

Panasonic
ideas for life

Vandal Proof Super Dynamic III
Colour Dome Cameras
WV-CW480 Series



Advanced Vandal Proof Dome Camera



Heavy Duty Highly reliable advanced design

Features Anti-shock Auto Back Focus (ABF) and IP66 rating for heavy duty use

Easy Installation.....



Removable Attachment

Reduces labour costs and provides a simple-to-install waterproofing solution.

Waterproof..... Section



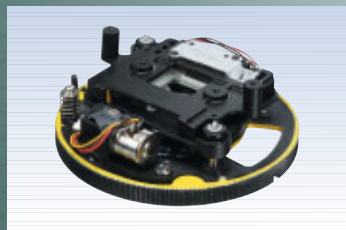
Electrolysis Dehumidification Device

Functioning as an electric dryer, it reduces condensation by electrolyzing internal moisture and continuously discharging it from the camera.



Anti-shock Auto Back Focus (ABF)

New miniaturized mechanism provides greater accuracy and shock resistance.



Waterproof Seal

New material effectively prevents water from entering the housing, even under the harshest conditions.

IP66 Water and Dust Proof IP66 standard

IP66 rated Water and Dust proof allows use under various circumstance.



Dehumidification Device Withstands Humidity

New dehumidification device reduces condensation caused by sudden temperature changes. In addition, the optional Heater Unit (WV-CW4H) senses temperature and automatically adjusts to optimal levels. The operating temperature becomes -30 °C to +50 °C.



Die cast aluminum body Withstands Severe Shocks

The die cast aluminum body is complemented by a 3.5 mm thick, polycarbonate dome.



A spring mounted lens unit protects the camera and lens by absorbing external shock.



Superior surveillance performance, waterproofing and ease of installation. Introducing the WV-CW480 Series Vandal Proof Super Dynamic III Camera.

The new WV-CW480 Series, a high-end model equipped with *Super Dynamic III* joins Panasonic's Vandal Proof Camera line. In addition to a Day/Night feature, the camera is equipped with a newly developed Anti-shock Auto Back Focus (ABF), ensuring crystal clear surveillance around the clock. Its robust body with waterproof properties meets the IP66 standard and is fully equipped with intelligent surveillance performance and high image quality, including 160x Dynamic Range.

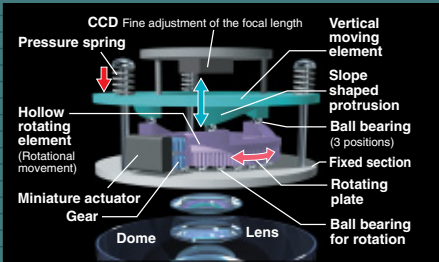


SDIII
Super Dynamic

Panasonic offers industry leading features to handle installation in severe environments

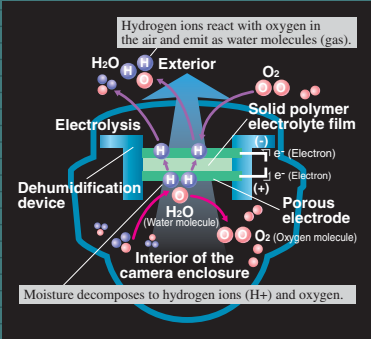
Anti-shock Auto Back Focus (ABF)

For the first time, the WV-CW480 Series Vandal Proof cameras are equipped with an Auto Back Focus function. This will ensure perfect focus when switching from colour to black and white, while simplifying installation. Miniaturization of the mechanism, smooth and highly precise CCD migration and greater shock resistance are benefits realized by driving the cam and ball bearing structure with a miniature actuator.



Electrolysis Dehumidification Device

A special electrolyte film dissolves humidity inside the camera into hydrogen ions and oxygen molecules. The hydrogen ions are discharged as a vapor outside of the camera. This Electrolysis Dehumidification Device keeps the humidity inside the camera low and reduces condensation during sudden temperature changes.



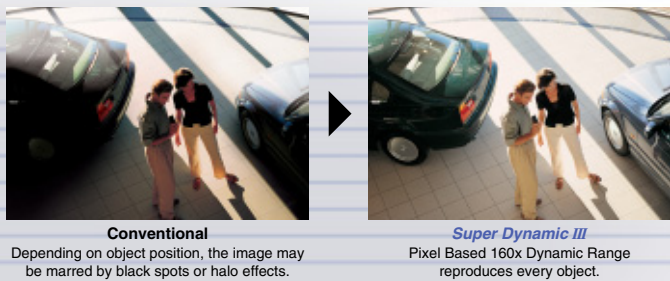
Feature Loaded Higher resolution & greater intelligence

Super Dynamic III equipped, 24-hour highly reliable surveillance



Adaptable to contrast Pixel Based 160x Dynamic Range

Objects on every area of the screen are reproduced faithfully by Area Free Natural Contrast Image Correction that performs pixel-based correction. Furthermore, 160x Dynamic Range is realized by shutter images of 1/50 seconds and 1/8,000 seconds. Even under changing contrast situations like time of day, weather or season, superb natural images are realized.



