

NTSC WV-CW504S (24 V AC or 12 V DC)
 PAL WV-CW500S (220 ~ 240 V AC)
 PAL WV-CW504S (24 V AC or 12 V DC)



### Super Dynamic 5 Vandal Resistant Fixed Dome Camera with ABS (Adaptive Black Stretch), i-VMD (intelligent-Video Motion Detection) and ABF (Auto Back Focus)

#### Key Features

- **Super Dynamic 5** delivers Superior image by fusion of Super Dynamic, ABS (Adaptive Black Stretch) and i-VMD (intelligent-Video Motion Detection) intelligence technology.
- High resolution: 650 TV lines typical (Color mode), 700 TV lines minimum (B/W mode)
- High sensitivity with Day/Night function: 0.1 lux (Color), 0.01 lux (B/W) at F1.4 (Wide). IR cut filter switches on/off to enhance the sensitivity in B/W mode.
- i-VMD (intelligent-Video Motion Detection) including video motion detection, object detection (removal and left behind), scene change detection when lens is covered, spray painted, removed or defocused
- ABF (Auto Back Focus) ensures easy installation and stable focus in both color and B/W modes.
- 3-dimensional color conversion function for natural color reproduction even in lower color temperature situation
- Adaptive Digital Noise Reduction: Integration of 2D-DNR and 3D-DNR ensures noise reduction in various conditions.
- Electronic sensitivity enhancement: Auto (Up to 32x) / Manual (Up to 32x)
- Electronic shutter from 1/100 (NTSC), 1/120 (PAL) to 1/10,000 sec.
- 3.8 ~ 8.0 mm, 2x Varifocal Auto Iris lens with 2x digital zoom
- Auto Image Stabilizer for applications where vibration or wind is a concern
- Internal / Line-lock / Multiplexed Vertical Drive (VD2) synchronization
- Over the coaxial cable data communication
- 16 alphanumeric camera title display
- Multi language: English, French, Italian, Spanish, German, Russian, Japanese
- 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

- Monitor output for easier installation
- 3-way hinge (horizontal, vertical and swivel rotation) for easy installation
- 2 pcs. mounting bracket structure for easy cable connection
- Various mounting options: Flush mount (F type), Surface mount (S type), Embedded ceiling mount (with optional WV-Q169)
- Optional heater maintains operating temperature  $-30^{\circ}\text{C} \sim +50^{\circ}\text{C}$  ( $-22^{\circ}\text{F} \sim 122^{\circ}\text{F}$ )

#### Standard Accessories

<ul style="list-style-type: none"> <li>• CD-ROM (including Operating Instructions) ... 1 pc.</li> <li>• Installation Guide ..... 1 pc.</li> <li>• Camera Mount Bracket (for WV-CW504S/CW500S) ..... 1 pc.</li> </ul>	<ul style="list-style-type: none"> <li>• Fixing Screws for Camera Mount Bracket (M4 x 8) (for WV-CW504S/CW500S) ..... 5 pcs.</li> <li>• Camera Attachment ..... 1 pc.</li> <li>• Bit for Tamperproof Screw ..... 1 pc.</li> <li>• Butyl Tape ..... 1 pc.</li> </ul>
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#### Optional Accessories

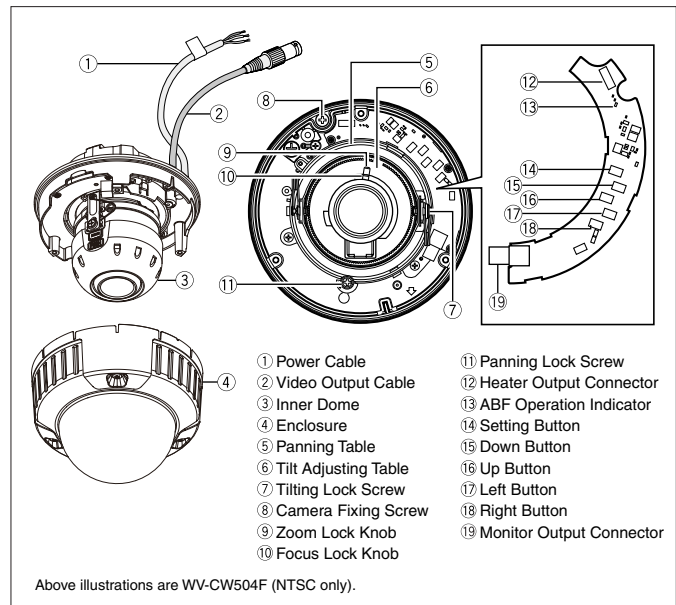
<p>Mount Bracket for WV-CW504F <b>WV-Q115</b></p> 	<p>Heater Unit <b>WV-CW5H</b></p> 
<p>Embedded Ceiling Mount Bracket <b>WV-Q169</b></p> 	<p>Smoke Dome Cover <b>WV-CW4S</b></p> 

