

Panasonic
ideas for life

Weather Proof & Vandal Resistant
Colour Dome Cameras
with Low-Light B/W Mode

WV-CW860A Series



*24-hour outdoor surveillance
with a single unit.*



SDII
Super Dynamic



Introducing a powerful all-in-one dome camera-designed for outdoor installations.

The integrated housing design is perfect for all weather outdoor use. It features colour camera with a 22x zoom lens, high-speed panning table, our exclusive Super Dynamic II technology and day/night operation, crisp clear images with 510 lines of resolution, Pix sens up function delivers black-and-white images in as little as 0.03 lux of light conditions.

The Panasonic weather proof colour dome cameras; WV-CW860A Series are ideal for a variety of applications including outdoor parking lots, theme parks, shopping malls, airports, train stations and highways.



For all-weather outdoor use

Resistant to rain.

The WV-CW860A Series meet the IP66 international standard. The camera can be installed under building eaves, external walls, rooftops and many other locations.



Resistant to temperature changes.

A fan and heater are incorporated in the housing providing an operating temperature range of -30°C to +50°C .

Resistant to direct sunlight.

The optional Sun Shield WV-7176 is available for locations exposed to direct sunlight.

Super Dynamic II Function

With Super Dynamic II, backlighting is no problem

With a 80 times dynamic range, Panasonic's proprietary Super Dynamic II processing yields clear images even in high-contrast or backlit lighting situations.

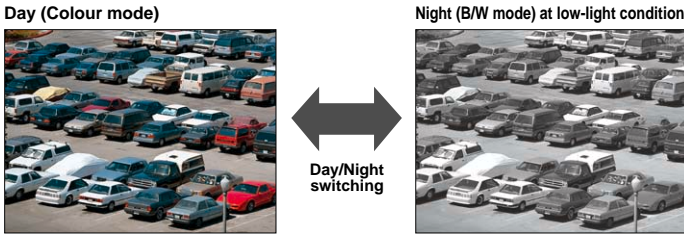


24-hour Surveillance



Automatic selection of colour or B/W modes enables surveillance at night.

When darkness falls, the camera automatically switches from colour mode to B/W mode, increasing sensitivity. Colour mode is automatically restored when daylight arrives, ensuring perfect surveillance for both day and night. The mode selection can be set to either automatic or manual operation.



Minimum illumination is 0.03 lux at B/W imaging. with Pix Sens Up, Sens Up Off (AGC High)

The minimum illumination needed is 1 lux for colour mode and 0.03 lux for B/W mode. A clear surveillance image is assured even under poor lighting conditions.

Powerful specifications ensure high reliability.

High-speed panning at 300 degrees/sec.

The maximum panning speed of 300 degrees/sec quickly captures an object. The range of surveillance is 360 degrees in the horizontal direction (endless panning) and 180 degrees in the vertical direction (one-motion panning).



Return to Pan Function.

Returns back to auto pan after manual pan is completed.

Maximum 64 preset positions.

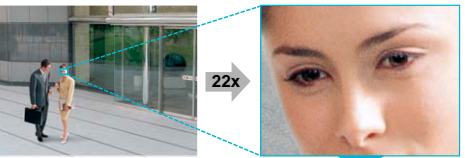
A press of a key on the controller enables the selection of preset positions.

The image hold function eliminates screen blurring.

The image immediately before the position selection is stored and displayed until the selection of preset positions has been completed. The screen blurring that occurs with conventional cameras during panning is eliminated, ensuring clear, well-defined images during monitoring.

220x Zoom magnification.

The combined use of a 22x optical zoom lens and the 10x electronic zooming function provides a maximum magnification of 220x.



Alarm Inputs and Outputs enable the control of external devices.

The output connector features 4 alarm inputs and 2 alarm outputs. Each alarm signal can operate under preset positions and zooming functions. External devices, such as a digital disk recorder and a VTR, can also be controlled for recording.

Ready for use with a single coaxial cable and RS-485.

Video image signals, control data, synchronization signals (VD2), and alarm signals can be transmitted with one coaxial cable. The cable can be extended up to 1,200 m. In addition, RS-485 data communication is also possible, enabling use over extended distances and for the expansion of system devices.

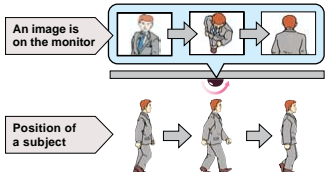
Versatile functions designed for user-friendliness.

Horizontal resolution of 510 lines (High) for colour imaging.

The employment of a 752 (H) x 582 (V) mm, 1/4-type CCD enables high picture quality with extended specifications.

Digital Flip Function.