Clear details Horizontal resolution of 540 TV lines (colour mode)

Horizontal resolution is 540 TV lines in colour mode (typical), 570 TV lines in black and white mode.

24 hour surveillance Day/Night Switching

When the surrounding area becomes dark, the operating mode automatically switches from colour to black and white increasing sensitivity. In the morning, the operating mode automatically switches to colour, allowing for complete surveillance both day and night. Mode switching can also be performed manually.

Works effectively in dim light Full colour images at 0.6 lux Black and white images at 0.08 lux

Minimum illumination needed is 0.6 lux in colour and 0.08 lux in B/W mode, with the standard clear dome.

Tampering Alarm Scene Change Detection

The camera sends an alarm when various acts of tampering are detected. These acts include spray painting the lens and covering the lens with a cloth.



After Image reduction Adaptive Digital Noise Reduction

Double processing of 2D DNR and 3D DNR reduces unwanted images such as car headlights seen in conventional 3D DNR.



Real colour reproduction Colour Processing Enhancements

By improving the reproduction of low intensity areas and subtle colours, individuals and objects are produced in natural, clear colours.

Day and night Focus Auto Back Focus (ABF)

When switching from colour imaging to black and white imaging, the back focus automatically adjusts the position of the CCD, thus eliminating the focus shift caused by the deviation of the IR cut filter on conventional cameras. In addition, when switching back from black and white to colour mode, the CCD returns to its original position, offering true 24 hour day/night surveillance.

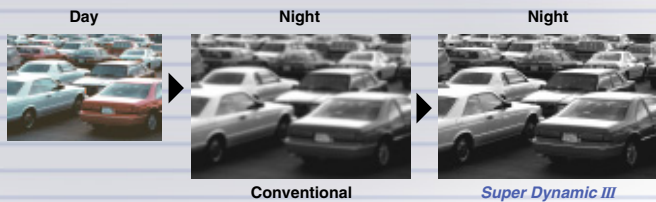


Image vibration reduction Auto Image Stabilizer

When trains or passing vehicles cause the camera to vibrate, images are automatically stabilized.



Sensing object movement Video Motion Detector

When object movement is detected on screen, an alarm is transmitted. An automatic recording system can be implemented using an optional digital disk recorder.

Displaying camera titles 16 Alphanumeric Characters

A maximum of 16 characters, including alphanumeric and symbols can be displayed on screen.

Simple to Install Easy, secure installation

Labour saving Auto Back Focus (ABF) and attachment of removable structures

Easy to adjust focus Auto Back Focus (ABF)

After adjusting the viewing angle, simply push the Auto Back Focus (ABF) button on the camera; or adjust via the optional system controller. The dome cover should be attached during the three minute LED timer flashing to ensure proper focus. Perfect focus and reduced installation time is achieved.

No special waterproofing measures necessary Removable Attachments

By using removable attachments, no special measures are required to protect the waterproof section, thus reducing installation labour.

Easy adjustment of various settings Menus in Eight Languages

Menus can be selected in English, German, French, Italian, Spanish, Russian, Chinese or Japanese.

Can be installed in a junction box Flush Mount Type: WV-CW484F

The flush mount WV-CW484F can be neatly installed within existing junction boxes.

Easy viewing angle adjustment 2x Variable Focal Lens

The standard 3.8-8.0mm 2x variable focal lens enables easy angle adjustment for optimal viewing.

Easy angle and focus adjustments Monitor output terminal

When connecting a portable LCD to the monitor output terminal, you can adjust the viewing angle while confirming the image on the spot. In addition, when connecting the monitor the camera automatically switches to ELC mode so you can accurately set the spot you want to monitor.

