Panasonic

Super Dynamic HD Vandal Resistant Fixed Dome Network Camera

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WV-SW352



HD / 1,280 x 960 H.264 Vandal Resistant Network Camera featuring Super Dynamic (WV-SW355) SVGA / 800 x 600 H.264 Vandal Resistant Network Camera featuring Super Dynamic (WV-SW352)

Key Features

- 720p HD images up to 30 fps (WV-SW355)
- Newly developed 1.3 Megapixel high sensitivity MOS Sensor (WV-SW355)
- Super high resolution at SVGA/800 x 600 created by newly developed 1.3 Megapixel high sensitivity MOS Sensor (WV-SW352)
- 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 (WV-SW355)
- Full frame (Up to 30 fps) transmission at SVGA/800 x 600 image size (WV-SW352)
- **Super Dynamic** and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- Face Super Dynamic Range technology ensures clear face image.
- H.264 and MPEG-4 are selectable for system migration.
 High sensitivity with True Day/Night function: WV-SW355: 0.3 lx (Color), 0.05 lx (B/W) at F1.6 (Wide) WV-SW352: 0.2 lx (Color), 0.04 lx (B/W) at F1.6 (Wide)
- VIQS (Variable Image Quality on Specified area) technology allows the designated area 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.
- ABF (Auto Back Focus) ensures easy installation.
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
 Up to 7.2x Extra Optical Zoom at VGA resolution.
 2.8-10 mm, 3.6x vari-focal auto iris lens (5.6-20 mm, 7.2x with Extra
- 2.8-10 mm, 3.6x vari-focal auto iris lens (5.6-20 mm, 7.2x with Extra Optical Zoom under VGA)
- VMD (Video Motion Detector) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 2 private areas, such as house windows and entrances/exits.
- Alarm sources including 1 terminal input, VMD and Panasonic alarm command can trigger actions such as SDHC/SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, and Panasonic 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.
- SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- H.264/MPEG-4 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.
- Multi-language GUI and setup menu: English, French, Italian, Spanish, German, Russian (PAL) / English, French (NTSC) * Installation required except for English
- IPv4/IPv6 protocol supported
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- ONVIF compliant model
- · Analog Monitor output for easier installation
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Dehumidification device for use in various weather conditions
- Vandal resistant mechanism for high reliability
- Optional heater maintains operating temperature –30 °C \sim +50 °C (–22 °F \sim 122 °F)

• Base Cover.

Butyl Tape

Mount Bracket..

Bit for Tamperproof Screw.....

*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.

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1 pc.

Standard Accessories

Installation Guide	
The followings are for installation. • 4P Alarm Cable1 pc.	
Camera Attachment	
• Eixing Screws (M4 x 8 mm)	

