



## WV-SW155/WV-SW152 DOME NETWORK CAMERAS FOR USE WITH THE i-PRO TRANSIT SYSTEM

- 720 HD images up to 30 fps (WV-SW155)
- Multiple H.264 and JPEG streams for real-time monitoring and recording
- Wide coverage (Horizontal: 104°, Vertical: 85°)
- Super Dynamic and Adaptive Black Stretch technologies deliver 128x wider dynamic range compared to conventional cameras
- SDHC/SD memory card slot for manual recording (H.264/JPEG), alarm recording (H.264/JPEG) and backup recording upon network failure (JPEG)
- IP66-rated for water and dust resistance



(WV-SW155)



## RELIABLE IMAGING QUALITY AND VANDAL-RESISTANT DESIGN FOR INDOOR/OUTDOOR ENVIRONMENTS.

The vandal-resistant Panasonic i-PRO SmartHD WV-SW155 and WV-SW152 dome network cameras are low profile with an IP66 design for the ability to survive the harshest environments. With Super Dynamic and Adaptive Black Stretch technologies, they deliver a 128x wider dynamic range than conventional cameras for increased visibility of subjects in dark areas with no degradation of the image quality in brighter areas. Featuring high-resolution processing by UniPhier®, they deliver full-frame rate transmission at up to 30 fps for reliable surveillance capability.

# Super Dynamic HD Vandal-resistant Dome Network Camera

## WV-SW155/WV-SW155M

# Super Dynamic Vandal-resistant Dome Network Camera

## WV-SW152/WV-SW152M

# Panasonic

CAMERA	
Image Sensor	1/3 type MOS image sensor
Effective Pixels	Approx. 1.3 megapixels
Scanning Mode	Progressive
Scanning Area	4.8 mm (H) x 3.6 mm (V) [3/16" (H) x 5/32" (V)]
Minimum Illumination	WV-SW155: Color: 0.8 lx (F2.2, Auto slow shutter: Off (1/30s), Gain: On (High)) 0.05 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain: On (High)) BW: 0.6 lx (F2.2, Auto slow shutter: Off (1/30s), Gain: On (High)) 0.04 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain: On (High)) WV-SW152: Color: 0.6 lx (F2.2, Auto slow shutter: Off (1/30s), Gain: On (High)) 0.04 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain: On (High)) BW: 0.4 lx (F2.2, Auto slow shutter: Off (1/30s), Gain: On (High)) 0.03 lx (F2.2, 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	Indoor scene (50 Hz / 60 Hz) / ELC
ELC (Maximum Exposure Time)	With Super Dynamic ON ELC (1/30s) With Super Dynamic OFF ELC (1/30s), ELC (3/100s), ELC (3/120s), ELC (2/100s), ELC (2/120s), ELC (1/100s), ELC (1/120s), ELC (1/250s), ELC (1/500s), ELC (1/1,000s), ELC (1/2,000s), ELC (1/4,000s), ELC (1/10,000s)
Day & Night (Electrical)	OFF / AUTO
Digital Noise Reduction	HIGH/LOW
Face Detection	ON/OFF (with the XML notification setting)
Super Dynamic	ON/OFF
Dynamic Range	52 dB typ. (Super Dynamic: ON, Light Control: ELC)
Adaptive Black Stretch	ON/OFF
AGC	ON (HIGH) / ON (MID) / ON (LOW) / OFF
Auto Slow Shutter	OFF (1/30 s), Max. 2/30 s, Max. 4/30 s, Max. 6/30 s, Max. 10/30 s, Max. 16/30 s
Video Motion Detection	ON / OFF, 4 areas available
Privacy Zone	ON / OFF (up to 2 zones available)
VIQS	ON/OFF
Camera Title	Up to 20 characters (alphanumeric characters, marks), On/Off
LENS	
Focal Length	1.95 mm
Zoom Ratio	1x / Extra zoom: 2x (under VGA resolution)
Maximum Aperture Ratio	01:02.2
Adjusting Angle	Ceiling Installation H: -20° to +20°, V: -20° to +90° Wall Installation H: -80° to +80°, V: -90° to +20°
Angular Field of View	Horizontal: 104°, Vertical: 85°
BROWSER GUI	
Supported OS <sup>2,3</sup>	Microsoft® Windows® 7, Microsoft® Windows Vista®, GUI Microsoft® Windows® XP SP3
Supported Browser	Windows® Internet Explorer® 9.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit) Windows® Internet Explorer® 7.0 (32 bit) Microsoft® Internet Explorer® 6.0 SP3
NETWORK	
Network IF	WV-SW155/WV-SW152 10Base-T / 100Base-TX, RJ-45 connector (female) WV-SW155M/WV-SW152M 10Base-T / 100Base-TX, M-12 connector (male)
Image Resolution	Aspect ratio: [4:3] WV-SW155: H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / 640 x 480 / 320 x 240, up to 30 fps WV-SW152: H.264: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG (MJPEG): 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps Aspect ratio: [16:9] WV-SW155: 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 WV-SW152: H.264: 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 640 x 360 / 320 x 180, up to 30 fps Frame Rate 1 / 3 / 5 / 7.5 / 10 / 15 / 20 / 30 fps 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Bit Rate/Client Constant Bit Rate / Best effort: 64 kbps / 128 kbps / 256 kbps / 384 kbps / 512 kbps / 768 kbps / 1,024 kbps / 1,536 kbps / 2,048 kbps / 3,072 kbps / 4,096 kbps / 8,192 kbps (WV-SW155) Image Quality LOW / NORMAL / FINE Transmission Type UNICAST / MULTICAST