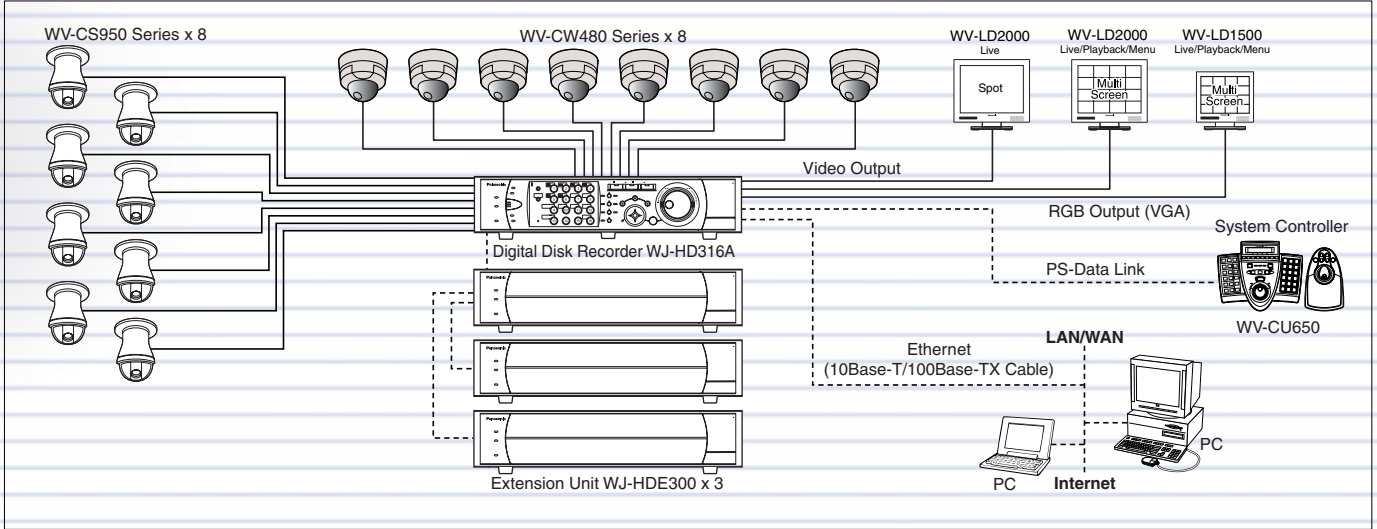
Trouble-free installation anywhere Three-way hinge

The camera platform inside the dome has a three-way hinge that allows horizontal, vertical and swivel rotation. In addition, an upside-down function allows images to be digitally flipped both vertically and horizontally. These flexible camera angle adjustments provide trouble-free installation.

Can be embedded in the ceiling Embedded Ceiling Installation with WV-Q166

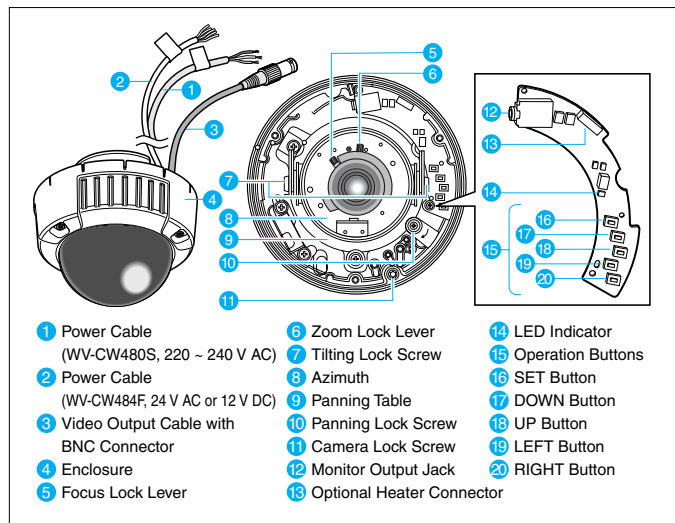
For indoor installations where the entire camera body requires concealment, use the optional WV-Q166 bracket.

SYSTEM EXAMPLE



The above photographs were taken for the purpose of this explanation; actual performance and images may vary depending on environmental or other conditions.