Optional Accessories



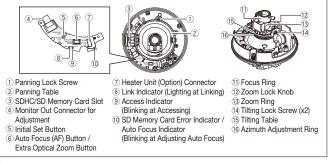
Specifications

Camera	m		NTSC	PAL
	Image Sensor		1/3 type MOS Sensor Approx. 1.3 megapixel	
	Effective Pixels Scanning Mode		Progressive scan	
	Scanning	-	4.8 mm (H) x 3.6 mm (V)	
		1 Illumination	WV-SW355:	
			Color: 0.3 lx, B/W: 0.05 lx at F1	6 (Shutter: 1/30 s, AGC: High),
			Color: 0.019 lx, B/W: 0.003 lx at F1.6 (Shutter: 1/50 s, AGC: High),	
			WV-SW352:	
			Color: 0.2 lx, B/W: 0.04 lx at F1	6 (Shutter: 1/30 s, AGC: High),
			Color: 0.013 lx, B/W: 0.002 lx at F	1.6 (Shutter: 16/30 s, AGC: High)
	White Ba	alance	AWC (2,000 ~ 10,000 K), ATW1 (2,70	0 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)
		ntrol Mode	Outdoor: Automatic integration	of ALC and ELC
			Indoor [50 Hz]: Automatic integrati	on of ALC and ELC (up to 1/100 s)
			Indoor [60 Hz]: Automatic integrati	on of ALC and ELC (up to 1/120 s)
	Shutter S	Speed	Fix shutter: 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 (only at Super-Dynamic Off
	Super D		ON / OFF	
		per Dynamic	ON / OFF (Only at Super Dynam	
		Black Stretch	ON / OFF (Only at Super Dynam	nic: OFF)
	AGC		ON (LOW, MID, HIGH) / OFF	
	Electronic Sensitivity UP			
	Black and White Mode		Mode:AUTO1 / AUTO2 / ON / OFF, Level:High / Low, with external control	
	Dynamic Range		52 dB typ. (Super Dynamic: On, Light control mode: indoor)	
	Digital Noise Reduction			
	Video Motion Detection			
	Privacy Zone		Up to 2 zones, Gray	
	VIQS Camera Title (OSD)		ON / OFF	
		. ,	Up to 20 characters (alphanumeric characters, marks)	
		djustment	ABF / MANUAL	
Lens	Vari Focal Length Angular Field of View		2.8 mm ~ 10 mm, 3.6x (5.6 mm ~ 20 mm, 7.2x with extra optical zoom (under VGA)) H: 27.7° (TELE) ~ 100.8° (WIDE), V: 20.8° (TELE) ~ 73.8° (WIDE)	
		n Aperture Ratio		, v. ∠U.O (IELE) ~ 73.8° (WIDE)
1	Focusing		1 : 1.6 (WIDE) ~ 1 : 3.6 (TELE)	
Adjusting		y naliye	0.3 m ~ ∞	
Aujusung	Angle		Horizontal: 180 ° (clockwise), 160 ° (counter clockwise), Vertical: ±75°, Image tilt adjustment range: ±100°	
Browser	Camera	Control	Brightness, AUX ON / OFF	lient lange. ±100
GUI	Display I			an be displayed in 4 different Qued
aon	Display I	vioue	Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad	
	Digital Z	oom	screens or 16 split screen (JPEG only). 20 characters camera title available.	
			1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters	
	Camera Title Clock Display		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual)	
			Reset	
	Alarm Control One Shot Capture		A still picture will be displayed on a newly opened window.	
	Audio		Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High,	
	Audio		Audio Output: ON / OFF Volume a	
	SD Memory Data Download		Still or motion Images recorded	
	SD Wernory Data Download		card can be downloaded.	In the SD10/SD memory
	GUI/Setup Menu Language		English, French	English, French, Italian,
			(Installation required for French)	Spanish, German, Russian
			(inclanation required for French)	(Installation required except for English
	System Log		Up to 100 (Internal), Up to 4,000	1 1 0
	Cystem Log		recording format is set to JPEG	
	Supported OS		Microsoft [®] Windows [®] 7 Profess	
	*1 *2		Microsoft [®] Windows Vista [®] Bus	
	12		Microsoft [®] Windows [®] XP Profe	
	Supported Browser		Windows [®] Internet Explorer [®] 8.0	
			Professional 64 bit/32 bit), Wind	
	1			siness SP1 32 bit), Microsoft®