NETWORK (CONT.)		
JPEG (MJPEG) <sup>4</sup>	Image Quality	0 SUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9)
	Transmission Type	PULL / PUSH
Transmission Interval	0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.)	
Bandwidth Control	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, 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.)	
Multi-Screen	Up to 16 camera images can be displayed simultaneously on a multi-screen. (Including the camera itself)	
Maximum Concurrent Access Number	14 (Depends on network conditions)	
SDHC/SD Memory Card (Option)	Manufactured by Panasonic SDHC memory card: 4 GB, 8 GB, 16 GB, 32 GB SD memory card: 256 MB, 512 MB, 1 GB, 2 GB (except miniSD card and microSD card)	
Cellular Phone Compatibility	JPEG Image	
Mobile Terminal Compatibility	iPAD, iPhone, iPod touch	
ALARM		
Alarm Source	VMD, Command alarm	
Alarm Actions	E-mail notification, Indication on browser, FTP image transfer, Panasonic protocol output	
Alarm Log	ON/OFF	
Schedule	VMD	
GENERAL		
Power Source/Consumption	PoE (IEEE802.3af compliant) / PoE 48 V, 56 mA (Class 1 device)	
Ambient Operating Temperature/Humidity	-30°C to +50°C (14°F to 122°F) / Less than 90% (no condensation)	
Waterproof	Camera: IP66 [IEC60529] <sup>5</sup>	
Shock Resistance	Compliant with 50 J IEC60068-2-75	
Dimensions	109 mm x 47 mm (H) [6-15/32" x 5-3/4" (H)]	
Mass (approx.)	350g (0.77 lbs.)	
Finish	Main body: Aluminum die cast, light gray Dome section: Clear polycarbonate resin	

<sup>1</sup> Converted value  
<sup>2</sup> Refer to "Notes on Windows Vista® / Windows® 7" 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®  
<sup>3</sup> When using IPv6 for communication, use Microsoft® Windows® 7 or Microsoft® Windows Vista®  
<sup>4</sup> Transmission for 2 streams can be individually set in the same compression method  
<sup>5</sup> Only when installation work specified in this book is properly performed and appropriate waterproof treatment is performed



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**i-PRO**  
**SmartHD**