Panasonic BUSINESS

Super Dynamic HD PTZ Dome Network Camera WV-SC387A



HD / 1,280 x 720 H.264 Camera featuring 45x HD 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
- 30x optical zoom, 45x HD extra optical zoom at 1,280 x 720
 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:
 0.1 lx (Color), 0.013 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.
- Smart coding Technology: Group of Pictures (GOP) control function removes unnecessary information from the frame for realizing efficient encoding.
- **GOP control** can save the network bandwidth and the disk space of recorder effectively.
- 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.
- 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
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- Fog compensation function equipped as standard.
- Dust-resistant design: Minimize degradation of pan/tilt mechanism

Standard Accessories

| Installation Guide | The followings are for installation. Camera Mount Bracket |
|---|--|
| *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. | 2 pcs. (incl. 1 spare) Decorative Cover |

Optional Accessories



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

| Camera | Image Ser | isor | Approx. 1/3 type MOS image sensor |
|--------------|---|--|--|
| | Scanning | | Progressive scan |
| | Scanning . | | 5.35 mm(H) x 3.34 mm(V) [7/32 inches(H) x 1/8 inches(V)] |
| | | Illumination | Color: 0.1 lx, BW: 0.013 lx (F1.6, Auto slow shutter: Off (1/30s), Gain: On(High)) |
| | | | Color: 0.007 lx, BW: 0.001 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) |
| | Light Conf | rol Mode | Outdoor scene: Automatic integration of ALC and ELC |
| | | | Indoor scene [50 Hz]: Automatic integration of ALC and ELC (up to 1/100 s) |
| | | | Indoor scene [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 s) |
| | | | Fix shutter |
| | Shutter Sp | peed | Off (1/30), 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500, |
| | | | 1/1000, 1/2000, 1/4000, 1/10000 |
| | Super Dyn | ıamic | On / Off |
| | Face Supe | er Dynamic | On / Off |
| | Dynamic F | Range | 105 dB typical (Super Dynamic: On, Light Control mode: Indoor) |
| | | | *Theoretical value. Conventional measuring method: 52dB |
| | Adaptive E | Black Stretch | On / Off |
| | Fog comp | | On / Off (Super Dynamic and Adaptive black stretch: Off) |
| | Gain (AGC | | On (High) / On (Mid) / On (Low) / Off |
| | Auto slow | | Off (1/30 s), max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s |
| | Day/Night | | Mode: AUTO1 / AUTO2 / AUTO3 / On / Off, Level: High / Low, with external control |
| | | se Reduction | High / Low |
| | | ion Detection | 4 areas, Sensitivity: 15 steps, Detection size: 10 steps |
| | Privacy Zo | ne | Gray / Mosaic / Off (up to 32 zones available) |
| | VIQS | 0 | On / Off Up to 2 zones at preset position 1-8 and except preset |
| | | e Stabilizer | On / Off |
| | Camera Ti | | On / Off Up to 20 characters (alphanumeric characters, marks) |
| Lone | Focus dist | | Limited {around 1.5m(4.9 ft)} / Unlimited |
| Lens | Focal Leng Zoom Rati | | 4.3 mm to 129.0 mm {3/16 inches - 5-3/32 inches} 30x / 45x HD extra optical zoom (at 1280 x 720) |
| | | ectrical) Zoom | 12x (Max. 1080x combined with extra optical zoom at 640 x 360) |
| | | eld of View | H: 2.3° (TELE) - 64° (WIDE), V: 1.3° (TELE) - 38° (WIDE) ([16:9] mode)* |
| | , urgulai Fl | 5.5 OI VICVV | H: 1.7° (TELE) - 46° (WIDE), V: 1.3° (TELE) - 38° (WIDE) ([16:9] mode) |
| | Maximum | Aperture Ratio | 1 : 1.6 (WIDE) - 4.7 (TELE) |
| | Focusing I | | 2.0 m - ∞ |
| | Aperture F | | F1.6 - Close |
| Pan and Tilt | Panning R | | 360° endless |
| i an ana inc | Panning S | | Manual: approx. 0.065°/s - 120°/s, Up to 256 steps (depending on the controller) |
| | · ammig o | pood | Preset: up to approx. 300°/s |
| | Tilting Ran | nge | -25° to 205° (upward-level-downward) |
| | · | | Selectable tilting angle: 10 °/ 5 °/ 3 °/ 0 °/ -3 °/ -5 °/ -10 °/ -15 °/ -20 °/ -25 ° |
| | Tilting Spe | eed | Manual: approx. 0.065°/s to 120°/s, Preset: up to approx. 300°/s |
| | Proportiona | al Pan/Tilt Control | Yes |
| | | | 256 |
| | Auto Mode | e | Auto track / Auto pan / Preset sequence / 360 map-shot / Patrol |
| | Image Hol | d | On / Off |
| | Camera po | osition display | Off / Pan-Tilt degree · Zoom ratio display / Direction display |
| | Self Return | n | $10 \; \text{s} \; / \; 20 \; \text{s} \; / \; 30 \; \text{s} \; / \; 1 \; \text{min} \; / \; 2 \; \text{min} \; / \; 3 \; \text{min} \; / \; 5 \; \text{min} \; / \; 10 \; \text{min} \; / \; 20 \; \text{min} \; / \; 30 \; \text{min} \; / \; 60 \; \text{min} \; / \; 20 \; \text{min} \; / \; 20$ |
| | Map Shot | | 360° map shot / Preset map shot |
| Browser | Camera C | ontrol | Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, |
| GUI | | | Preset position call and program, Auto mode |
| | Display M | ode | Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad |
| | O T | | screens or 16 split screen (JPEG only). 20 characters camera title available |
| | Clock Dior | | Up to 20 alphanumeric characters |
| | Clock Disp Alarm Cor | | Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual) |
| | | | Reset A still picture will be displayed on a newly opened window. |
| | One Shot Audio | Capture | Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High |
| | Addio | | 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 |
| | 3D IVICITIO | y Data Download | can be downloaded. |
| | GUI/Setun | Manuelana | English / Italian / French / German / Spanish / Portuguese / Russian / Chinese / Japanese |
| | | Menu Language | |
| | System I c | Menu Language | |
| | System Lo | | Up to 100 (Internal) |
| | - | og | Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs |
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| Network | Supported | og d OS *2 d Browser | Up to 100 (Internal) Up to 4,000 (SDXCSDHC/SD memory when the recording format is set to JPEG) error logs Microsoft® Windows® 10, Microsoft® Windows® 8,1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 2 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit) |
| Network | Supported Supported | og d OS *2 d Browser | Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error logs Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 7 (32 bit) 10Base-T / 100Base-TX, RJ45 connector |
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| Network | Supported Supported Network If Image Rese H.264 JPEG (MJ H.264 '3 JPEG Audio Com Audio Mod Authenticat | og I OS "2 I Browser Family Spart College | Up to 100 (Internal) Up to 100 (Internal) Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/ISD mmony when the recording format is set to JPEG) error logs Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 1, Microsoft® Windows® 1, Microsoft® Windows® 1, Microsoft® Windows® Internet Explore® 1 (32 bit), Windows® Internet Explore® 8 (32 bit), Windows® Internet Explore® 7 (32 bit) Windows® Internet Explore® 7 (32 bit) Windows® Internet Explore® 7 (32 bit) UnBase-T / 100Base-TX, BL/45 connector ■ Image Capture Mode[16 : 9](30 fps) 1,280 x 720 / 640 x 360 / 320 x 180 ■ Image Capture Mode[4 : 3](30 fps) 1,280 x 720 / 640 x 360 / 320 x 180 ■ Unage Capture Mode[4 : 3](30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240 Constant bit rate / Variable bit rate / Frame rate priority / Best effort / Advanced VBF 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 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps Un (2 / / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 0 SUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9) 0.1 fps to 30 fps Pull / Push G. 726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC *4 0ff / Mic (Line) input / Audio output / Interactive (Full 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, HTTPS, RTSP, RTP, RTP/RTCP, FTP, |
| Network | Supported Supported Network If Image Rese H.264 JPEG (MJ H.264 '3 JPEG Audio Com Audio Mod Authenticat | og I OS "2 I Browser Family Spart College | Up to 100 (Internal) Up to 4,000 (BDXCSDHC/SD memory when the recording format is set to JPEG) error logs Microsoft® Windows® 1.0, Microsoft® Windows® 8.1, Microsoft® Windows® 8. Microsoft® Windows® 1.0, Microsoft® Windows® 1.1, Microsoft® Windows® 8. Microsoft® Windows® 1.1, Microsoft® Windows® 8. Microsoft® Windows® 1.1, Microsoft® Windows® 8. Microsoft® Windows® 1.1, Microsoft® 10 (32 bit) Windows® 1.1, Microsoft® 1.2, Microsoft® |
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• Masses and dimensions are approximate. • Specifications are subject to change without notice.

