Panasonic
ideas for life

Super Dynamic 5
Vandal Resistant Fixed Dome Camera
WV-CW500 Series

NTSC **WV-CW504S** (24 V AC or 12 V DC)   PAL **WV-CW500S** (220 ~ 240 V AC)
WV-CW504F (24 V AC or 12 V DC)   **WV-CW504S** (24 V AC or 12 V DC)

(Flush Mount Type)   (Surface Mount Type)

SD5
Super Dynamic

IP66 standard | i-VMD | Auto Back Focus | day/night IR removable

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 alphanumerics 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 °C ~ +50 °C (–22 °F ~ 122 °F)

Standard Accessories

• CD-ROM (including Operating Instructions) ... 1 pc.	• Fixing Screws for Camera Mount Bracket (M4 x 8) (for WV-CW504S/CW500S) .... 5 pcs.
• Installation Guide .... 1 pc.	• Camera Attachment .... 1 pc.
• Camera Mount Bracket (for WV-CW504S/CW500S) .... 1 pc.	• Bit for Tamperproof Screw .... 1 pc.
	• Butyl Tape .... 1 pc.

Optional Accessories

Mount Bracket for WV-CW504F **WV-Q115**	Heater Unit **WV-CW5H**
Embedded Ceiling Mount Bracket **WV-Q169**	Smoke Dome Cover **WV-CW4S**

