



Better Image Quality and 2x Variable-Focal Lens. The Advanced WV-CF224EX Mini Dome Camera, an EXcellent Performer.

The new WV-CF224EX Color Dome Camera from Panasonic is equipped with a 380,000 pixel, 1/4-type CCD and can be used with both AC and DC power sources. In addition to 480 TV lines horizontal resolution, it can operate effectively in lighting as low as 1.6 lux (0.16 fc) with an aperture setting of F1.4. A full range of correction features including Backlight Compensation (BLC), Aperture Correction, and Auto Tracing White Balance (ATW) ensure crisp color images in dark or backlit environments. The 2.8mm to 6.0mm variable-focal auto iris lens* is standard, allowing for easy installation and camera angle adjustment.

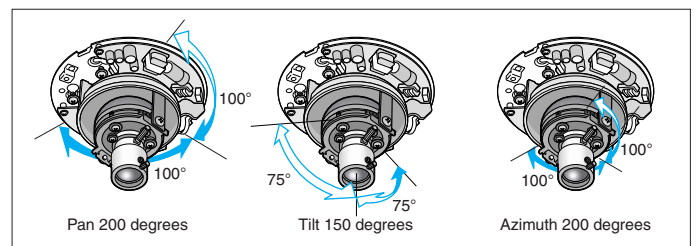
When used with a 24-volt AC power source, it simultaneously supports Internal, Line-Lock, and VD2 synchronization, making it simple to configure a reliable, multi-channel camera system.

Great features, simple operation, system flexibility and economical, the WV-CF224EX is an "EXcellent" surveillance solution for a wide range of applications.

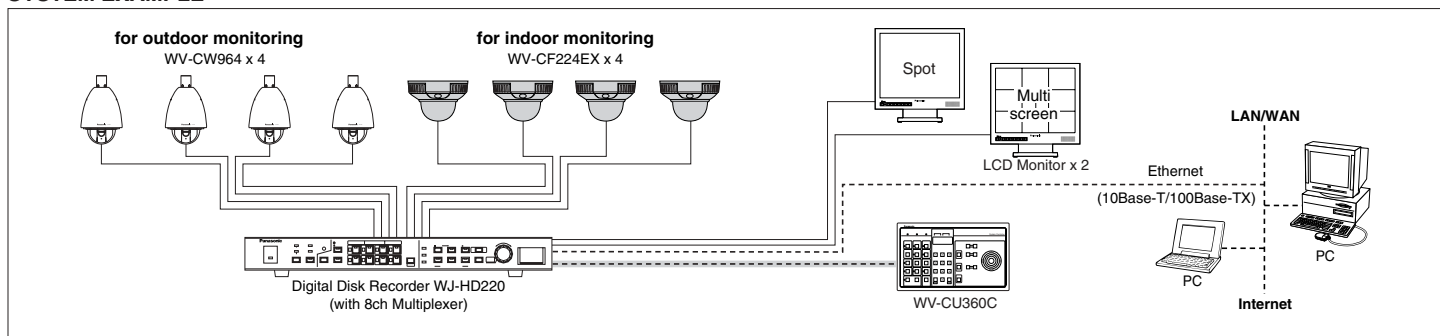
*Lens is non-exchangeable.

KEY FEATURES

- 135mm (5-5/16") diameter compact color dome camera for indoor use.
- 480 TV lines horizontal resolution.
- Minimum illumination of 1.6 lux (0.16 fc).
- 50dB signal to noise ratio.
- Built-in 2x variable-focal lens (2.8-6.0mm) with auto iris.
- Built-in aperture level (sharp/soft) correction.
- Advanced digital adaptive Back-Light Compensation (BLC) capability.
- Internal/Line-lock/VD2 synchronization (Line-lock : 24V AC operation only).
- Vertical drive (VD2) sync capability with Panasonic system products.
- Video monitor output jack provides "on the spot" checking of lens angle setting.
- Can be installed in standard electric junction box.
- 24V AC/12V DC compatible power source operation to suit a wide variety of applications.
- 3-dimensional hinge (Pan, Tilt and Azimuth) allows the camera to be rotated as well as moved horizontally and vertically. Select the precise camera angle you need. No camera makes it easier.