			Internet Explorer [®] 6.0 SP3 (Microso	
Network	Network	IF		ft® Windows® XP Professional SP3)
Network	Network Image	IF Aspect ratio:	Internet Explorer® 6.0 SP3 (Microso	ft® Windows® XP Professional SP3)
Network		Aspect ratio:	Internet Explorer [®] 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45	ft [®] Windows [®] XP Professional SP3) connector
Network	Image	Aspect ratio:	Internet Explorer® 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H.264: 1,280 × 960 / VGA (640 × 480) / 0 MPEG-4: VGA (640 × 480) / 0VGA (320 :	ft [®] Windows [®] XP Professional SP3) connector WGA (320 × 240), up to 30 fps < 240), up to 30 fps
Network	Image Resolution	Aspect ratio:	Internet Explorer® 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H.264: 1,280 × 960 / VGA (640 × 480) / 0	ft [®] Windows [®] XP Professional SP3) connector WGA (320 × 240), up to 30 fps < 240), up to 30 fps
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Network	Image Resolution	Aspect ratio:	Internet Explorer [®] 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H.264: 1,280 × 960 / VGA (640 × 480) / MPE-4: VGA (640 × 480) / QVGA (320 JPEG (M-JPEG): 1,280 × 960 / VGA (640	ft [®] Windows [®] XP Professional SP3) connector VVGA (320 × 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps
Network	Image Resolution	Aspect ratio:	Internet Explorer® 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H.264: 1,280 × 960 / VGA (640 × 480) / O MPEG-4: VGA (640 × 480) / QVGA (320 JPEG (M-JPEG): 1,280 × 960 / VGA (640 WV-SW352:	ft [®] Windows [®] XP Professional SP3) connector WGA (320 × 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps VGA (320 × 240), up to 30 fps
Network	Image Resolution	Aspect ratio:	Internet Explorer [®] 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H264: 1/280 × 960 / VGA (640 × 480) / O MPEG-4: VGA (640 × 480) / OVGA (320 JPEG (M.JPEG): 1,280 × 960 / VGA (640 WV-SW352: H.264: 800 × 600 / VGA (640 × 480) / O	ft [®] Windows [®] XP Professional SP3) connector NVGA (320 × 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps VGA (320 × 240), up to 30 fps × 240), up to 30 fps
Network	Image Resolution	Aspect ratio: [4 : 3] Aspect ratio:	Internet Explorer® 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H.264: 1,280 × 960 / VGA (640 × 480) / 0 MPEG-4: VGA (640 × 480) / 0/VGA (320: JPEG (M-JPEG): 1,280 × 960 / VGA (640 WV-SW352: H.264: 800 × 600 / VGA (640 × 480) / 0 MPEG-4: VGA (640 × 480) / 0/GA (320: JPEG (M-JPEG): 800 × 600 / VGA (640 WV-SW355:	ft [®] Windows [®] XP Professional SP3) connector VVGA (320 × 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps × 240), up to 30 fps × 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps
Network	Image Resolution	Aspect ratio: [4 : 3]	Internet Explorer® 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: WP-SW355: WPEG-4: VGA (640 × 480) / QVGA (320 : JPEG (M-JPEG): 1,280 × 960 / VGA (640 WV-SW352: H-264: 800 × 600 / VGA (640 × 480) / Q MPEG-4: VGA (640 × 480) / QVGA (320 JPEG (M-JPEG): 800 × 600 / VGA (640 WV-SW355: H.264: 1,280 × 720 / 640 × 360	ft [®] Windows [®] XP Professional SP3) <u>connector</u> NGA (320 × 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps × 240), up to 30 fps × 440) / QVGA (320 × 240), up to 30 fps / 320 × 180, up to 30 fps
