Panasonic

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 created by 2.4 Megapixel high sensitivity MOS image sensor
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by "UniPhier®", Panasonic's proprietary System LSI platform.
- 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.

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

Standard Accessories

• CD-ROM*1.

Decorative Cover

Power cable Plug.

..... 2 pcs. (incl. 1 spare)

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Installation Guide.....1 pc

*2 This label may be required for network management. The network administrator shall retain the code label.



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

Specifications

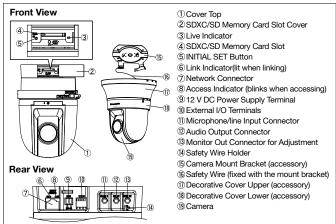
Camera	Image Ser Effective F		Approx. 1/3 type MOS image sensor Approx. 2.4 mega pixels
	Scanning		Progressive scan
	Scanning		5.38 mm(H) x 3.02 mm(V) [7/32 inches(H) x 1/8 inches(V)]
	Scanning Area Minimum Illumination		Color: 0.3 k, BW: 0.04 k (F1.6, Auto slow shutter: Off (1/30s), Gain: On(High)) Color: 0.019 k, BW: 0.003 k (F1.6, Auto slow shutter: Max. 16/30s, Gain: On(High)) **
	White Balance Light Control Mode		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 s
	Shutter Speed		Indoor scene [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 s 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)
	Adaptive Black Stretch Fog compensation		On / Off (Only when Super Dynamic: Off) 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 contro
	Digital Noise Reduction		High / Low
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps
	Privacy Zone VIQS		Gray / Mosaic / Off (up to 32 zones available) Up to 2 zones at preset position 1-8 and except preset
	Auto Image Stabilizer		On / Off
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks) Limited / Unlimited
Lens	Focus distance Focal Length		4.3 mm to 129.0 mm {3/16 inches - 5-3/32 inches}
Lens	Zoom Ratio		30x / 45x with extra optical zoom (at 1280 x 720)
	Digital (Electrical) Zoom		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: 1.6° (TELE) - 45.2° (WIDE), V: 1.2° (TELE) - 34.3° (WIDE) ([4:3]mode)
	Maximum Aperture Ratio		1 : 1.6 (WIDE) - 4.7 (TELE)
	Focusing Range		2.0 m - ∞ F1.6 - Close
Pan and Tilt	Aperture Range Panning Range		360° endless
	Panning Speed		Manual: approx. 0.065°/s - 120°/s, Up to 256 steps (depending on the controller 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
		al Pan/Tilt Control	Yes
	Number of Preset Positions		256
	Auto Mode		Auto track/ Auto pan/ Preset sequence/ 360 map-shot/ 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
Prowoor	Map Shot	ontrol	360° map shot / Preset map shot Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris,
Browser GUI	Camera Control Display Mode		Preset position call and program, Auto mode Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad
	Camera Ti		screens or 16 split screen (JPEG only). 20 characters camera title available Up to 20 alphanumeric characters
	Clock Disp		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual
	Alarm Con		Reset
	One Shot		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 GUI/Setup Menu Language		Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded English / Italian / French / German / Spanish / Portuguese / Russian /
	System Log		Chinese / Japanese Up to 100 (Internal)
	Supported OS *2		Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7,
	Supported Browser		Microsoft® Windows Vista®, Microsoft® Windows® XP SP3 Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit)
			Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit)
Network	Network IF		10Base-T / 100Base-TX, RJ45 connector
	Image Resolution	Image Capture Mode: 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: 4:3	H.264 : 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 fp: JPEG (MJPEG): 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 fp:
	H.264 *4	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 /
		Dit hate/Olient	
			4,096 / 6,144 / 8,192 kbps
		Image Quality	4,096 / 6,144 / 8,192 kbps Low / Normal / Fine
		Image Quality Refresh Interval	4,096 / 6,144 / 8,192 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s
	JPEG	Image Quality Refresh Interval Transmission Type	4,096 / 6,144 / 8,192 kbps Low / Normal / Fine
	JPEG	Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval	4,096 / 6,144 / 8,192 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps
		Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	4,096 / 6,144 / 8,192 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps Pull / Push
	Audio Com	Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type pression	4,096 / 6,144 / 8,192 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC ^{*3}
		Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type pression	4,096 / 6,144 / 8,192 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC'3 Off / Mic (Line) input / Audio output / Interactive (Half duplex) /
	Audio Com Audio Mode	Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type pression	4,096 / 6,144 / 8,192 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC ^{*3} Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
	Audio Com Audio Mode Authenticat	Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type pression e	4,096 / 6,144 / 8,192 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC'3 Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users
	Audio Com Audio Mode	Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type pression e ion for Audio te	4,096 / 6,144 / 8,192 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC'3 Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users
	Audio Com Audio Mode Authenticat Total Bit Ra	Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type pression e ion for Audio te	4,096 / 6,144 / 8,192 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC ^{*3} 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 / Unlimited IPv6: TOP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTOP, FTP,
	Audio Com Audio Mode Authenticat Total Bit Ra	Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type pression e ion for Audio tte Protocol	4,086 / 6,144 / 8,192 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC'3 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 / 2,044 / 4,096 / 8,192 kbps / Unlimited 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, SMTP, DHCP, DNS, DDS, NTP, SNMP, UPAP, IGMP , ICMP, ARI Alarm image transmission, FTP periodic transmission
	Audio Com Audio Mode Authenticat Total Bit Ra Supported	Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type pression e ion for Audio tte Protocol	4,096 / 6,144 / 8,192 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC'3 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 / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DNS, NTP, SNMP, DNCPv6, ICMP, ARP IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, ONS, DDNS, NTP, SNMP, UPAP , IGMP , ICMP , ARI

Network	SDXC/SDHC/SD	H.264 recording (Audio recording is enable): Manual REC / Alarm REC(Pre/Post) /
	Memory Card (Option)	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*, 64GB** 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 device: 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)
	1	Decorative cover: ABS resin (Resin color: Sail white)

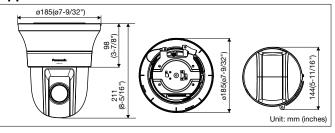
*1 Converted value *2 For further information about PC system requirements and precautions for when using Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® Usita®, or Windows® Internet Explorer®, orlick "Manual" - "Open" from the supplied CD-ROM and refer to "Notes on Windows® / Internet Explorer® versions". *3 AAC (Advanced Audio Coding) is only used when recording audio on an SD memory card.

*4 Transmission for 2 streams can be individually set.

Part Names and Functions



Appearance



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 - iPad, iPhone and iPod touch are registered trademarks of Apple Inc.

- Android is a trademark of Google Inc. - UniPhier is a registered trademark of Panasonic Corporation.

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Important

- Safety Precaution: Carefully read the Important Information, 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.



http://security.panasonic.com

http://www.facebook.com/PanasonicNetworkCamera (2A-144A)

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