MAJOR OPERATING CONTROLS & TERMINALS



SPECIFICATIONS ☐ PAL

Model No.	WV-CW480S	WV-CW484F
Type	Surface mount type	Flush mount type
Camera	Image Sensor 1/3-type interline transfer CCD Effective Pixels 752 (H) x 582 (V) Scanning Mode 2:1 interlace scan Scanning Area 4.8 (H) x 3.6 (V) mm Scanning Frequency Horizontal: 15.625 kHz, Vertical: 50 Hz Scanning Line 625 lines Horizontal Resolution 540 TV lines typical at colour high mode, 480 TV lines at colour normal mode, 570 TV lines at B/W mode Minimum Illumination 0.6 lux (Colour), 0.08 lux (B/W), (SENS UP: OFF) at F1.4 0.06 lux (Colour), 0.008 lux (B/W), (SENS UP: 10x) at F1.4 Signal-to-Noise Ratio 50 dB (AGC Off, weight On) Dynamic Range 54 dB typical (Super Dynamic III ON) White Balance ATW1, ATW2, or AWC AGC/GAIN ON (HIGH/MID/LOW), or OFF Electronic Shutter OFF (1/50), 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 s Sensitivity UP OFF / AUTO (2x, 4x, 6x, 10x, 16x, 32x) / FIX (2x, 4x, 6x, 10x, 16x, 32x) Digital Zoom 2x Back Focus Adjustment ABF, MANUAL, AUTO/PRESET/FIX Light Control ALC / ELC (only when monitor output is used) Super Dynamic III ON or OFF (with BLC masking) Synchronization Internal (INT), Multiplexed Vertical Drive (VD2), Line-Lock (LL) Digital Noise Reduction High or Low Resolution Mode Normal or High Black and White Mode Mode: AUTO1/AUTO2/ON/OFF, Level: High/Low, with external control Auto Image Stabilizer ON or OFF Video Motion Detector MODE1, MODE2 (Scene change) or OFF Privacy Zone ON (Gray/Mosaic) or OFF Camera Title Up to 16 characters Language English, French, German, Spanish, Italian, Russian, Chinese or Japanese Lens Mount CS-mount	
Lens	Type 2x varifocal Focal Length 3.8 ~ 8.0 mm Angular Field of View H: 35.6° (TELE) ~ 73.6° (WIDE) V: 26.6° (TELE) ~ 53.4° (WIDE) Aperture Range 1:1.4 (WIDE) 1:1.8 (Tele) Focusing Range 1.2 m ~ ∞ (3.9 ft. ~ ∞) Panning Range ±175° Tilting Range ±75°	
Pan and Tilt		
Input/Output	Video Output 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector Multiplexed VD2 and control data capable Monitor Output 1.0 V [p-p] / 75 Ω / PAL composite signal / ø3.5 mm mini jack	
General	Power Source and Power Consumption 220 V ~ 240 V AC 50 Hz, 7 W, 13 W* 24 V AC 50 Hz, 4.1 W, 11 W* 12 V DC 340 mA** Ambient Operating Temperature -10 °C ~ +50 °C, -30 °C ~ +50 °C* Ambient Operating Humidity 90 % or less (no condensation) Water and Dust Resistance IP66 rated water and dust proof. IEC60529 measuring standard compatible. Dimensions (D x H) ø160 mm x 161.7 mm ø153.9 mm x 141.2 mm Weight (approx.) 2.1 kg 1.4 kg	

* With optional Heater Unit WV-CW4H

** Optional Heater Unit WV-CW4H cannot be used under 12 V DC operation

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

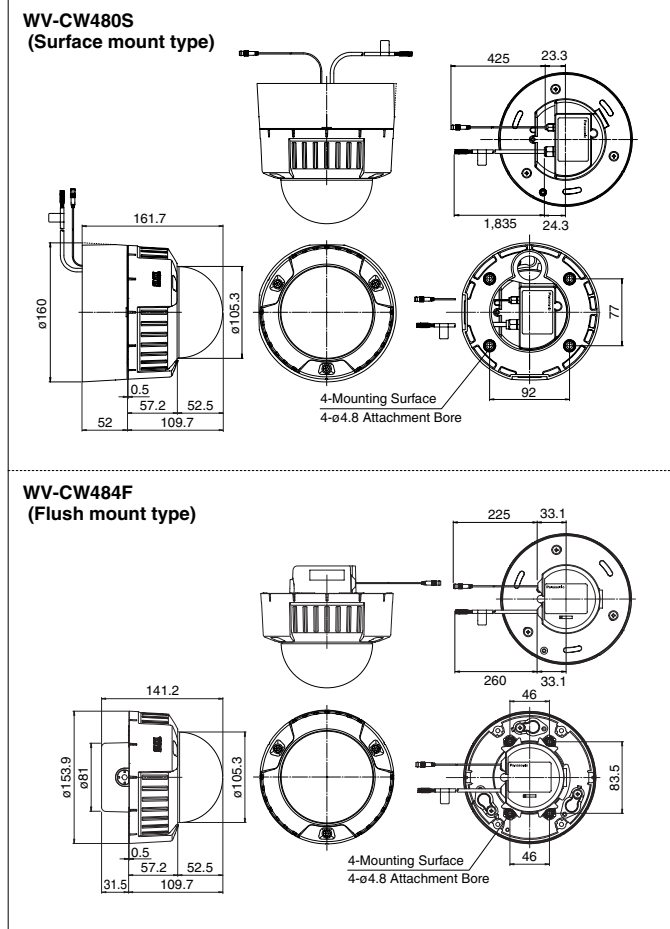
• All TV pictures are simulated. • Weights and dimensions are approximate. • Specifications are subject to change without notice. • These products may be subject to export control regulations.

STANDARD PRODUCT CONFIGURATIONS



APPEARANCE

Unit: mm



OPTIONAL ACCESSORIES



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