

# **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

The followings are for installation.

.1 pc.

.1 pc.

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

Camera Mount Bracket .

Decorative Cover

· Power cable Plug.

• Camera Fixing Screw (M3)

#### Standard Accessories

- Installation Guide......
- CD-ROM\*1 .1 pc
- Code Label\*2 ...... .....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

# **Optional Accessories**



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

# **Specifications**

Camera	Image Sensor		Approx. 1/3 type MOS image sensor
	Scanning Mode		Progressive scan 5.35 mm(H) x 3.34 mm(V) [7/32 inches(H) x 1/8 inches(V)]
	Scanning Area		Color: 0.1 lx, BW: 0.013 lx (F1.6, Auto slow shutter: Off (1/30s), Gain: On(High))
	Minimum Illumination		Color: 0.007 lx, BW: 0.001 lx (F1.6, Auto slow shutter: Max. 16/30s, Gain: On(High))
	White Balance		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)
	Light Control 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
	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
	Dynamic Range		105 dB typical (Super Dynamic: On, Light Control mode: Indoor) *Theoretical value. Conventional measuring method: 52dB
	Adaptive Black Stretch		On / Off
	Fog compensation		On / Off (Super Dynamic and Adaptive black stretch: Off)
	Gain (AGC)		On (High) / On (Mid) / On (Low) / Off Off (1/30 s), max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s
	Auto slow shutter Day/Night (ICR)		Mode: AUT01 / AUT02 / AUT03 / On / Off, Level: High / Low, with external control
	Digital Noise Reduction		High / Low
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps
	Privacy Zone		Gray / Mosaic / Off (up to 32 zones available)
	VIQS Auto Imago Stabilizor		On / Off Up to 2 zones at preset position 1-8 and except preset
	Auto Image Stabilizer Camera Title (OSD)		On / Off On / Off Up to 20 characters (alphanumeric characters, marks)
	Focus distance		Limited {around 1.5m(4.9 ft)} / Unlimited
Lens	Focal Length		4.3 mm to 129.0 mm {3/16 inches - 5-3/32 inches}
	Zoom Ratio		30x / 45x HD 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: 2.3° (TELE) - 64° (WIDE), V: 1.3° (TELE) - 38° (WIDE) ([16:9] mode)* H: 1.7° (TELE) - 46° (WIDE), V: 1.3° (TELE) - 38° (WIDE) ([4:3]mode)
	Maximum Aperture Ratio		1 : 1.6 (WIDE) - 4.7 (TELE)
	Focusing Range		2.0 m - ∞
	Aperture Range		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 controller
	Tilting Pange		Preset: up to approx. 300°/s -25° to 205° (upward-level-downward)
	Tilting Range		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
		Preset Positions	
	Auto Mode		Auto track / Auto pan / Preset sequence / 360 map-shot / Patrol
	Image Hold Camera position display		On / Off Off / Pan-Tilt degree · Zoom ratio display / Direction display
	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
	Map Shot		
Browser	Map Shot Camera C		Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris,
	Camera C	ontrol	Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode
		ontrol	Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad
	Camera Co Display Mo	ontrol	Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode Spot, Quaci. Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only). 20 characters camera title available
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	Camera C Display Mo Camera Ti Clock Disp Alarm Con One Shot Audio	ontrol ode itle olay trrol Capture	Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode Sopt, Quad: Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only). 20 characters camera title available Up to 20 alphanumeric characters Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output : On / Off Volume adjustment: Low / Middle / High
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GUI	Camera C Display Mu Camera Ti Clock Disg Alarm Con One Shot I Audio SD Memor GUI/Setup System Lc Supported Supported Network IF Image Resc H.264	ontrol ode title Jaly trol Capture y Data Download Menu Language 99 d OS "2 d Browser = olution PEG) Transmission Mode	Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto 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 Up to 20 alphanumeric characters Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output : On / Off Volume adjustment: Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. English / Italian / French / German / Spanish / Portuguese / Russian / Chinese / Japanese Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error logs Microsoft® Windows® 1, Microsoft® Windows® 1, Microsoft® Windows® 8, Microsoft® Windows® 1, Microsoft® Windows® 1, Microsoft® Windows® 1, Windows® Internet Explorer® 1 (22 bit), Windows® Internet Explorer® 10 62 bit Windows® Internet Explorer® 7 (22 bit) 10Base-T / 10DBase-TX, RJ45 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 240 Constant bit rate / Vainable bit rate / Frame rate priorty / Best effort / Advanced VBF