The top and the bottom of the image can be reversed through digital processing when the camera pans 135 degrees in the vertical direction. Since the camera continues to pan to 180 degrees, an object passing directly under the camera can be tracked continuously.



Privacy Zone Masking Function.

Any portion of the surveillance image can be masked on the screen, preventing any infringement of privacy.



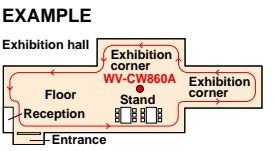
Motion Detector Function.

The motion detector output sends alarm signals to external devices when movement is detected within a surveillance area. Connections to a recording system (VTR, DVR), are also possible.



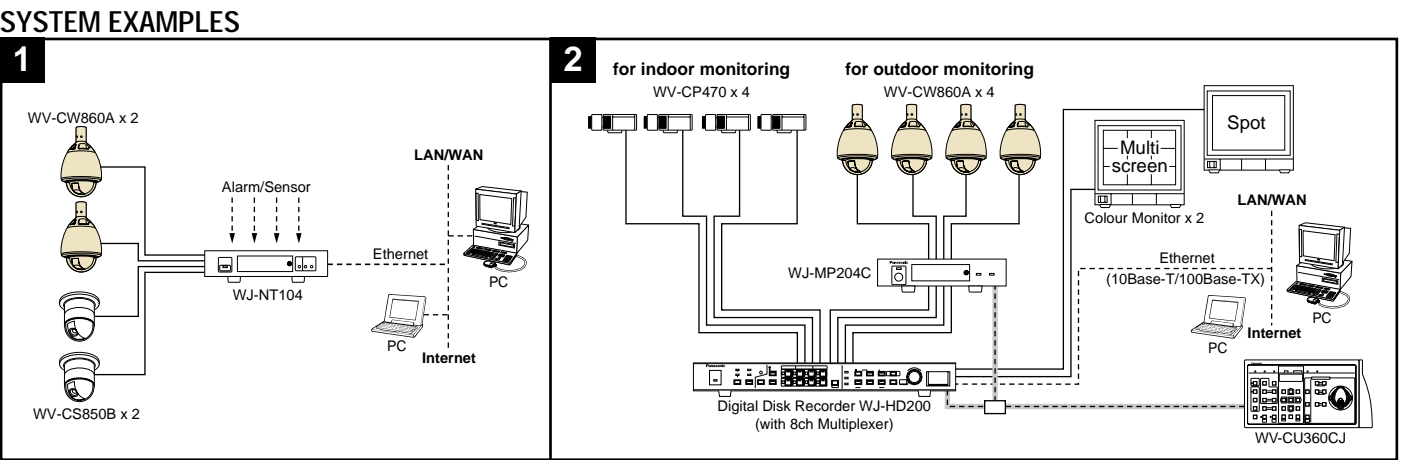
Patrol Learn Function Stores/ Reproduces Manual Operations.

Camera operations, such as panning or zooming, that were once manually performed can be reproduced at the flip of a switch.










Camera IDs can be displayed using characters.

Up to 16 characters and symbols can be displayed on the monitor.



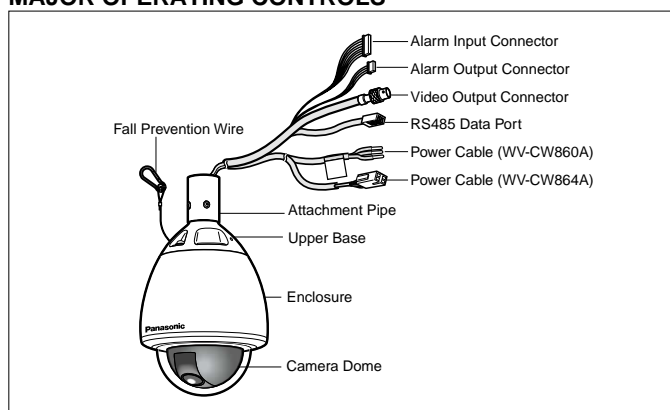
OPTIONAL COMPONENTS

Digital Disk Recorder Digital Disk Recorder with 8ch Multiplexer WJ-HD200 PS•Data 	Colour Multiplexers Digital Video Duplex Colour Multiplexers WJ-FS416 (16ch) PS•Data WJ-FS409 (9ch) PS•Data 	Quad Unit Colour Quad Unit WJ-MS424 	
Surveillance Control Systems SYSTEM850 	SYSTEM500 	SYSTEM150 	Data Multiplex Unit WJ-MP204C PS•Data System Controller WV-CU360CJ PS•Data 