Network	Image Resolution	Aspect ratio: [4 : 3] Aspect ratio:	Internet Explorer® 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: WP-SW355: MPEG-4: VGA (640 × 480) / QVGA (320 JPEG (M-JPEG): 1,280 × 960 / VGA (640 WV-SW352: MPEG-4: VGA (640 × 480) / QVGA (320 JPEG (M-JPEG): 800 × 600 / VGA (640 WV-SW355: H.264: 100 × 720 / 640 × 360 JPEG (M-JPEG): 1,280 × 720 / 640	ft [®] Windows [®] XP Professional SP3) <u>connector</u> NGA (320 × 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps × 240), up to 30 fps × 440) / QVGA (320 × 240), up to 30 fps / 320 × 180, up to 30 fps
Network	Image Resolution	Aspect ratio: [4 : 3] Aspect ratio:	Internet Explorer® 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H264: 1280 × 960 / VGA (640 × 480) / C MPEG-4: VGA (640 × 480) / QVGA (320 : JPEG (M-JPEG): 1,280 × 960 / VGA (640 WV-SW352: H.264: 800 × 600 / VGA (640 × 480) / Q MPEG-4: VGA (640 × 480) / QVGA (320 JPEG (M-JPEG): 800 × 600 / VGA (640 WV-SW355: H.264: 1,280 × 720 / 640 × 360 JPEG (M-JPEG): 1,280 × 720 / 64 WV-SW352:	ft [®] Windows [®] XP Professional SP3) connector VGA (320 × 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps VGA (320 × 240), up to 30 fps × 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps / 320 × 180, up to 30 fps 10 × 360 / 320 × 180, up to 30 fps
Network	Image Resolution	Aspect ratio: [4 : 3] Aspect ratio:	Internet Explorer® 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H.264: 1,280 × 960 / VGA (640 × 480) / O MPEG-4: VGA (640 × 480) / OVGA (220) JPEG (M.JPEG): 1,280 × 960 / VGA (640 WV-SW352: H.264: 800 × 600 / VGA (640 × 480) / Q MPEG-4: VGA (640 × 480) / QVGA (320) JPEG (M.JPEG): 800 × 600 / VGA (640 WV-SW355: H.264: 1,280 × 720 / 640 × 360 JPEG (M-JPEG): 1,280 × 720 / 64	ft [®] Windows [®] XP Professional SP3) connector WGA (320 × 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps × 240), up to 30 fps × 240), up to 30 fps < 480) / QVGA (320 × 240), up to 30 fps / 320 × 180, up to 30 fps 0 × 360 / 320 × 180, up to 30 fps pt to 30 fps
Network	Image Resolution	Aspect ratio: [4 : 3] Aspect ratio:	Internet Explorer® 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H264: 1280 × 960 / VGA (640 × 480) / C MPEG-4: VGA (640 × 480) / QVGA (320 : JPEG (M-JPEG): 1,280 × 960 / VGA (640 WV-SW352: H.264: 800 × 600 / VGA (640 × 480) / Q MPEG-4: VGA (640 × 480) / QVGA (320 JPEG (M-JPEG): 800 × 600 / VGA (640 WV-SW355: H.264: 1,280 × 720 / 640 × 360 JPEG (M-JPEG): 1,280 × 720 / 64 WV-SW352:	ft [®] Windows [®] XP Professional SP3) connector WGA (320 × 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps × 240), up to 30 fps × 240), up to 30 fps < 480) / QVGA (320 × 240), up to 30 fps / 320 × 180, up to 30 fps 0 × 360 / 320 × 180, up to 30 fps pt to 30 fps
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Network	Image Resolution *3 *4 H.264/	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9]	Internet Explorer® 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H264: 1280 × 960 / VGA (640 × 480) / C MPEG-4: VGA (640 × 480) / QVGA (320 : JPEG (M-JPEG): 1,280 × 960 / VGA (640 WV-SW352: H.264: 800 × 600 / VGA (640 × 480) / Q MPEG-4: VGA (640 × 480) / QVGA (320 JPEG (M-JPEG): 800 × 600 / VGA (640 WV-SW355: H.264: 1,280 × 720 / 640 × 360 JPEG (M-JPEG): 1,280 × 720 / 64 WV-SW352: H.264: 640 × 360 / 320 × 180, L JPEG (M-JPEG): 640 × 360 / 32 Constant bitrate / Framerate pri 1/3/5/7.5/10/15/20/30 fps	ft® Windows® XP Professional SP3) connector VGA (320 × 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps × 240), up to 30 fps × 240), up to 30 fps × 440) / QVGA (320 × 240), up to 30 fps / 320 × 180, up to 30 fps 10 × 360 / 320 × 180, up to 30 fps pt o 30 fps 0 × 180, up to 30 fps ority / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps
Network	Image Resolution *3 *4 H.264/	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode	Internet Explorer® 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H264: 1280 × 960 / VGA (640 × 480) / C MPEG-4: VGA (640 × 480) / QVGA (320 : JPEG (M-JPEG): 1,280 × 960 / VGA (640 WV-SW352: H.264: 800 × 600 / VGA (640 × 480) / Q MPEG-4: VGA (640 × 480) / QVGA (320 JPEG (M-JPEG): 800 × 600 / VGA (640 WV-SW355: H.264: 1,280 × 720 / 640 × 360 JPEG (M-JPEG): 1,280 × 720 / 64 WV-SW352: H.264: 640 × 360 / 320 × 180, u JPEG (M-JPEG): 640 × 360 / 32 Constant bitrate / Framerate pri 1/3/5/7.5/10/15/20/30 fps	ft® Windows® XP Professional SP3) connector VGA (320 × 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps × 240), up to 30 fps × 240), up to 30 fps × 440) / QVGA (320 × 240), up to 30 fps / 320 × 180, up to 30 fps 10 × 360 / 320 × 180, up to 30 fps pt o 30 fps 0 × 180, up to 30 fps ority / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps
Network	Image Resolution *3 *4 H.264/ MPEG-4	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate	Internet Explorer® 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H264: 1280 × 960 / VGA (640 × 480) / C MPEG-4: VGA (640 × 480) / QVGA (320 : JPEG (M-JPEG): 1,280 × 960 / VGA (640 WV-SW352: H.264: 800 × 600 / VGA (640 × 480) / Q MPEG-4: VGA (640 × 480) / QVGA (320 JPEG (M-JPEG): 800 × 600 / VGA (640 WV-SW355: H.264: 1,280 × 720 / 640 × 360 JPEG (M-JPEG): 1,280 × 720 / 64 WV-SW352: H.264: 640 × 360 / 320 × 180, L JPEG (M-JPEG): 640 × 360 / 32 Constant bitrate / Framerate pri 1/3/5/7.5/10/15/20/30 fps	ft [®] Windows [®] XP Professional SP3 connector WGA (320 × 240), up to 30 fps × 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps × 240, up to 30 fps × 240, up to 30 fps / 320 × 180, up to 30 fps / 320 × 180, up to 30 fps 0 × 360 / 320 × 180, up to 30 fps 0 × 180, up to 30 fps 0 × 180, up to 30 fps 0 × 180, up to 30 fps 1 / 3 / 5 / 7 / 5 / 10 / 12 / 15 / 20 / 30 fps / 1,022 / 1,536 / 2,048 / 3,072 /
Network	Image Resolution *3 *4 H.264/ MPEG-4	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate	Internet Explorer [®] 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: Hz64: 1280 × 960 / VGA (640 × 480) / O MPEG-4: VGA (640 × 480) / OVGA (320) JPEG (M-JPEG): 1,280 × 960 / VGA (640 WV-SW352: H.264: 800 × 600 / VGA (640 × 480) / Q MPEG-4: VGA (640 × 480) / OVGA (320) JPEG (M-JPEG): 800 × 600 / VGA (640 WV-SW355: H.264: 1,280 × 720 / 640 × 360 JPEG (M-JPEG): 640 × 360 / 32 Constant bitrate / Framerate pri 1/3 / 57 / 37 / 10 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768	ft [®] Windows [®] XP Professional SP3 connector WGA (320 × 240), up to 30 fps × 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps × 240, up to 30 fps × 240, up to 30 fps / 320 × 180, up to 30 fps / 320 × 180, up to 30 fps 0 × 360 / 320 × 180, up to 30 fps 0 × 180, up to 30 fps 0 × 180, up to 30 fps 0 × 180, up to 30 fps 1 / 3 / 5 / 7 / 5 / 10 / 12 / 15 / 20 / 30 fps / 1,022 / 1,536 / 2,048 / 3,072 /
