Panasonic
ideas for life

Vandal Proof
Super Dynamic II Color Cameras
(with Low-Light B/W Mode)

WV-CW474A Series

The Easy to Install
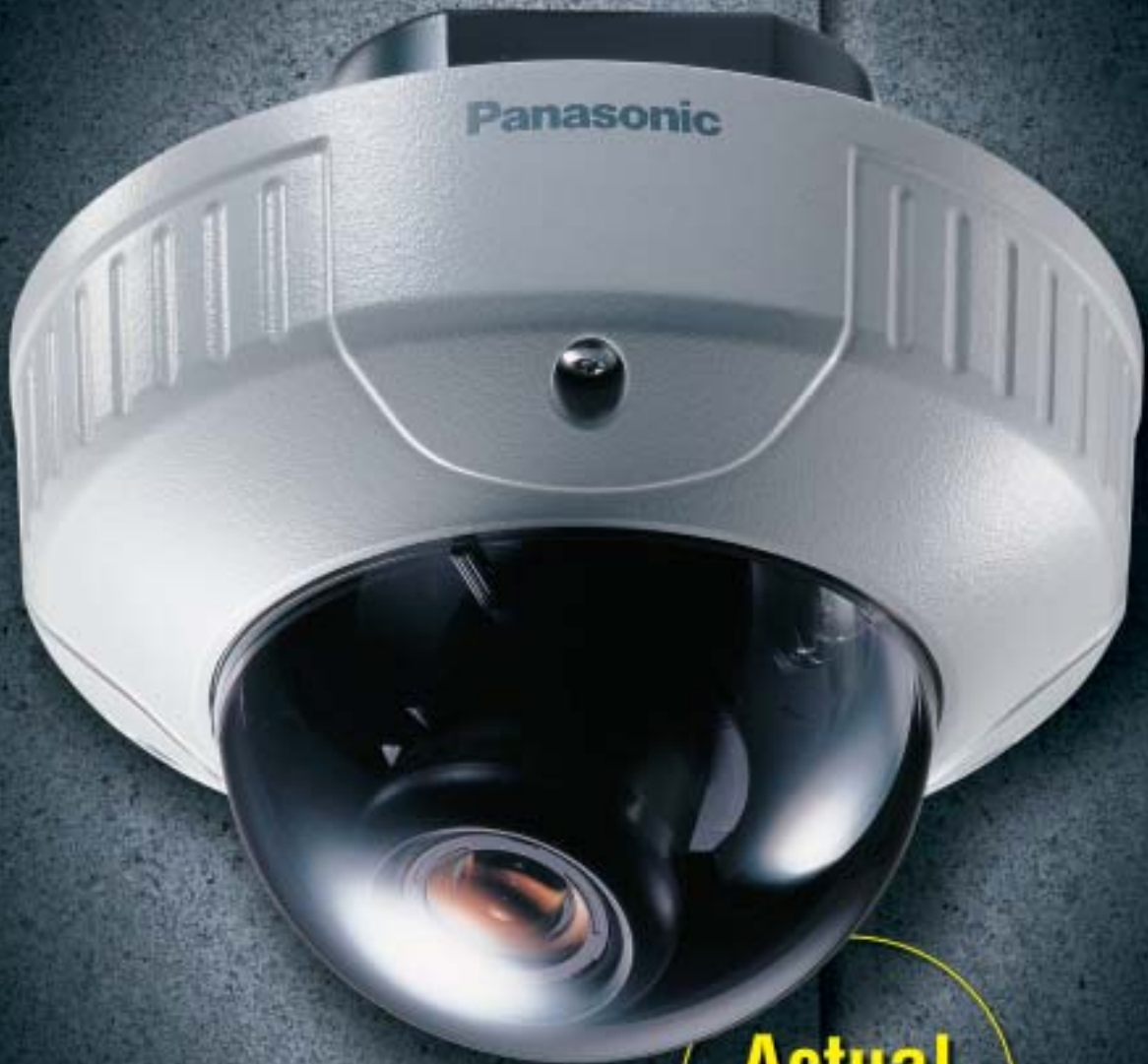
Vandal Proof

Weather Proof

Camera Solution

day/night

READY TUFF

SDII
Super Dynamic ™

Heavy Duty Construction

Actual Size
(WV-CW474AF)

Die-cast aluminum body
Shock Resistant

With a body made of die-cast aluminum and a dome made of 3.5mm thick polycarbonate, these cameras are tough enough to resist severe shocks.