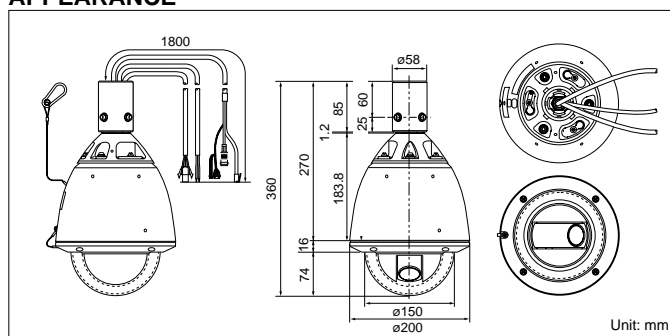
SPECIFICATIONS PAL CCIR

Model No.	WV-CW860A	WV-CW864A
Effective Pixels	752 (H) x 582 (V)	
Scanning Area	3.65 mm (H) x 2.71 mm (V), 1/4-type CCD	
Synchronization	Internal/Line-lock/Multiplexed Vertical Drive (VD2)	
Horizontal Scanning Frequency	15.625 kHz	
Vertical Scanning Frequency	50 Hz	
Video Output	1.0 V[p-p] PAL composite/75 Ω	
Horizontal Resolution	510 lines at colour (High), 480 lines at colour (Normal), 570 lines at B/W mode	
Signal-to-Noise Ratio	50 dB (AGC Off, weight On)	
Minimum Illumination	1 lux Colour imaging at SENS UP OFF (AGC HIGH) 0.06 lux with Pix SENS UP OFF, B/W imaging, SENS UP OFF (AGC HIGH) 0.03 lux with Pix SENS UP, B/W imaging at SENS UP OFF (AGC HIGH)	
Zoom Speed	approx. 4.5 s (Tele/Wide) in manual mode	
Focus Speed	approx. 5.0 s (Far/Near) in manual mode	
Iris	automatic (open/close is possible)/manual	
Maximum Aperture Ratio	1 : 1.6 (Wide) - 3.0 (Tele)	
Focal Length	3.79 - 83.4 mm	
Angular Field of View	H	2.6° - 52.3°
	V	2.0° - 39.9°
Electronic Shutter	1/50 (Off), 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 s	
AGC Control	On (Low)/On (Mid)/On (High)/Off	
Sensitivity	max. 32 times, Auto/Fix	
Super Dynamic II	selectable (On/Off)	
Zoom Ratio	x22 plus digital zoom x10	
Iris Range	F1.6 - 22, close	
Auto Focus	Manual/Auto	
Auto Mode	Off/Seq/Sort/Auto Pan/Patrol	
Auto Pan Key	Seq/Sort/Auto Pan/Patrol Play	
Digital Flip	On/Off	
Camera ID	preset ID, camera ID, area title : up to 16 characters	
Motion Detector	On/Off	
Alarm In	4 inputs (Alarm IN 1-4)	
Alarm Out	2 outputs (Alarm/Aux1, B/W/Aux2)	
B/W Mode	Auto/On/Off	
Privacy Zone	On/Off, up to 8 zones	
Proportional Pan/Tilt	On/Off	
Patrol Learn	Learn/Play/Stop, up to 30 seconds	
Cleaning	On/Off	
Imaging Hold	On/Off	
Panning Range	360° endless	
Panning Angle Setting	possible (in auto-pan mode)	
Panning Mode	manual/sequential position/sort position/auto pan	
Panning Speed	manual : approx. 0.1°/s - 120°/s 8-steps/64-steps sequence position : maximum approx. 300°/s	
Tilting Range	0° to 180° (-5° to 185° at 5° tilt angle setting)	
Tilting Mode	manual/sequential position/sort position	
Tilting Speed	manual : approx. 0.1°/s - 120°/s 8-steps/64-steps sequential position : maximum approx. 300°/s	
Power Source	220 V-240 V, 50 Hz	24 V AC, 50 Hz
Power Consumption	18 W (61 W at Heater On)	18 W (59 W at Heater On)
Ambient Operating Temperature	-30°C ~ +50°C (at continuous operation mode)	
Dimensions	ø200 (D) x 360 (H) mm	
Weight	approx. 5 kg	

MAJOR OPERATING CONTROLS



APPEARANCE



OPTIONAL ACCESSORIES

Sun shield WV-7176 The sun shield; WV-7176 screens the WV-CW860A Series, from the direct sunlight. 	Wall mount bracket WV-Q110 This bracket; WV-Q110 is used for mounting the WV-CW860A Series onto a wall. 
SPECIFICATIONS Dimensions ø230(W) x 194(H) mm Weight(approx.) 450 g	SPECIFICATIONS Dimensions ø111.5(W) x 210.5(H) x 269(D) mm Weight(approx.) 2 kg

• 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.

DISTRIBUTED BY:

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Panasonic

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