Panasonic

Super Dynamic HD Vandal Resistant Fixed Dome Network Camera

WV-SW355

Super Dynamic Vandal Resistant Fixed Dome Network Camera

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 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 ~ +50 °C (-22 °F ~ 122 °F)

Standard Accessories

• Installation Guide	Base Cover	
The followings are for installation.	Butyl Tape 1 pc.	
4P Alarm Cable 1 pc.		
Camera Attachment	*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

Embedded Smoke Dome Cover Ceiling Mount Bracke WV-CW4S WV-Q169

Heater Unit WV-SW3H

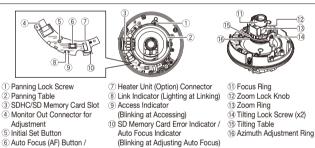
Specifications

TV Systen Camera		ensor	NTSC PAL 1/3 type MOS Sensor	
oarnera	Image Se Effective		1/3 type MOS Sensor Approx. 1.3 megapixel	
	Scanning		Progressive scan	
	Scanning		4.8 mm (H) x 3.6 mm (V)	
		n 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: 16/30 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 F1.6 (Shutter: 16/30 s, AGC: High)	
White Balar Light Contro			AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 Outdoor: Automatic integration of ALC and ELC Indoor [50 Hz]: Automatic integration of ALC and ELC (up to 1/100	
	Shutter S	Speed	Indoor [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 s) 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 Dynamic		ON / OFF ON / OFF (Only at Super Dynamic: ON)	
	Face Super Dynamic Adaptive Black Stretch		ON / OFF (Only at Super Dynamic: OFF)	
	AGC	DIACK OLIVECTI	ON (LOW, MID, 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)	
		d White Mode	Mode:AUTO1 / AUTO2 / ON / OFF, Level:High / Low, with external contro	
	Dynamic	Range	52 dB typ. (Super Dynamic: On, Light control mode: indoor)	
			High / Low	
			4 areas, Sensitivity: 15 steps, Detection size: 10 steps	
	Privacy Zone		Up to 2 zones, Gray ON / OFF	
	VIQS Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks)	
		djustment	ABF / MANUAL	
Lens		al Length	2.8 mm ~ 10 mm, 3.6x (5.6 mm ~ 20 mm, 7.2x with extra optical zoom (under VGA))	
		Field of View	H: 27.7° (TELE) ~ 100.8° (WIDE), V: 20.8° (TELE) ~ 73.8° (WIDE)	
	Maximum Aperture Ratio		1 : 1.6 (WIDE) ~ 1 : 3.6 (TELE)	
	Focusing	Range	0.3 m ~ ∞	
Adjusting	Angle		Horizontal: 180 ° (clockwise), 160 ° (counter clockwise),	
Browser	Camera	Control	Vertical: ±75°, Image tilt adjustment range: ±100°	
GUI	Display I		Brightness, AUX ON / OFF 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.	
	Digital Zoom		1x, 2x, 4x controlled by browser GUI	
	Camera Title		Up to 20 alphanumeric characters	
	Clock Display		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		Audio Output: ON / OFF Volume adjustment: Low / Middle / High	
	SD Memory Data Download			
			card can be downloaded.	
	GUI/Setup Menu Language		English, French (Installation required for French) English, French, Italian, Spanish, German, Russian	
	System Log		(Installation required except for English) Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when the recording format is set to JPEG.) error logs	
	Supporte	ed OS	Microsoft® Windows® 7 Professional 64 bit/32 bit,	
	*1 *2		Microsoft® Windows Vista® Business SP1 32 bit,	
			Microsoft® Windows® XP Professional SP3	
	Supporte	ed Browser	Windows® Internet Explorer® 8.0 32 bit (Microsoft® Windows® 7	
			Professional 64 bit/32 bit), Windows® Internet Explorer® 7.0	
			(Microsoft® Windows Vista® Business SP1 32 bit), Microsoft® Internet Explorer® 6.0 SP3 (Microsoft® Windows® XP Professional SP3	
Network	Network	IF	10Base-T / 100Base-TX, RJ-45 connector	
	Image	Aspect ratio:	WV-SW355:	
	Resolution		H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps	
	*3 *4		MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps	
			JPEG (M-JPEG): 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps	
			WV-SW352:	
			H.264: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps	
			MPEG-4: VGA (640×480) / QVGA (320×240) , up to 30 fps JPEG (M-JPEG): 800×600 / VGA (640×480) / QVGA (320×240) , up to 30 fp.	
		Aspect ratio:	WV-SW355:	
		[16:9]	H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps	
			JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps	
			WV-SW352:	
			H.264: 640 × 360 / 320 × 180, up to 30 fps	
			JPEG (M-JPEG): 640 × 360 / 320 × 180, up to 30 fps	
	H.264/		Constant bitrate / Framerate priority / Best effort	
	MPEG-4 Frame Rate 1/3/5/7.5/10/15/20/30 fps 1/3/5/7.5/10/12 *5 *6 Bit Rate/Client 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2 4,096 / 8,192* kbps * H.264 mode only (SW355) Image Quality LOW / NORMAL / FINE			
		Refresh Interval		
			UNICAST / MULTICAST	
	JPEG	Image Quality	10 steps	
	Transmission Type		PULL / PUSH	
	Audio Compression		G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps	
	Authorization for Audio		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users	
	Authentication for Audio			

TV Syster	n	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, RTF	P, FTP, SMTP, DNS, NTP, SNMP, DHCPv6	
		IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP,		
		DNS, DDNS, NTP, SNMP, UPnP		
	FTP Client	Alarm image transmission, FTP periodic 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 ne		
	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 With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card: 1,000 log Alarm / VMD / Access permission / H.264 recording		
	Alarm Log			
	Schedule			
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.		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	12 V DC: 300 mA, 1.1 A *7		
	Power Consumption	ion 'FOR ULLISTED MODEL(\$), ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY. PoE (IEEE 802.3af compliant) 48 V: 80 mA, 240 mA '7 (Class 0 device) apperature -10 °C - +50 °C (14 °F - 122 °F), -30 °C to +50 °C (-22 °F to 122 °F) '7 fumidity 90 % or less (without condensation) iEC 60068-2-75 test Eh, 50 J / IEC 62262 IK10		
	· ·			
	Ambient Operating Temperature			
	Ambient Operating Humidity			
	Impact Protection			
	Water and Dust Resistance			
	Dimensions ø164 mm x 148.5 mm (H), 191.5 mm (W) (Base Cover)		<u> </u>	
		(ø6-15/32" x 5-7/8" (H), 7-9/16" (W) (Base Cover))		
	Mass (approx.)	1.6 kg (3.53 lbs.)		
	1 - Veri - 7			

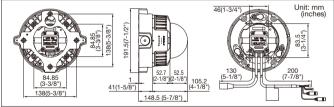
**1 Refer to "Notes on Windows Vista® / Windows® 7" (PDF) on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft Windows 7 or Microsoft Windows Vista. **2 When using IPv6 for communication, use Microsoft Windows 7 or Microsoft Windows Vista. **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

Extra Optical Zoom Button



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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
- - 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.

• All product pictures are NTSC models.

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