

NTSC WV-CL930 (120 V AC)
WV-CL934 (24 V AC or 12 V DC)

PAL WV-CL930 (220 ~ 240 V AC)
WV-CL934 (24 V AC or 12 V DC)
WV-CLR930 (220 ~ 240 V AC, with RS-485 control IF)
WV-CLR934 (24 V AC or 12 V DC, with RS-485 control IF)

Lens: optional



Ultra high sensitivity Day/Night Camera with ABF (Auto Back Focus) for 24 hours a day surveillance

Key Features

- 1/2 inch CCD delivers high sensitivity high quality picture.
- High resolution: 540 TV lines typical / 520 TV lines minimum (Color HIGH mode), 480 TV lines minimum (Color NORMAL mode), 570 TV lines minimum (B/W mode)
- Ultra high sensitivity with Day/Night function: 0.09 lux (Color), 0.008 lux (B/W) at F1.4. IR cut filter switches on and off, and ABF (Auto Back Focus) re-adjusts back focus upon color/BW switching to ensure picture quality of both color and B/W.
- ABF (Auto Back Focus) allows easy installation and stable focus in both color and B/W modes.
- Adaptive Digital Noise Reduction: 2D-DNR and 3D-DNR integration ensures reduced noise in various conditions.
- Peak mode enables appropriate light control to represent sharp bright object.
- BLC (Back Light Compensation): Preset/Manual (Mask 8 x 6) with Peak mode and level control
- Electronic sensitivity enhancement: Auto (Up to 32x) / Manual (Up to 128x)
- Electronic shutter from 1/100 (NTSC), 1/120 (PAL) to 1/10,000 sec.
- Video Motion Detector with Sensitivity 256 steps, Mask 8 x 6 areas
- Scene Change Detection alarms when lens is covered, spray painted, removed or defocused.
- Day/Night input and alarm output terminals
- Auto image stabilizer for applications where vibration or wind is a concern.

- Function command: Various functions such as shutter speed, sensitivity enhancement level can be controlled precisely by function number with Panasonic controller.
- Internal / Line-lock / Gen-Lock (VBS/VS) / Multiplexed Vertical Drive (VD2) synchronization
- Over the coaxial cable or RS-485 data communication (CLR model)
- 16 alphanumeric camera title display
- Multi language setup menu: English, French, Italian, Spanish, German, Russian

Standard Accessories

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|--|---|
| • Operating Instructions 1 pc. | • AC Power Cord (for WV-CL930) ... 1 pc. |
| • ALC Lens Connector (YFE4191J100) 1 pc. | • C-mount adapter (NTSC only) 1 pc. |

Optional Accessories

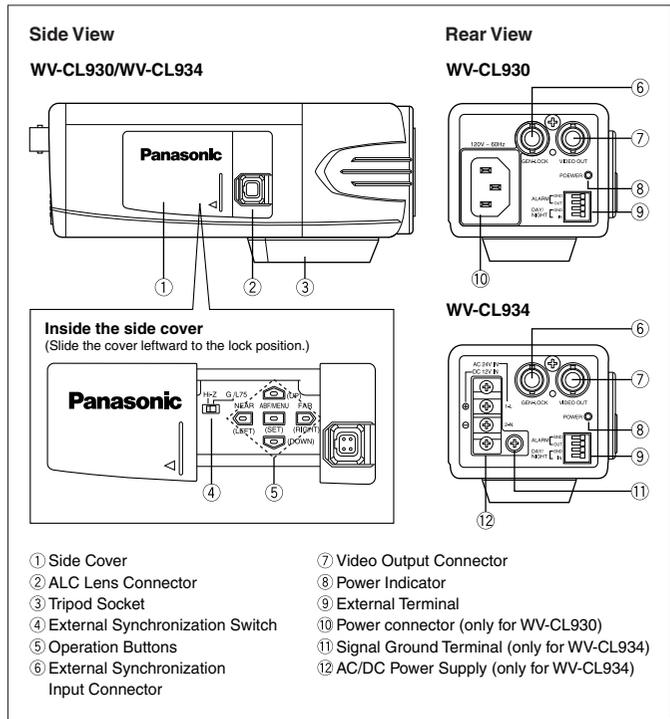
<p>1/2 inch 8.5 ~ 51 mm Zoom Auto Iris Lens WV-LZ81/6A (NTSC) WV-LZ81/6 (PAL) (F1.2)</p> 	<p>1/2 inch 8 ~ 80 mm Zoom Auto Iris Lens WV-LZ81/10 (F1.4)</p> 	<p>1/2 inch 6 ~ 12 mm Varifocal Auto Iris Lens WV-LZ80/2 (F1.4)</p> 
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Specifications