The camera lens unit has a spring structure, so the chassis can withstand external shocks.

IP66 approved
Rain and Wind Resistant

Meet IP66 international standards. With excellent dust and moisture resistant capabilities these cameras can be used outdoors, under building eaves.

Heater Unit: WV-CW3H (Optional)
Ideal for Varying Temperatures

The optional heater unit adjusts automatically to temperature fluctuations, helping to prevent dew condensation.

High Performance in a Rugged Body.

Panasonic's new Vandal Proof Super Dynamic II Color Cameras. The WV-CW474A Series are not only rugged and loaded with high-performance features, they are also easy to install. Highly resistant to dust, moisture and shock these units satisfy international standards. The WV-CW474A Series include high image quality, increased sensitivity, day/night switching for 24-hour surveillance and a multi-function motion detector. Free from conventional limitations on placement, application and objective, these multipurpose color cameras are ideal for numerous surveillance applications.

READY TUFF

Feature Loaded & Simple to Install

For single-camera
24-hour surveillance
Day/Night Switching

Day

Night

Versatile attachment
with Unlimited Positioning
3-Dimensional Hinges

Panasonic

Senses motion
and sends alarm signal
Motion Detector

64 times dynamic range
Super Dynamic II

SDII™
Super Dynamic

Two Types to Choose From

For direct attachment to walls, ceilings, eaves

For insertion in existing junction box

Surface Mount Type
WV-CW474AS

Flush Mount Type
WV-CW474AF

With All the Features You Need for a Wide Variety of Surveillance Applications.

Feature Loaded

Single-camera 24-hour surveillance Day/Night Switching

To allow 24-hour surveillance, these cameras (in high-sensitivity mode) sense darkness and switch automatically from daytime color to nighttime black-and-white with duration and timer setting to meet exact installation requirements. They can also be switched from color to black-and-white manually.

Day (Color mode)

Night (B/W mode) at low-light condition

Day/Night switching

Full-color images at 0.8lux* (0.08fc*) Black-and-white images at 0.1lux* (0.01fc*)

These cameras support full-color surveillance in low-light situations like this parking lot, switching to black-and-white allows surveillance in light as low as 0.1lux (0.01fc) with optional clear dome cover; WV-CW2C. IR response down to 0.00lux is valid. 10x auto electronic sensitivity up is also supported (in fixed mode 32x available).

Current

WV-CW474A Series at color imaging

Current

WV-CW474A Series at B/W mode

*With optional clear dome cover; WV-CW2C

510-line horizontal resolution in color mode

Equipped with a powerful 768(H) x 494(V) 1/3-type CCD, these cameras deliver beautifully clear images with 510 lines (at High) and 480 lines horizontal resolution at color imaging, and 570 lines at B/W mode.

2x variable-focal lens is standard equipment

Equipped with a 2x variable-focal lens plus an additional 2x electronic zoom, these cameras can view their subjects in greater details.

With Super Dynamic II, backlighting is no problem

SDII™

With a 64 times dynamic range, Panasonic's proprietary Super Dynamic II processing yields clear images even in high-contrast or backlit lighting situations.

Set the lens aperture to the bright section, and the dark section is invisible.

Set the lens aperture to the dark section, and the bright section is invisible.

Digital signal technology allows images with high contrast to be seen on screen.

Digital Motion Detector senses movement and sends an alarm signal

When the Motion Detector senses movement in the monitored image, it automatically sends an alarm signal to the system. When linked to a recording device, it provides an efficient way to avoid missed images.

(Turns white only in demo mode)

Character displays title

The monitor can display title up to 16 roman letters or numbers. By allowing instant identification of pre-set camera locations, this feature can help prevent errors during emergency situations.

