

NTSC **WV-CW504S** (24 V AC or 12 V DC) <Smoke Dome Type>
PAL **WV-CW500S** (220 ~ 240 V AC) <Clear Dome Type>
WV-CW504F (24 V AC or 12 V DC) <Smoke Dome Type>
WV-CW504S (24 V AC or 12 V DC) <Clear Dome Type>

Preliminary



(Flush Mount Type)

(Surface Mount Type)

IP66
 standard



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) compensation technology.
- High resolution: 650 TV lines typical (Color mode), 700 TV lines minimum (B/W mode)
- High sensitivity with Day/Night function: 0.3 lux (Color), 0.04 lux (B/W) with clear dome cover 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

- | | |
|---|--|
| • CD-ROM (including Operating Instructions) ... 1 pc. | • Screws for mounting bracket (M4 x 8) (for WV-CW504S/CW500S) 5 pcs. |
| • Operating Instructions 1 pc. | • Camera attachment 1 pc. |
| • Mounting 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	Clear Dome Cover WV-CW4C (NTSC only)	Smoke Dome Cover WV-CW4S (PAL only)
		

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 interface scan		
	Scanning Area	4.8 (H) x 3.6 (V) mm		
	Scanning Frequency	Horizontal: 15.734 kHz Vertical: 59.94 Hz	Horizontal: 15.625 kHz Vertical: 50 Hz	
		625 lines	625 lines	
	Horizontal Resolution	650 TV lines typical at color mode, 700 TV lines at B/W mode		
	Minimum Illumination	Color: 0.6 lux (SENS UP: OFF), 0.02 lux* (SENS UP: 32x) at F1.4 B/W: 0.08 lux (SENS UP: OFF), 0.003 lux* (SENS UP: 32x) at F1.4	Color: 0.3 lux (SENS UP: OFF), 0.01 lux* (SENS UP: 32x) at F1.4 B/W: 0.04 lux (SENS UP: OFF), 0.0015 lux* (SENS UP: 32x) at F1.4	
		Will be same as PAL spec. with WV-CW4C optional clear dome cover		
	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), or 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	
		OFF / AUTO (2x, 4x, 6x, 10x, 16x, 32x) / FIX (2x, 4x, 6x, 10x, 16x, 32x)		
	Electronic Sensitivity UP	OFF / AUTO (2x, 4x, 6x, 10x, 16x, 32x) / FIX (2x, 4x, 6x, 10x, 16x, 32x)		
	Digital Noise Reduction	Low / High		
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), GOST (GOST R 51558)	
		Power Source and Power Consumption	24 V AC 60 Hz, 3.4 W, 11 W** 12 V DC, 280 mA***	WV-CW500S: 220 ~ 240 V AC 50 Hz, 5.1 W, 12 W** WV-CW504S: 24 V AC 50 Hz, 3.4 W, 11 W** 12 V DC, 280 mA***
	Ambient Operating Temperature	-10 °C ~ +50 °C (14 °F ~ 122 °F) -30 °C ~ +50 °C (-22 °F ~ 122 °F)**		
	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.)	

* Estimated figure ** With optional Heater Unit WV-CW5H

*** Optional Heater Unit WV-CW5H cannot be used under 12 V DC operation

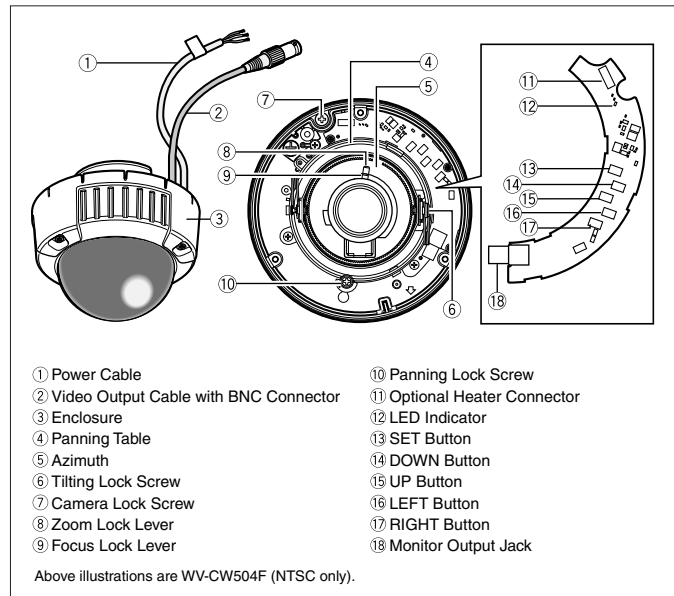
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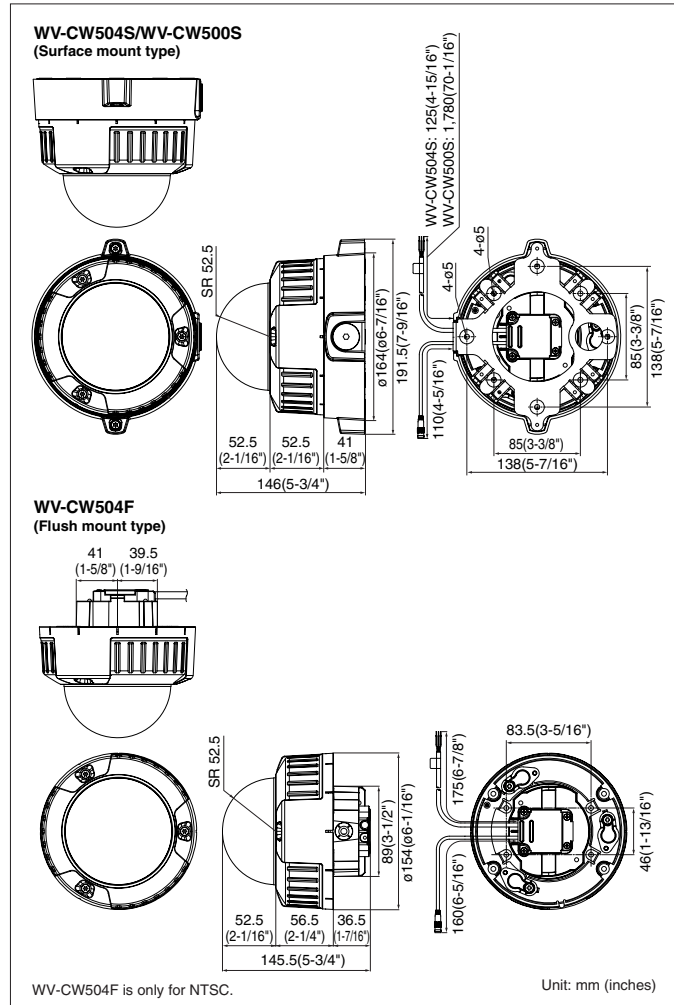
Important

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

Part Names and Functions



Appearance



- 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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