## Specifications

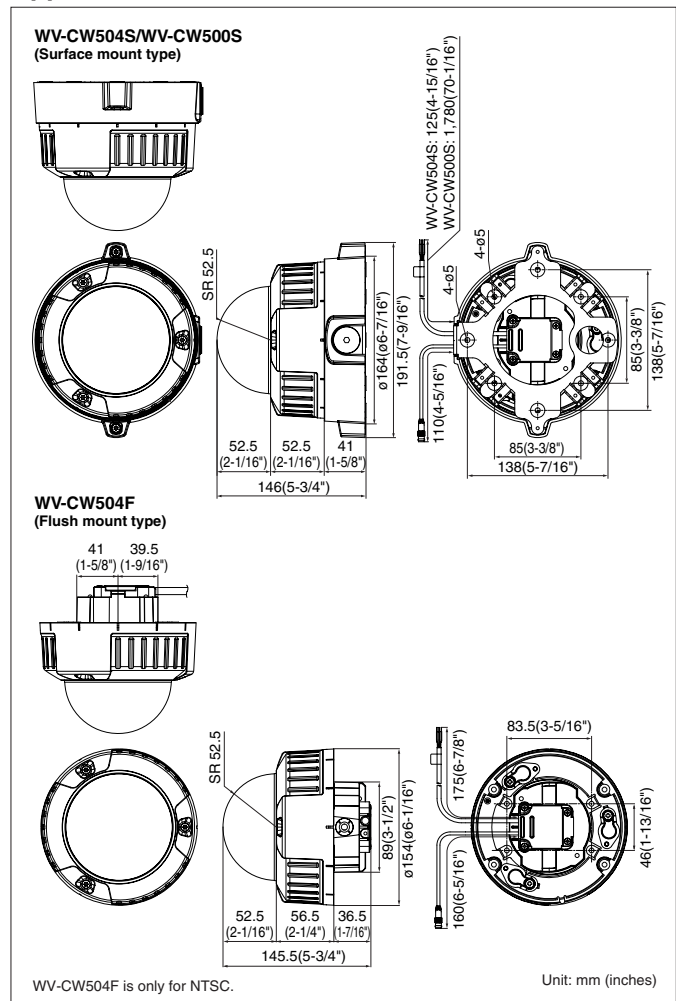
TV System	NTSC	PAL
<b>Type</b>	WV-CW504S: Surface mount type WV-CW504F: Flush mount type	WV-CW500S: Surface mount type
<b>Camera</b>	Image Sensor: 1/3 inch interline transfer CCD Effective Pixels: 976 (H) x 494 (V) Scanning Mode: 2:1 interlace scan Scanning Area: 4.8 (H) x 3.6 (V) mm Scanning Frequency: Horizontal: 15.734 kHz Vertical: 59.94 Hz	976 (H) x 582 (V) Horizontal: 15.625 kHz Vertical: 50 Hz
Scanning Line	525 lines	625 lines
Horizontal Resolution	650 TV lines typical at color mode, 700 TV lines at B/W mode	
Minimum Illumination *1	Color: 0.1 lux (SENS UP: OFF), 0.003 lux*2 (SENS UP: 32x) at F1.4 B/W: 0.01 lux (SENS UP: OFF), 0.0003 lux*2 (SENS UP: 32x) at F1.4	
Signal-to-Noise Ratio	50 dB (AGC Off, Weight On)	
White Balance	ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K), or AWC (2,000 ~ 10,000 K)	
Light Control	ALC / ALC+	
AGC	ON (HIGH / MID / LOW) / OFF	
Super Dynamic 5	ON / ON (i-VMD) / OFF (with BLC masking 8 x 6 areas)	
Dynamic Range	52 dB typical (Super Dynamic 5 ON) / 54 dB typical (Super Dynamic 5 ON)	
Electronic Shutter	OFF (1/60), 1/100, 1/250, 1/500, OFF (1/50), 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 s / 1/1,000, 1/2,000, 1/4,000, 1/10,000 s	
Electronic Sensitivity UP	OFF / AUTO (2x, 4x, 6x, 10x, 16x, 32x) / FIX (2x, 4x, 6x, 10x, 16x, 32x)	
Digital Noise Reduction	High / Low	
Black and White Mode	Mode: AUTO1 / AUTO2 / ON / OFF	
Digital Zoom	ON (up to 2x) / OFF	
Scene File	2 patterns	
i-VMD (intelligent-Video Motion Detection)	Video Motion Detection, Object Detection (Removal and Left Behind), Scene Change Detection	
Privacy Zone	ON (Gray / Mosaic) or OFF	
Auto Image Stabilizer	ON / OFF	
Camera Title	Up to 16 characters	
Lens Mount	CS-mount	
Back Focus Adjustment	ABF (AUTO / PRESET / FIX), MANUAL-ADJ	
Synchronization	Internal (INT), Multiplexed Vertical Drive (VD2), Line-Lock (LL)	
<b>Lens</b>	Focal Length: 3.8 ~ 8.0 mm, 2x varifocal Angular Field of View: H: 35.6° (Tele) ~ 73.6° (Wide) V: 26.6° (Tele) ~ 53.4° (Wide) Maximum Aperture Ratio: 1 : 1.4 (Wide) ~ 1 : 1.8 (Tele) Focusing Range: 1.2 m (3.9 ft.) ~ ∞ ALC Drive: DC	