ENTRANCE

Photographs were taken for the purpose of explanation; actual images may differ.

Simple to Install

Proprietary 3-D hinge makes adjustments easy

The 3-dimensional hinge (Pan, Tilt and Azimuth) allows the camera to be rotated as well as moved horizontally and vertically. Digital signal processing allows the image itself to be shifted up, down, left, right, or inverted. Choose precisely the camera angle you need; no camera makes it easier.

Pan 320 degrees   Tilt 150 degrees   Azimuth 320 degrees

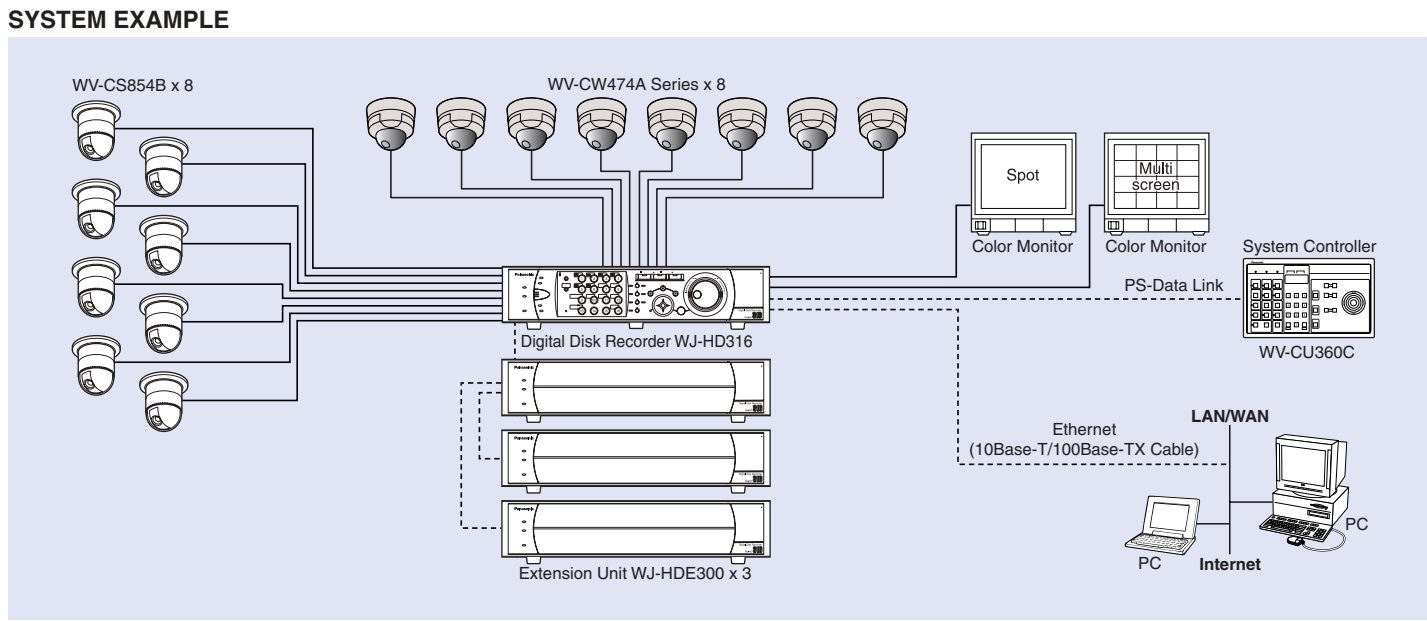### Accepts both 24V AC and 12V DC power in a single unit

WV-CW474A Series accept both 24V AC and 12V DC with a single cable terminal. This unique capability enables simple model selection and easy installation.

Basic settings couldn't be simpler

Simple dipswitches control Soft/Sharp, Day/Night: Off/Auto and other basic settings. A compact monitor-out terminal with a small liquid crystal display allows you to check settings on the spot.