Network	Image Resolution *3 *4 H.264/ MPEG-4	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client	Internet Explorer® 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H264: 1280 × 960 / VGA (640 × 480) / C MPEG-4: VGA (640 × 480) / QVGA (320 : JPEG (M-JPEG): 1,280 × 960 / VGA (640 WV-SW352: H.264: 800 × 600 / VGA (640 × 480) / Q MPEG-4: VGA (640 × 480) / QVGA (320 JPEG (M-JPEG): 800 × 600 / VGA (640 WV-SW352: H.264: 1,280 × 720 / 640 × 360 JPEG (M-JPEG): 1,280 × 720 / 64 WV-SW352: H.264: 640 × 360 / 320 × 180, L JPEG (M-JPEG): 640 × 360 / 32 Constant bitrate / Framerate pri 1/3/5/7.5/10/15/20/30 fps 64 / 128 / 256 / 328 / 512 / 768 4,096 / 8,192* kbps * H.264 m LOW / NORMAL / FINE	ft [®] Windows [®] XP Professional SP3) connector NGA (320 × 240), up to 30 fps < 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps × 240, up to 30 fps < 480) / QVGA (320 × 240), up to 30 fps / 320 × 180, up to 30 fps 10 × 360 / 320 × 180, up to 30 fps p to 30 fps 0 × 180, up to 30 fps 0 × 180, up to 30 fps 1 / 3 / 5 / 7 / 5 / 10 / 12 / 15 / 20 / 30 fps / 1,022 / 1,536 / 2,048 / 3,072 /
Network	Image Resolution *3 *4 H.264/ MPEG-4	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval	Internet Explorer® 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H264: 1280 × 960 / VGA (640 × 480) / C MPEG-4: VGA (640 × 480) / QVGA (320 : JPEG (M-JPEG): 1,280 × 960 / VGA (640 WV-SW352: H.264: 800 × 600 / VGA (640 × 480) / Q MPEG-4: VGA (640 × 480) / QVGA (320 JPEG (M-JPEG): 800 × 600 / VGA (640 WV-SW352: H.264: 1,280 × 720 / 640 × 360 JPEG (M-JPEG): 1,280 × 720 / 64 WV-SW352: H.264: 640 × 360 / 320 × 180, L JPEG (M-JPEG): 640 × 360 / 32 Constant bitrate / Framerate pri 1/3/5/7.5/10/15/20/30 fps 64 / 128 / 256 / 328 / 512 / 768 4,096 / 8,192* kbps * H.264 m LOW / NORMAL / FINE	ft [®] Windows [®] XP Professional SP3) connector NGA (320 × 240), up to 30 fps < 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps × 240, up to 30 fps < 480) / QVGA (320 × 240), up to 30 fps / 320 × 180, up to 30 fps 10 × 360 / 320 × 180, up to 30 fps p to 30 fps 0 × 180, up to 30 fps 0 × 180, up to 30 fps 1 / 3 / 5 / 7 / 5 / 10 / 12 / 15 / 20 / 30 fps / 1,022 / 1,536 / 2,048 / 3,072 /
Network	Image Resolution *3 *4 H.264/ MPEG-4	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval	Internet Explorer [®] 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H264: 1,280 × 960 / VGA (640 × 480) / O MPEG-4: VGA (640 × 480) / OVGA (220) JPEG (M-JPEG): 1,280 × 960 / VGA (640 WV-SW352: H.264: 800 × 600 / VGA (640 × 480) / Q MPEG-4: VGA (640 × 480) / QVGA (220) JPEG (M-JPEG): 800 × 600 / VGA (640 WV-SW355: H.264: 1,280 × 720 / 640 × 360 JPEG (M-JPEG): 1,280 × 720 / 64 WV-SW352: H.264: 640 × 360 / 320 × 180, L JPEG (M-JPEG): 640 × 360 / 32 Constant bitrate / Framerate pri 1/3/5/7.5/10/15/20/30 [ps 64 / 128 / 256 / 384 / 512 / 768 4,096 / 8,192' Kbps * H.264 mo LOW / NORMAL / FINE	ft [®] Windows [®] XP Professional SP3) connector NGA (320 × 240), up to 30 fps < 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps × 240, up to 30 fps < 480) / QVGA (320 × 240), up to 30 fps / 320 × 180, up to 30 fps 10 × 360 / 320 × 180, up to 30 fps p to 30 fps 0 × 180, up to 30 fps 0 × 180, up to 30 fps 1 / 3 / 5 / 7 / 5 / 10 / 12 / 15 / 20 / 30 fps / 1,022 / 1,536 / 2,048 / 3,072 /