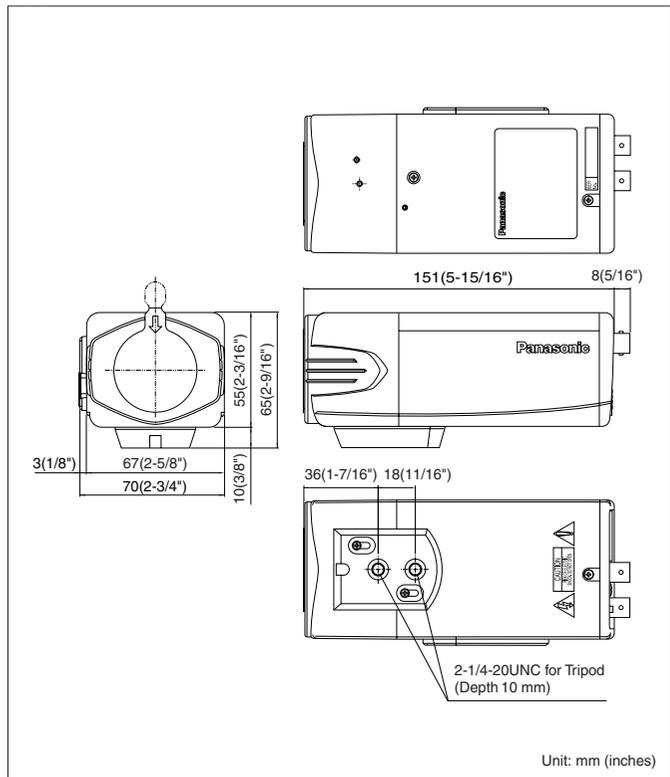
TV System	NTSC	PAL
Camera	1/2 inch interline transfer CCD	
Effective Pixels	768 (H) x 494 (V)	752 (H) x 582 (V)
Scanning Mode	2:1 interlace scan	
Scanning Area	6.4 (H) x 4.8 (V) mm	
Scanning Frequency	Horizontal: 15.734 kHz Vertical: 59.94 Hz	Horizontal: 15.625 kHz Vertical: 50.00 Hz
Scanning Line	525 lines	
Horizontal Resolution	540 TV lines typical at color high mode, 480 TV lines at color normal mode, 570 TV lines at B/W mode	
Minimum Illumination	Color (30 IRE): 0.09 lux (SENS UP: OFF), 0.003 lux* (SENS UP: 32x) at F1.4 B/W (10 IRE): 0.008 lux (SENS UP: OFF), 0.0003 lux* (SENS UP: 32x) at F1.4	
Signal-to-Noise Ratio	50 dB (AGC Off, Weight On)	
White Balance	ATW1, ATW2, or AWC	
Light Control	ALC / ALC + (Integration of ALC and ELC) / ELC with Peak mode	
AGC	ON (adjustable), or OFF	
Back Light Compensation	Preset/Manual (Mask 8 x 6) with Peak mode and level control	
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, 64x, 128x)	
Digital Noise Reduction	High / Mid / Low	
Resolution Mode	Normal / High	
Black and White Mode	Mode: AUTO1 / AUTO2 / ON / OFF, Level: High / Low, with external control	
Video Motion Detection	OFF / Mode1 (VMD) / Mode2 (Scene change), Sensitivity 256 steps, Mask 8 x 6 areas	
Scene Change Detection	Yes, included in VMD Mode2	
Privacy Zone	ON (Gray/Mosaic) or OFF	
Auto Image Stabilizer	ON / OFF	
Mirror	ON / OFF	
Camera Title	Up to 16 characters	
Lens Mount	CS-mount	
Lens ALC Drive	DC / Video	
Back Focus Adjustment	ABF, MANUAL, AUTO / PRESET / FIX	
Synchronization	Internal (INT), Multiplexed Vertical Drive (VD2), Line-Lock (LL), External (VBS/VS)	
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 Sync Input: Gen-Lock input	
	RS-485 Control IF: CLR model only	
	External I/O Terminals: Alarm output, Day/Night input	
General	Setup Method: OSD setup menu	
Language	English, Russian (For setup menu and camera ID), German, French, Italian, Spanish (For setup menu), Japanese (For camera title. Setup menu will be English.)	
Safety/EMC Standard	UL (6500 Edition2), FCC (Part15 ClassA), C-UL (E60065), DOC (ICES003 ClassA)	
Power Source and Power Consumption	WV-CL930: 120 V AC 60 Hz: 4.6 W WV-CL934: 24 V AC 60 Hz: 4.0 W 12 V DC 350 mA	WV-CL930 / WV-CLR930: 220 - 240 V AC 50 Hz: 4.7 W WV-CL934 / WV-CLR934: 24 V AC 50 Hz: 4.0 W 12 V DC 340 mA
Ambient Operating Temperature	-10 °C ~ +50 °C (14 °F ~ 122 °F)	
Ambient Operating Humidity	90 % or less (without condensation)	
Dimensions	70 mm (W) x 65 mm (H) x 151 mm (D) (2-3/4" (W) x 2-9/16" (H) x 5-15/16" (D))	
Weight (approx.)	WV-CL930: 570 g (1.25 lbs.) (without power cord) WV-CL934: 560 g (1.23 lbs.)	

* Estimated figure

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.

Important

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

DISTRIBUTED BY:

Panasonic

<http://panasonic.co.jp/pss/cctv/en/>

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