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GUI	Camera C Display Mu Camera Ti Clock Disp Alarm Con One Shot - Audio SD Memor GUI/Setup System Lc Supported Supported Network If Image Resc H.264 JPEG (MJI	ontrol ode itle Jay trol Capture y Data Download Menu Language 29 4 OS "2 4 Browser E Dolution PEG) Transmission Mode Frame Rate Bit Rate/Client	Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto 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 Up to 20 alphanumeric characters Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output : On / Off Volume adjustment: Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. English Italian / French / German / Spanish / Portuguese / Russian / Chinese / Japanese Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8, 1, Microsoft® Windows® 8, Microsoft® Windows® 11 (32 bit), Windows® Internet Explorer® 10 82 bit Windows® Internet Explorer® 1 (32 bit), Windows® Internet Explorer® 10 82 bit Windows ® Internet Explorer® 7 (32 bit) 10Base-T / 100Base-TX, RJ45 connector • Image Capture Mode[16: 3)(30 fps) 1,280 x 720 / 640 x 380 / 320 x 240 Constant bit rate / Variable bit rate / Frame rate priority / Best effort / Advanced VBE 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 / 12,284 / 14,336 kbps
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GUI	Camera C Display Mu Camera Ti Clock Disg Alarm Con One Shot 1 Audio SD Memor GUI/Setup System Lc Supported Supported Network IF Image Resc H.264 <sup>*3</sup> JPEG (MJI H.264 <sup>*3</sup>	ontrol ode itle ode itle olay trol Capture y Data Download Menu Language 99 d OS '2 d Browser e olution PEG) Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type ions for Audio ate	Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto 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 availabl Up to 20 alphanumeric characters Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output : On / Off Volume adjustment: Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD memory carc can be downloaded. English / Italian / French / German / Sparish / Portuguese / Russian / Chinese / Japares Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error log Microsoft® Windows® 1, Microsoft® Windows® Internet Explorer® 10 (32 bil Windows® Internet Explorer® 1 (32 bil), Windows® Internet Explorer® 10 (32 bil Windows® Internet Explorer® 7 (32 bil) 10Base-T / 10DBase-TX, RJ45 connector • Image Capture Mode[16 : 9](30 fps) 1,280 x 720 / 640 x 360 / 320 x 180 • Image Capture Mode[16 : 9](30 fps) 1,280 x 720 / 640 x 360 / 320 x 240 Constant bit rate / Variable bit rate / Frame rate priortly / Best effort / Advanced VBI 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 34 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,1144 / 8,192 / 10,240 / 12,288 / 14,336 kbps Low / Normal / Fine On (Low / Mid) / High) / Off (Only when "Variable bit rate" is selected. 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 0. SUPER FINE / FINE/2 / 3 / 4 / 5 s Unicast / Multicast 0. SUPER FINE / FINE/2 / 3 / 4 / 5 s 0.1 fps to 30 fps Pull / Push 6.726 (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
GUI	Camera C Display Mu Camera Tri Clock Disk Alarm Con One Shot 1 Audio SD Memor GUI/Setup System Lc Supported Supported Supported Network If Image Resc H.264 "3 JPEG (MJI H.264 "3 JPEG Audio Com Audio Mod Authenticat Total Bit Ra Supported	ontrol ode ittle ode ittle ode ittle oda y Data Download Menu Language yg d OS '2 d Browser  ittle itt	Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto 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 Up to 20 alphanumeric characters Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output : On / Off Volume adjustment: Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD memory carc can be downloaded. English / Italian / French / German / Sparish / Portuguese / Russian / Chinese / Japanes Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error log Microsoft® Windows® 1, Microsoft® Windows® 1, Microsoft® Windows® 8, Microsoft® Windows® 1, Microsoft® Windows® 1, Microsoft® Windows® 8, Windows® Internet Explorer® 1 (32 bit), Windows® Internet Explorer® 10 62 bit Windows® Internet Explorer® 7 (32 bit) 10Base-T / 100Base-TX, RJ45 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 960 / 800 x 600 / 640 x 480 / 320 x 240 Constant bit rate / Vainable bit rate / Frame rate priority / Best effort / Advanced VBI 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,336 kbps Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected, 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 Unicast / Multicast 0 SUPER FINE / FINE / 2 / 3 / 4 / 5 S Unicast / Multicast 0 SUPER FINE / FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9 0.1 fps to 30 fps Pull / Push 6.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC'4 0ff / Mic (Line) input / Audio output / Interactive (Full duplex/ Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 152 / 768 / 1,024 / 1,264 / 1,96 / 8,192 kbps / Uniimitee IPv6: TCP/I
