Panasonic
ideas for life

Super Dynamic 5
Day/Night Camera
WV-CP500 Series

NTSC **WV-CP500** (120 V AC)		PAL **WV-CP500** (220 ~ 240 V AC)
WV-CP504 (24 V AC or 12 V DC)		**WV-CP504** (24 V AC or 12 V DC)
		WV-CP500L (220 ~ 240 V AC)
		WV-CP504L (24 V AC or 12 V DC)

Lens: optional

SD5
Super Dynamic

WV-CP504
WV-CP504L

WV-CP500
WV-CP500L

(WV-CP500 Series)   (WV-CP500L Series)

i-VMD   Auto Back Focus   day/night IR removable   day/night

Super Dynamic 5 Day/Night Camera with ABS (Adaptive Black Stretch), i-VMD* (intelligent-Video Motion Detection) and ABF* (Auto Back Focus) * Except for WV-CP500L, WV-CP504L

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) (WV-CP500 Series)
- High resolution: 650 TV lines typical (WV-CP500L Series)
- High sensitivity with Day/Night function: 0.1 lux (Color), 0.01 lux (B/W) at F1.4. IR cut filter switches on/off to enhance the sensitivity in B/W mode. (WV-CP500 Series)
- High sensitivity with Simple Day/Night function: 0.1 lux (Color), 0.07 lux (B/W) at F1.4 (WV-CP500L Series)
- 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.
- Digital zoom: Up to 2x

- Alarm input* and alarm output terminals
- 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

* Except for WV-CP500L, WV-CP504L
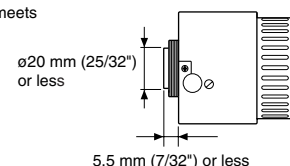
Standard Accessories

• CD-ROM (including Operating Instructions) .... 1 pc.	• Power Cord (for WV-CP500) .... 1 pc.
• Installation Guide .... 1 pc.	• Power Cord Plug (for WV-CP504) ... 1 pc.

Compatible Panasonic lenses

WV-LZA62/2, WV-LZA61/2S, WV-LZ62/8S, WV-LZ61/15

In case of use of other lenses
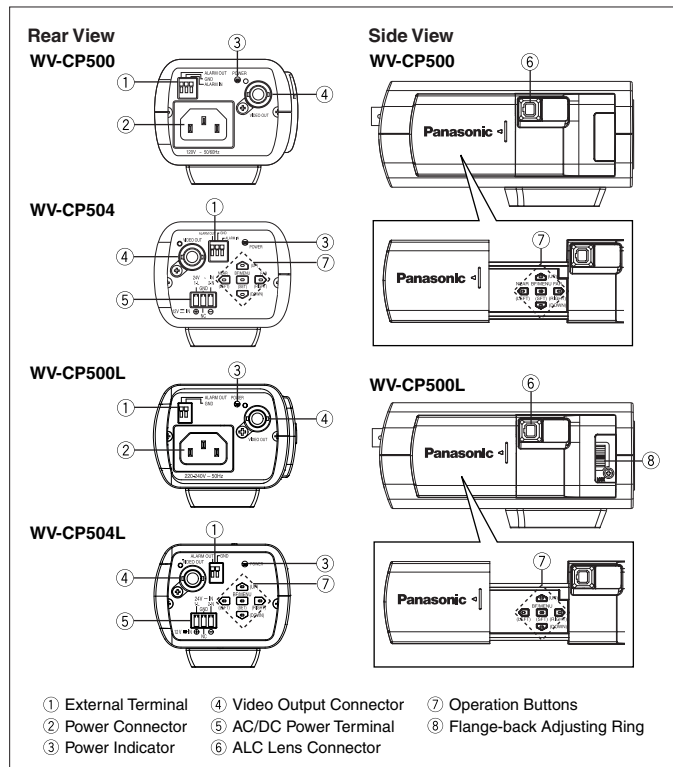
Please select lenses that meets the following:

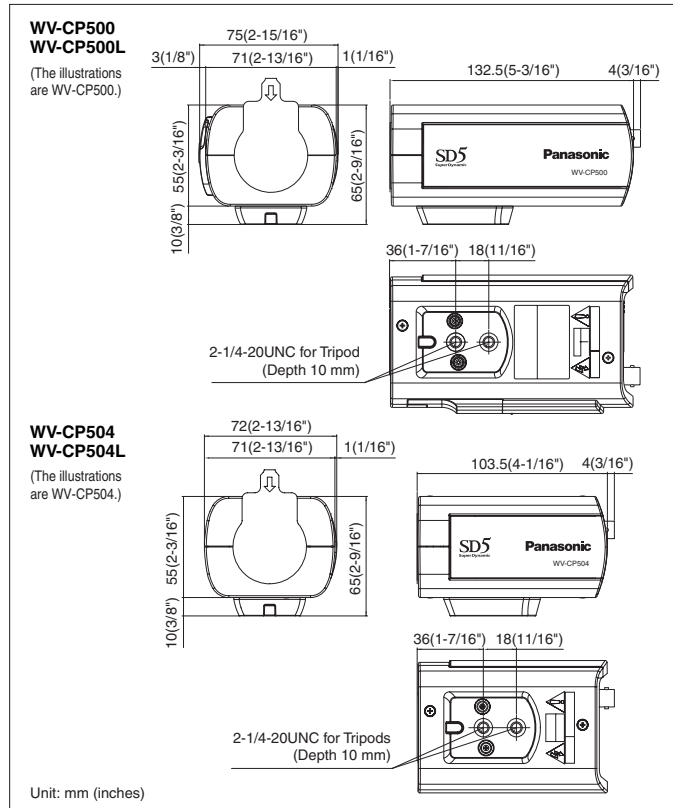ø20 mm (25/32") or less

5.5 mm (7/32") or less

Specifications

TV System		NTSC	PAL
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 Vertical: 59.94 Hz	Horizontal: 15.625 kHz Vertical: 50 Hz
	Scanning Line	525 lines	625 lines
	Horizontal Resolution		
	WV-CP500 Series	650 TV lines typical at color mode, 700 TV lines at B/W mode	
	WV-CP500L Series	650 TV lines typical	
	Minimum Illumination		
	WV-CP500 Series	Color: 0.1 lux (SENS UP: OFF), 0.003 lux* (SENS UP: 32x) at F1.4 B/W: 0.01 lux (SENS UP: OFF), 0.0003 lux* (SENS UP: 32x) at F1.4	
	WV-CP500L Series	Color: 0.1 lux (SENS UP: OFF), 0.003 lux* (SENS UP: 32x) at F1.4 B/W: 0.07 lux (SENS UP: OFF), 0.002 lux* (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+ / ELC	
	AGC	ON (HIGH / MID / LOW) / OFF	
	Super Dynamic 5		
	WV-CP500 Series	ON / ON (i-VMD) / OFF (with BLC masking 8 x 6 areas)	
	WV-CP500L Series	ON / 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 (WV-CP500 Series only)	Mode: AUTO1 / AUTO2 / ON / OFF with external control, Level: High / Low	
	Simple Day/Night Mode (WV-CP500L Series only)	AUTO / OFF	
	Digital Zoom	ON (up to 2x) / OFF	
	Scene File	2 patterns	
	i-VMD (intelligent-Video Motion Detection) (WV-CP500 Series only)	Video Motion Detection Object Detection (Removal and Left Behind) Scene Change Detection	
	Video Motion Detection (WV-CP500L Series only)	Video Motion Detection 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	
	Lens ALC Drive	DC	
	Back Focus Adjustment (WV-CP500 Series only)	ABF (AUTO / PRESET / FIX), MANUAL-ADJ	
	Synchronization	Internal (INT), Multiplexed Vertical Drive (VD2), Line-Lock (LL)	
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
	External I/O Terminals		
	WV-CP500 Series	ALARM IN: 1 (OFF / ALARM / VMD PERMIT / BW / SCENE2) ALARM OUT: 1 (OFF / ALARM / BW)	
	WV-CP500L Series	ALARM OUT: 1 (OFF / ALARM)	
General	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	WV-CP500: 120 V AC 60 Hz, 3.2 W WV-CP504: 24 V AC 60 Hz, 3.6 W 12 V DC, 310 mA	WV-CP500/WV-CP500L: 220 ~ 240 V AC 50 Hz, 3.7 W WV-CP504/WV-CP504L: 24 V AC 50 Hz, 3.6 W 12 V DC, 310 mA
	Ambient Operating Temperature	−10 °C ~ +50 °C (14 °F ~ 122 °F)	
	Ambient Operating Humidity	90 % or less (without condensation)	
	Dimensions WV-CP500 WV-CP500L	75 mm (W) x 65 mm (H) x 132.5 mm (D) (2-15/16"" (W) x 2-9/16"" (H) x 5-3/16"" (D))	
	WV-CP504 WV-CP504L	72 mm (W) x 65 mm (H) x 103.5 mm (D) (2-13/16"" (W) x 2-9/16"" (H) x 4-1/16"" (D))	
	Weight WV-CP500	430 g (0.95 lbs.) (without power cord)	
	(approx.) WV-CP504	350 g (0.77 lbs.)	
	WV-CP500L	420 g (0.93 lbs.) (without power cord)	
	WV-CP504L	340 g (0.75 lbs.)	

* Estimated figure

Part Names and Functions

Rear View
WV-CP500

WV-CP504

WV-CP500L

WV-CP504L

Side View
WV-CP500

WV-CP500L

① External Terminal
② Power Connector
③ Power Indicator
④ Video Output Connector
⑤ AC/DC Power Terminal
⑥ ALC Lens Connector
⑦ Operation Buttons
⑧ Flange-back Adjusting Ring

Appearance

WV-CP500
WV-CP500L
(The illustrations are WV-CP500.)

75(2-15/16")   3(1/8")   71(2-13/16")   1(1/16")   132.5(5-3/16")   4(3/16")
10(3/8")   55(2-3/16")   65(2-9/16")
SD5   Panasonic   WV-CP500
36(1-7/16")   18(11/16")
2-1/4-20UNC for Tripod (Depth 10 mm)

WV-CP504
WV-CP504L
(The illustrations are WV-CP504.)

72(2-13/16")   71(2-13/16")   1(1/16")   103.5(4-1/16")   4(3/16")
10(3/8")   55(2-3/16")   65(2-9/16")
SD5   Panasonic   WV-CP504
36(1-7/16")   18(11/16")
2-1/4-20UNC for Tripods (Depth 10 mm)

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.

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.