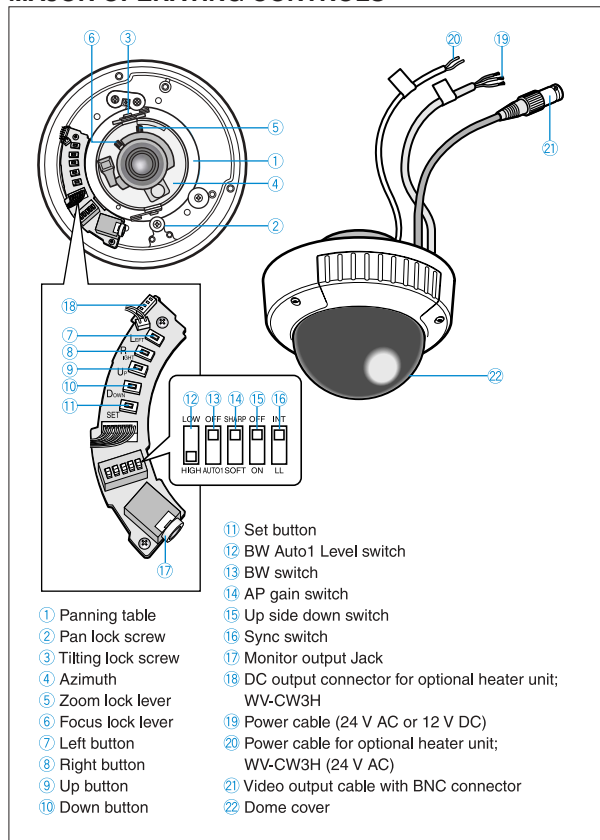### Easily installs in existing electronic junction box

The Flush Mount Type WV-CW474AF can be installed in existing two gang junction box.

SYSTEM EXAMPLE

WV-CS854B x 8

WV-CW474A Series x 8

Spot   Multi screen

Color Monitor   Color Monitor   System Controller

PS-Data Link

WV-CU360C

Digital Disk Recorder WJ-HD316

Extension Unit WJ-HDE300 x 3

Ethernet
(10Base-T/100Base-TX Cable)

LAN/WAN

PC

PC   Internet

at ATMs/Banks/Jewelry Shops   at Campus   at Shopping mall/Building/Office

- At Hospitals
- At Day Care Centers
- At Courthouses
- At Correctional Facilities
- At Warehouses
- And many more

MAJOR OPERATING CONTROLS

① Panning table
② Pan lock screw
③ Tilting lock screw
④ Azimuth
⑤ Zoom lock lever
⑥ Focus lock lever
⑦ Left button
⑧ Right button
⑨ Up button
⑩ Down button

⑪ Set button
⑫ BW Auto1 Level switch
⑬ BW switch
⑭ AP gain switch
⑮ Up side down switch
⑯ Sync switch
⑰ Monitor output Jack
⑱ DC output connector for optional heater unit; WV-CW3H
⑲ Power cable (24 V AC or 12 V DC)
⑳ Power cable for optional heater unit; WV-CW3H (24 V AC)
㉑ Video output cable with BNC connector
㉒ Dome cover

LOW OFF SHARP OFF INT
HIGH AUTO1 SOFT ON LL

OPTIONAL COMPONENTS & ACCESSORIES

Mounting Base for WV-CW474AF
WV-Q112

Heater Unit
WV-CW3H

Clear Dome Cover
WV-CW2C

Digital Disk Recorders
WJ-HD316 (16ch)   **WJ-HD309** (9ch)

PS·Data   PS·Data

MATRIX SYSTEM 500
Matrix Switcher
WJ-SX550C
Card Cage
WJ-AD550
System Controller
WV-CU550C

System Controller
WV-CU360C

PS·Data

Color Monitors
WV-CM2080 51cm (20")   **WV-CM1780** 41cm (16")   **WV-CM1480** 36cm (14")   **WV-CM1420** 34cm (13")   **WV-CM1020** 22cm (9")