<b>Pan and Tilt</b>	Panning Range: ±170° Tilting Range: ±75° Azimuth Range: ±100°	
<b>Input / Output</b>	Video Output: 1.0 V [P-P] / NTSC composite / 75 Ω / BNC Connector / Multiplexed VD2 and control data capable Monitor Output: 1.0 V [P-P] / NTSC composite / 75 Ω / RCA Jack	1.0 V [P-P] / PAL composite / 75 Ω / BNC Connector / Multiplexed VD2 and control data capable 1.0 V [P-P] / PAL composite / 75 Ω / RCA Jack
<b>General</b>	Dehumidification Device: Yes Setup Method: OSD setup menu Language: English, Russian (For setup menu and camera title), German, French, Italian, Spanish (For setup menu), Japanese (Only for camera title. Setup menu is in English.) Safety/EMC Standard: UL (UL60065), FCC (Part15 ClassA), CE (EN60065, EN55022 C-UL (CAN/CSA C22.2 No.60065), ClassB, EN55024), DOC (ICES003 ClassA) Power Source and Power Consumption: 24 V AC 60 Hz, 3.4 W, 14 W*3 / 12 V DC, 280 mA*4 Ambient Operating Temperature: -10 °C ~ +50 °C (14 °F ~ 122 °F) Ambient Operating Humidity: -30 °C ~ +50 °C (-22 °F ~ 122 °F)*3 Water and Dust Resistance: 90 % or less (without condensation) Impact Protection: IP66, IEC60529 measurement standard compatible Dimensions: WV-CW504S: ø164 mm x 146 mm (H), 191.5 mm (W) (Base Cover) WV-CW504F: ø154(ø6-1/16") x 5-3/4" (H), 7-9/16" (W) (Base Cover) WV-CW504F: ø154 mm x 145.5 mm (H) (ø6-1/16" x 5-3/4"(H)) WV-CW500S: ø164 mm x 146 mm (H), 191.5 mm (W) (Base Cover) (ø6-7/16" x 5-3/4" (H), 7-9/16" (W) (Base Cover)) Weight (approx.): WV-CW504S: 1.70 kg (3.74 lbs.) WV-CW504F: 1.35 kg (2.97 lbs.) WV-CW500S: 1.85 kg (4.07 lbs.)	

\*1 With standard Clear Dome Cover \*2 Estimated figure \*3 With optional Heater Unit WV-CW5H  
\*4 Optional Heater Unit WV-CW5H cannot be used under 12 V DC operation

## Part Names and Functions



## Appearance



### Trademarks and registered trademarks

– "Super Dynamic", "SDII", "SDIII", "SD5", "SD5Link" and "i-Pro" logos are trademarks or registered trademarks of Panasonic Corporation.

### Important

– Safety Precaution: carefully read the operating instructions and installation manual before using this product.

- All TV pictures are simulated.
- Weights 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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