequence/ 360 map-shot/ Patrol
		On / Off
		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
Camera C	ontrol	Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris,
Display Mode		Preset position call and program, Auto mode Spot, Quad: Image from 16 cameras can be displayed in 4 different Quascreens or 16 split screen (JPEG only). 20 characters camera title available.
Camera Title		Up to 20 alphanumeric characters
Clock Display		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manua
Alarm Control		Reset
	Capture	A still picture will be displayed on a newly opened window.
		Mic (Line) Input: On / Off Volume adjustment: Low / Middle / Hig Audio Output : On / Off Volume adjustment: Low / Middle / Hig
SD Memory Data Download		Still or motion Images recorded in the SDXC/SDHC/SD memory can can be downloaded.
GUI/Setup Menu Language System Log Supported OS *2		English / Italian / French / German / Spanish / Portuguese / Russian / Chinese / Japane
		Up to 100 (Internal)
		Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error lo
		Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8,
		Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP Si
Supported Browser		Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® 10
		Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit),
		Windows® Internet Explorer® 7 (32 bit)
		10Base-T / 100Base-TX, RJ45 connector
-	solution	Image Capture Mode[16 : 9](30 fps) 1,280 x 720 / 640 x 360 / 320 x 180
JPEG (MJPEG)		1,280 x 720 / 640 x 360 / 320 x 180 • 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
1		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/
1		4,096 / 6,144 / 8,192 kbps
	Image Quality	Low / Normal / Fine
	Refresh Interval	0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s
	Transmission Type	
JPEG	Image Quality	10 steps
	Refresh Interval Transmission Type	0.1 fps to 30 fps
		Pull / Push
Audio Com		G 726 (ADPCM) 32 kbps / 16 kbps G 711 64 kbps AAC*4
Audio Com	pression	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC*4 Off / Mic (Line) input / Audio output / Interactive (Half dupley) /
Audio Com Audio Mod	pression	Off / Mic (Line) input / Audio output / Interactive (Half duplex) /
Audio Mod	pression e	Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
Audio Mod	e tion for Audio	Off / Mic (Line) input / Audio output / Interactive (Half duplex) /
Audio Mod Authenticat	pression e tion for Audio ate	Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimit IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMP, ARP
Audio Mod Authenticat Total Bit Ra	pression e tion for Audio ate Protocol	Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) / Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimit IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP,
	Scanning Scanning Scanning Minimum Minimum Minimum Super Sup	Scanning Mode Scanning Area Minimum Illumination Minite Balance Light Control Mode Shutter Speed Super Dynamic Face Super Dynamic Gain (AGC) Electronic Sensitivity UP Daylinght (ICR) Digital Noise Reduction Video Motion Detection Privacy Zone VIGS Auto Image Stabilizer Camera Title (OSD) Focus distance Focal Length Zoom Ratio Digital (Electrical) Zoom Angular Field of View Maximum Aperture Ratio Focusing Range Aperture Range Panning Range Panning Range Panning Speed Titting Range Titting Speed Proportional PanTilt Control Number of Preset Positions Auto Mode Image Hold PTZ Position Display Self Return Map Shot Camera Title Clock Display Alarm Control Display Mode Camera Title Clock Display Alarm Control One Shot Capture Audio SD Memory Data Download GUI/Setup Menu Language System Log Supported OS '2 Supported Browser Network IF Image Resolution H.264 JPEG (MJPEG) H.264 '3 Transmission Mode Fraite Rate Elita Rate/Client Image Culativa Refresh Interval Refresh Inter

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

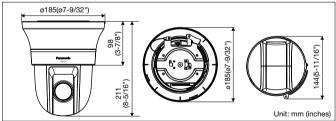
Network	SDXC/SDHC/SD	H.264 recording (Audio recording is enable):
	Memory Card (Option)	Manual REC / Alarm REC(Pre/Post) / Schedule REC / Backup upon network failure
		JPEG recording:
		Manual REC / Alarm REC (Pre/Post) / Backup upon network failure
		Compatible SD (SDHC/SDXC) card:
		Panasonic 2 GB, 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
Output	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>
G 0.101 G1		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)}
	Billionolono	(including the decorative covers)
	Mass (approx.)	Approx. 1.5 kg {3.31 lbs}
	Finish	Camera : ABS resin (Coating color: Black)

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

Part Names and Functions



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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