PS·Data   PS·Data   PS·Data

SPECIFICATIONS

Model No.	WV-CW474AS	WV-CW474AF
Type	Surface mount type	Flush mount type
Pick Up Device	768 (H) x 494 (V) pixels, interline transfer CCD	
Scanning Area	4.8 (H) x 3.6 (V) mm, (Equivalent to 1/3" tube)	
Scanning	525 lines / 60 fields / 30 frames	
Scanning System	2 : 1 interlace	
Synchronization	Internal / Line-Lock / VD2	
Video Output	VBS 1.0V [p-p] / 75 Ω / NTSC composite signal / BNC connector	
Resolution Horizontal	510 lines (at High) and 480 lines at color imaging mode, 570 lines at B/W mode	
Vertical	more than 350 lines	
Minimum Illumination (at F1.4 Wide)	2.0 lux (0.2 fc) at color imaging mode	
	0.2 lux (0.02 fc) at B/W mode	
	0.8 lux (0.08 fc) at color imaging mode, with optional dome cover; WV-CW2C	
	0.1 lux (0.01 fc) at B/W mode, with optional dome cover; WV-CW2C	
Signal to Noise Ratio	50dB (at AGC Off, Weight On, AP On)	
Dynamic Range	46dB (typical)	
Functions Camera Title	16 character display (alphabet, numeric, symbols)	
Light Control	ALC mode	
Super Dynamic II	On / Off	
Electronic Shutter	Off, 1/100, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 sec.	
AGC	On (High / Mid / Low) / Off	
Electronic Sensitivity Up	Off, Auto (x2, x4, x6, x10), Fix (x2, x4, x6, x10, x16, x32)	
White Balance	ATW 1 / ATW 2 / AWC	
Motion Detector	On / Off	
Lens Type	2x variable focal lens	
Focal Length	3.8 ~ 8.0 mm	
Aperture Ratio	F1.4 (Wide) to F176, close / F1.8 (Tele) to F176, close	
Min. Object Distance	1.2 m (3.9 ft) - ∞	
Power Source and Consumption	24V AC 60Hz; 3.4W 12V DC; 335mA (12.1W optional Heater Unit; WV-CW3H only)	
Ambient Operating Temperature	−10°C ~ +50°C (14°F ~ 122°F)	
	[−30°C ~ +50°C (−22°F ~ 122°F) with optional Heater Unit (WV-CW3H)]	
Ambient Operating Humidity	Less than 90%	
Dimensions (D) x (H) mm	ø160 x 140.5 (ø6-5/16" x 5-9/16")	ø152.5 x 137 (ø6 x 5-3/8")
Weight (approx.)	1.7 kg (3.8 lbs.)	1.2 kg (2.7 lbs.)

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

APPEARANCE

Unit: mm (inches)

WV-CW474AS (Surface mount type)

(NPSM 3/4)
SR47.5
ø160(ø6-5/16")
270(10-5/8")
270(10-5/8")
270(10-5/8")
42.5 (1-11/16") 39.5 (1-9/16")
46(1-13/16")
83.5(3-5/16")
85(3-3/8")
φ27(φ1-1/16")
85(3-3/8")
51(2")
51.5(2-1/32") 19 (3/4")
99(3-7/8") 41.5 (1-5/8")
140.5(5-9/16")
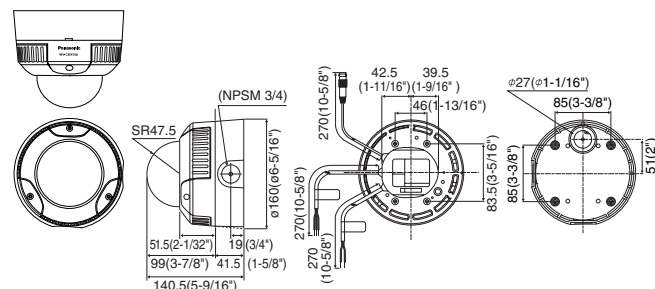
WV-CW474AF (Flush mount type)

SR47.5
ø152.5(ø6")
64(2-1/2")
72(2-13/16")
270(10-5/8")
270(10-5/8")
270(10-5/8")
42.5 (1-11/16") 39.5 (1-9/16")
46(1-13/16")
83.5(3-5/16")
51.5(2-1/32")
99(3-7/8") 38 (1-1/2")
137(5-3/8")

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