SYSTEM EXAMPLE



OPTIONAL COMPONENTS

<p>Digital Disk Recorders</p> <p>WJ-HD220 (8ch)</p> 	<p>WJ-HD316A (16ch)</p> <p>WJ-HD309A (9ch)</p> 
<p>System Controllers</p> <p>WV-CU650</p>  <p>WV-CU360C</p> 	<p>LCD AV Monitors</p> <p>WV-LC1710 43.2cm (17")</p> <p>WV-LD2000 50.8cm (20")</p> <p>WV-LD1500 38.1cm (15")</p> 

MAJOR OPERATING CONTROLS

The diagram shows the rear panel of the camera with numbered callouts 1 through 11. The front view shows the lens and panel cover. The controls are:

- 1 Camera Panel
- 2 Pan/Tilt/Azimuth Table
- 3 Focus Lever
- 4 Zoom Lever
- 5 Video Jack (3.5-diam. mini jack)
- 6 Video Output Connector
- 7 Power Cable
- 8 Aperture Level Selector
- 9 Back Light Compensation Selector
- 10 Synchronization Mode Selector
- 11 Panel Cover

SPECIFICATIONS

Pick-up Device	768 (H) x 494 (V) pixels, interline transfer CCD
Scanning Area	3.6 (H) x 2.7 (V) mm (equivalent to scanning area of 1/4" pick-up tube)
Synchronization	Internal, Line-lock (24 V AC only) or multiplexed vertical drive (VD2)
Scanning System	2 : 1 interlace
Scanning	525 lines / 60 fields / 30 frames
Horizontal	15.734 kHz
Vertical	59.94 Hz
Horizontal Resolution	480 TV lines
Video Output	1.0 V [p-p] NTSC composite 75 Ω
Automatic Gain Control (AGC)	+18 dB
Automatic Tracing White Balance (ATW)	ON only
Signal-to-Noise Ratio	50 dB (equivalent to AGC Off, weight On)
Minimum Illumination	1.6 lux (0.16 fc) at F1.4 (WIDE)
Light Control	ALC mode
Back Light Compensation (BLC)	On or Off
Detail	Sharp or Soft, selectable
Lens	Type 2x variable-focal lens with auto iris
Focal Length	2.8 - 6.0 mm
Angular Field of View	Horizontal: 35.6° ~ 72.6°, Vertical: 26.7° ~ 54.0°
F Number	F1.4 (Wide) to F176, close / F1.8 (Wide) to F176, close
Min. Object Distance	1.2 m
Panning Range	200° (±100°)
Tilting Range	150° (±75°)
Azimuth Range	200° (±100°)
Ambient Operating Temperature	-10 °C ~ +50 °C (14 °F ~ 122 °F)
Ambient Operating Humidity	Less than 90 %
Power Source and Power Consumption	12 V DC, 235 mA 24 V AC 60 Hz, 2.8 W
Dimensions	ø135 (D) x 90 (H) mm (ø5-5/16" (D) x 3-9/16" (H))
Weights	0.46 kg (1.01 lbs.)

APPEARANCE

The technical drawing shows the camera's dimensions and cable access hole. The main body diameter is 135 (5-5/16") and the height is 90 (3-9/16"). The lens diameter is 46 (1-13/16"). The cable access hole diameter is 16 (5/8"). The distance from the center to the cable access hole is 83.5 (3-5/16"). The distance from the center to the lens is 35 (1-3/8"). The distance from the center to the cable access hole is 46 (1-13/16"). The distance from the center to the cable access hole is 4-ø4.5 (4-ø3/16"). The distance from the center to the cable access hole is 83.5 (3-5/16"). The distance from the center to the cable access hole is 16 (5/8").

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

• Weights and dimensions are approximate. • Specifications are subject to change without notice. • These products may be subject to export control regulations.

Panasonic

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