Specifications

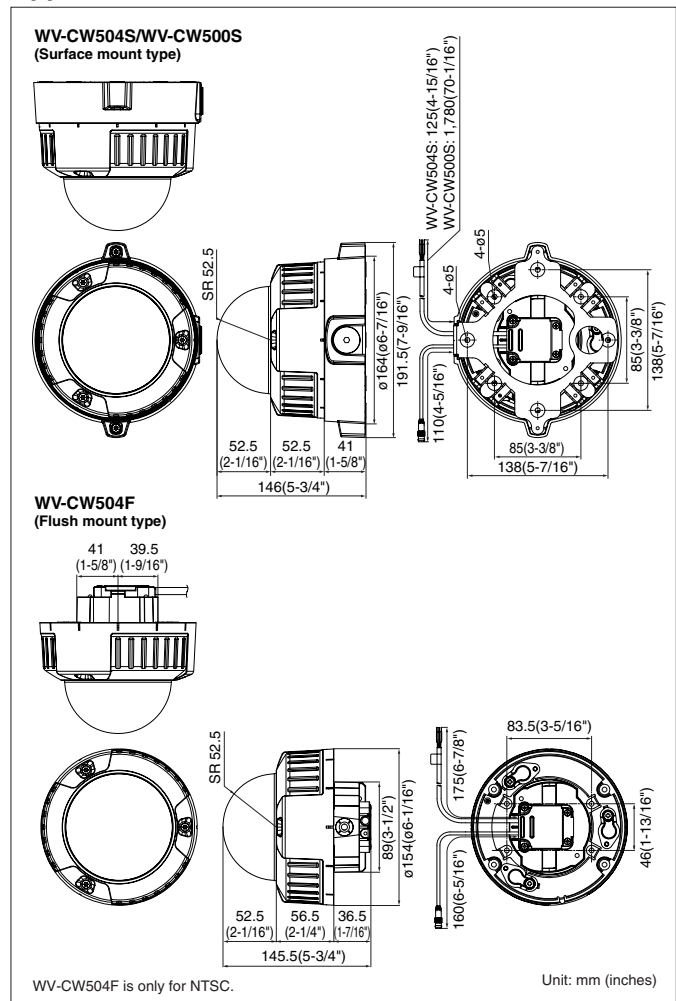| TV System		NTSC	PAL
Type		WV-CW504S: Surface mount type	
		WV-CW504F: Flush mount type	WV-CW500S: Surface mount type
Camera	Image Sensor	1/3 inch interline transfer CCD	
	Effective Pixels	976 (H) x 494 (V)	976 (H) x 582 (V)
	Scanning Mode	2:1 interlace scan	
	Scanning Area	4.8 (H) x 3.6 (V) mm	
	Scanning Frequency	Horizontal: 15.734 kHz	Horizontal: 15.625 kHz
		Vertical: 59.94 Hz	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, 1/1,000, 1/2,000, 1/4,000, 1/10,000 s	OFF (1/50), 1/120, 1/250, 1/500, 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)	
Lens	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	
Pan and Tilt	Panning Range	±170°	
	Tilting Range	±75°	
	Azimuth Range	±100°	
Input / Output	Video Output	1.0 V [P-P] / NTSC composite 75 Ω / BNC Connector Multiplexed VD2 and control data capable	1.0 V [P-P] / PAL 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 / RCA Jack
General	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), C-UL (CAN/CSA C22.2 No.60065), DOC (ICES003 ClassA)	CE (EN60065, EN55022 ClassB, EN55024)
	Power Source and Power Consumption	24 V AC 60 Hz, 3.4 W, 14 W*3 12 V DC, 280 mA*4	WV-CW500S: 220 ~ 240 V AC 50 Hz, 5.1 W, 16 W*3 WV-CW504S: 24 V AC 50 Hz, 3.4 W, 14 W*3 12 V DC, 280 mA*4
	Ambient Operating Temperature	−10 °C ~ +50 °C (14 °F ~ 122 °F) −30 °C ~ +50 °C (−22 °F ~ 122 °F)*3	
	Ambient Operating Humidity	90 % or less (without condensation)	
	Water and Dust Resistance	IP66, IEC60529 measurement standard compatible	
	Impact Protection	IEC 60068-2-75 test Eh, 50J	
	Dimensions	WV-CW504S: 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))	
		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
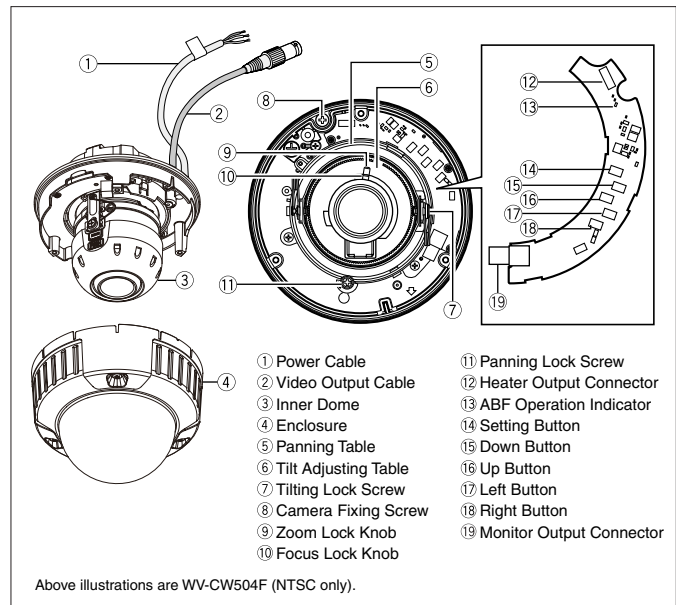
Above illustrations are WV-CW504F (NTSC only).

① Power Cable
② Video Output Cable
③ Inner Dome
④ Enclosure
⑤ Panning Table
⑥ Tilt Adjusting Table
⑦ Tilting Lock Screw
⑧ Camera Fixing Screw
⑨ Zoom Lock Knob
⑩ Focus Lock Knob
⑪ Panning Lock Screw
⑫ Heater Output Connector
⑬ ABF Operation Indicator
⑭ Setting Button
⑮ Down Button
⑯ Up Button
⑰ Left Button
⑱ Right Button
⑲ Monitor Output Connector

Appearance

WV-CW504S/WV-CW500S
(Surface mount type)

WV-CW504F
(Flush mount type)

WV-CW504F is only for NTSC.

Unit: mm (inches)

- 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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