Network	Image Resolution *3 *4 H.264/ MPEG-4 *5 *6	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type	Internet Explorer [®] 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H264: 1280 × 960 / VGA (640 × 480) / O MPEG-4: VGA (640 × 480) / OVGA (320) JPEG (M-JPEG): 1,280 × 960 / VGA (640 WV-SW352: H.264: 800 × 600 / VGA (640 × 480) / Q MPEG-4: VGA (640 × 480) / QVGA (320) JPEG (M-JPEG): 800 × 600 / VGA (640 WV-SW355: H.264: 1,280 × 720 / 640 × 360 JPEG (M-JPEG): 1,280 × 720 / 64 WV-SW352: H.264: 640 × 360 / 320 × 180, L JPEG (M-JPEG): 640 × 360 / 32 Constant bitrate / Framerate pri 1/315/7.5/101/15/20/30 (ps 64 / 128 / 256 / 384 / 512 / 768 4,096 / 8,192* kbps * H.264 mo LOW / NORMAL / FINE 0.1 fps - 30 fps UNICAST / MULTICAST	ft [®] Windows [®] XP Professional SP3) connector NGA (320 × 240), up to 30 fps < 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps × 240, up to 30 fps < 480) / QVGA (320 × 240), up to 30 fps / 320 × 180, up to 30 fps 10 × 360 / 320 × 180, up to 30 fps p to 30 fps 0 × 180, up to 30 fps 0 × 180, up to 30 fps 1 / 3 / 5 / 7 / 5 / 10 / 12 / 15 / 20 / 30 fps / 1,022 / 1,536 / 2,048 / 3,072 /
Network	Image Resolution *3 *4 H.264/ MPEG-4 *5 *6 JPEG	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Image Quality	Internet Explorer [®] 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: WI-28W355: WV-SW355: H264: 1/280 × 960 / VGA (640 × 480) / Q MPEG-4: VGA (640 × 480) / QVGA (320 : JPEG (M-JPEG): 1,280 × 960 / VGA (640 WV-SW352: H264: 800 × 600 / VGA (640 × 480) / Q MPEG-4: VGA (640 × 480) / QVGA (320 JPEG (M-JPEG): 800 × 600 / VGA (640 WV-SW355: H1.264: 1,280 × 720 / 640 × 360 JPEG (M-JPEG): 1,280 × 720 / 64 WV-SW352: L264: 640 × 360 / 320 × 180, L JPEG (M-JPEG): 640 × 360 / 32 Constant bitrate / Framerate pri 1/3 / 5 / 7.5 / 10 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 4,096 / 8,192* kbps * H.264 mo LOW / NORMAL / FINE 0.1 fps ~ 30 fps UNICAST / MULTICAST 10 steps	ft [®] Windows [®] XP Professional SP3) connector NGA (320 × 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps × 240), up to 30 fps × 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps / 320 × 180, up to 30 fps 10 × 360 / 320 × 180, up to 30 fps 0 × 180, up to 30 fps 1 / 3/5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps / 1,024 / 1,536 / 2,048 / 3,072 / de only (SW355)
Network	Image Resolution *3 *4 H.264/ MPEG-4 *5 *6 JPEG	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Transmission Type Image Quality Transmission Type Image Quality Transmission Type Image State Transmission Type Transmission Type	Internet Explorer® 6.0 SP3 (Microso 10Base-T / 100Base-TX, RJ-45 WV-SW355: H248 × 980 / VGA (640 × 480) / 0 MPEG-4: VGA (640 × 480) / 0VGA (320 : JPEG (M-JPEG): 1,280 × 960 / VGA (640 WV-SW352: H.264: 800 × 600 / VGA (640 × 480) / 0 MPEG-4: VGA (640 × 480) / 0VGA (320 JPEG (M-JPEG): 800 × 600 / VGA (640 WV-SW352: H.264: 1,280 × 720 / 640 × 360 JPEG (M-JPEG): 1,280 × 720 / 64 WV-SW352: H.264: 640 × 360 / 320 × 180, L JPEG (M-JPEG): 640 × 360 / 32 Constant bitrate / Framerate pri 1/3/5/7.5/10/15/20/30 fps 64 / 128 / 256 / 328 / 512 / 768 64,906 / 8,192* kbps * H.264 m LOW / NORMAL / FINE 0.1 fps ~ 30 fps UNICAST / MULTICAST 10 steps PULL / PUSH	ft [®] Windows [®] XP Professional SP3) connector NGA (320 × 240), up to 30 fps < 240), up to 30 fps × 480) / QVGA (320 × 240), up to 30 fps × 240, up to 30 fps × 240, up to 30 fps / 320 × 180, up to 30 fps / 320 × 180, up to 30 fps 0 × 360 / 320 × 180, up to 30 fps ority / Best effort / 1/3/5/7.5/10/12/15/20/30 fps / 1/324 / 1,536 / 2,048 / 3,072 / de only (SW355)