	Camera C Display Mu Camera Ti Clock Disg Alarm Con One Shot 1 Audio SD Memor GUI/Setup System Lc Supported Supported Network IF Image Resc H.264 <sup>*3</sup> JPEG (MJI H.264 <sup>*3</sup>	ontrol ode ittle ode ittle ode ittle oda y Data Download Menu Language yg d OS '2 d Browser  ittle itt	Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto 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 Up to 20 alphanumeric characters Imie: 12H/24H, Date: 5 formats on the browser, Summer time (Manual Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. English/Italian/French/German/Spanish/Portuguese/Russian/Chinese/Japarese Up to 100 (Internal) Up to 400 (SDXC/SDHCSD memory when the recording format is set to JPEG) error logs Microsoft® Windows® 10, Microsoft® Windows® Internet Explore® 10 (32 bit) Windows® Internet Explore® 3 (32 bit), Windows® Internet Explore® 10 (32 bit) Windows® Internet Explore® 7 (32 bit) UB to 400 (SDXCSDHCSD memory 40 (320 x 140) Microsoft® Windows® 1, Microsoft® Windows® Internet Explore® 10 (32 bit), Windows® Internet Explore® 7 (32 bit) UB as a 50 (500 x 600 / 320 x 180) • Image Capture Mode[4 : 3](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) • Image Capture Mode[4 : 3](30 fps) 1.280 x 720 / 641 x 360 / 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 4 / 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 Low / Normal / Fine 0 n (Low / Mid) / High) / Off (Only when "Variable bit rate" is selected; 0 2 / 0,25 / 0,33 / 0,5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 0 SUPER FINK / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9 0.1 (Low / Mid) / High) / Off (Only when "Variable bit rate" is selected; 0 2 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,288 / 414 dugled / Interactive (Ful dugled Low / Normal / Fine 0 / 10, UD / M
GUI	Camera C Display Mu Camera Tri Clock Disk Alarm Con One Shot 1 Audio SD Memor GUI/Setup System Lc Supported Supported Supported Network If Image Resc H.264 "3 JPEG (MJI H.264 "3 JPEG Audio Com Audio Mod Authenticat Total Bit Ra Supported	ontrol ode ittle ode ittle ode ittle oda y Data Download Menu Language yg d OS '2 d Browser  ittle itt	Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto 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 Up to 20 alphanumeric characters Imie: 12H/24H, Date: 5 formats on the browser, Summer time (Manual Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output : On / Off Volume adjustment: Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. English Italian / French / German / Spanish / Portugese / Russian / Chinese / Japares Up to 1000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error log Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8.1 Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit Windows® Internet Explorer® 12 (32 bit), Windows® Internet Explorer® 10 (32 bit Windows® Internet Explorer® 12 (32 bit), Windows® Internet Explorer® 12 (32 bit), Undows® Internet Explorer® 13 (30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240 Constant bit rate? / Variable bit rate? Frame rate piority / Best effort / Advanced VBE 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 (ps) 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240 Constant bit rate? / Variable bit rate? is selected. 0.2 / 0.25 / 0.34 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,

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

**DISTRIBUTED BY:** 

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 failur
		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 terminal
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 SUPPL'
		(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 \*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 When recording audio on an SD memory card, only AAC-LC (Advanced Audio Coding - Low Complexity) is used.

### 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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