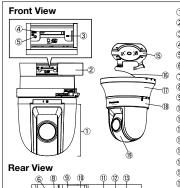
| Network | SDXC/SDHC/SD | H.264 recording (Audio recording is enable): |
|---------|-------------------------------|---|
| | Memory Card (Option) | Manual REC / Alarm REC(Pre/Post) / Schedule REC / Backup upon network failure |
| | | JPEG recording: |
| | | Manual REC / Alarm REC (Pre/Post) / Backup upon network failure |
| | | Compatible SD (SDHC/SDXC) card: |
| | | Panasonic 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB**, 128 GB** mode |
| | | *SDHC card, ** SDXC card (except miniSD card and microSD card |
| | Cellular Phone Compatibility | JPEG image, panning / tilting / zoom / focus control, AUX control (by access leve |
| | 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- |
| | | <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 | 10 % to 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

- "For further information about PC system requirements and precautions for when using Microsoft® Windows® 10, 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".

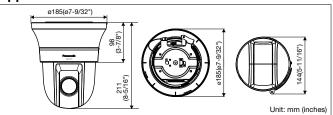
 3 Transmission for 2 streams can be individually set.
- *4 When recording audio on an SD memory card, only AAC-LC (Advanced Audio Coding Low Complexity) is used.

Part Names and Functions



- $\ \, \textcircled{1} \ \, \text{Dome section}$
- 2 SDXC/SD Memory Card Slot Cover
- 3 Live Indicator
- SDXC/SD Memory Card Slot (5) INITIAL SET Button
- 6 Link Indicator(lit when linking)
- Network Connector
- Access Indicator (blinks when accessing)
- 9 12 V DC Power Supply Terminal ① External I/O Terminals
- ① Microphone/line Input Connector
- Audio Output Connector
- Monitor Out Connector for Adjustment
- (4) Safety Wire Holder
- (§ Camera Mount Bracket (accessory)
- (fis Safety Wire (fixed with the mount bracket)
- ① Decorative Cover Upper (accessory) ® Decorative Cover Lower (accessory)
- (19) Camera

Appearance



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- "MEGA Super Dynamic", "i-PRO SmartHD" logos are trademarks or registered trademarks of Panasonic Corporation.
- ONVIF and the ONVIF logo are trademarks of ONVIF Inc.

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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