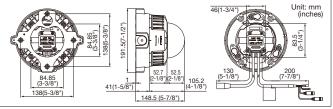
TV System		NTSC	PAL	
Network	Total Bit Rate	64 / 128 / 256 / 384 / 512 / 768 / 1,024	/ 2,048 / 4,096 / 8,192 kbps / Unlimited	
	Supported Protocol	IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6		
		IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTS	P, RTP, RTP/RTCP, FTP, SMTP, DHCP,	
		DNS, DDNS, NTP, SNMP, UPnP		
	FTP Client	Alarm image transmission, FTP periodic t	transmission (When the FTP transmission	
		is failed, backup on an optional SDHC/SD memory card is available.)		
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory	H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC		
	Card (Option)	JPEG recording: Manual REC / Alarm REC (Post) / Backup upon		
		network failure Compatible SD (SDHC) card: Panasonic 256 MB, 512		
		MB, 1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB* model * SDHC card		
	Cellular Phone Compatibility	JPEG image, AUX control (by access level)		
Alarm	Alarm Source	1 terminal input, VMD, Command alarm		
	Alarm Actions	SDHC/SD memory recording, E-mail notification, Alarm terminal output,		
		Indication on browser, FTP image transfer, Panasonic protocol output		
	Alarm Log	With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card: 1,000 logs		
	Schedule	Alarm / VMD / Access permission / H.264 recording		
Input/	Monitor Output	VBS: 1.0 V [p-p]/75 Ω,	VBS: 1.0 V [p-p]/75 Ω,	
Output	(for adjustment)	NTSC composite, RCA Jack	PAL composite, RCA 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 \pm 0.5 V Input impedance: approx. 2 k Ω		
	Audio Output	ø3.5 mm stereo mini jack (monaural output) Line level		
	External I/O Terminals	ALARM IN, DAY/NIGHT IN, ALARM OUT, AUX OUT		
General	Safety/EMC Standard	UL (UL60950-1), FCC (Part15 ClassA),	CE	
		C-UL (CAN/CSA C22.2 No.60950-1),	(EN55022 ClassB, EN55024)	
		DOC (ICES003 ClassA)		
	Power Source and			
	Power Consumption	* FOR UL LISTED MODEL(S), ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY.		
		PoE (IEEE 802.3af compliant) 48 V: 80 mA, 240 mA *7 (Class 0 device)		
	Ambient Operating Temperature	-10 °C ~ +50 °C (14 °F ~ 122 °F), -30 °C to +50 °C (-22 °F to 122 °F) *7		
	Ambient Operating Humidity	90 % or less (without condensation)		
	Impact Protection	IEC 60068-2-75 test Eh, 50 J / IEC 62262 IK10		
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible		
	Dimensions		5 mm (H), 191.5 mm (W) (Base Cover)	
		(ø6-15/32" x 5-7/8" (H), 7-9/16" (W) (Base Cover))		
	Mass (approx.)	1.6 kg (3.53 lbs.)		

*1 Refer to "Notes on Windows Vista[®] / Windows[®] 7" (PDF) on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft Windows 7 or Microsoft Windows Vista. *2 When using IPv6 for communication, use Microsoft Windows 7 or Microsoft Windows Vista. *3 MPEG-4 is not supported. *4 [4 : 3] and [16 : 9] are alternative. *5 H.264 and MPEG-4 are alternative. *6 Transmission for 2 streams can be individually set in the same compression method. *7 With optional Heater Unit WV-SW3H

Part Names and Functions



Appearance



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Important

- Safety Precaution: Carefully read the operating instructions and installation manual before using this product. - Panasonic cannot be responsible for the performance of the network and/or other manufacturers products used on the network.

- All TV pictures are simulated.
 - · Masses and dimensions are approximate.
 - Specifications are subject to change without notice.
 These products may be subject to export control regulations.
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