

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.....



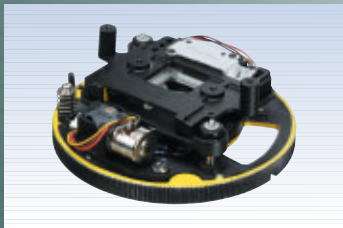
Electrolysis Dehumidification Device

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.



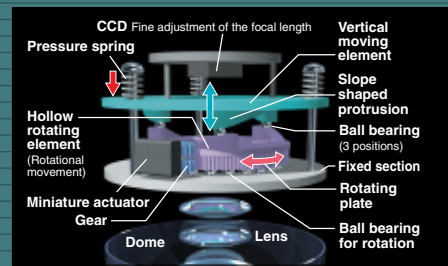
Actual Size
(WV-CW480S)

SDIII
Super Dynamic

Panasonic offers industry leading features to handle installation in severe environments

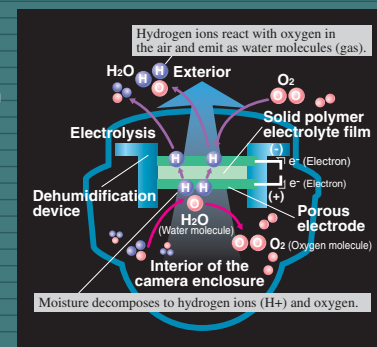
Anti-shock Auto Back Focus (ABF)

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.



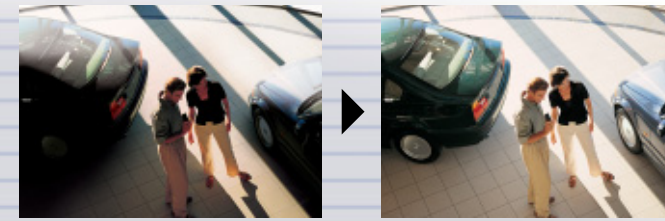
Feature Loaded Higher resolution & greater intelligence

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.



Conventional
Depending on object position, the image may be marred by black spots or halo effects.

Super Dynamic III
Pixel Based 160x Dynamic Range reproduces every object.

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.

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.

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.



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.



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

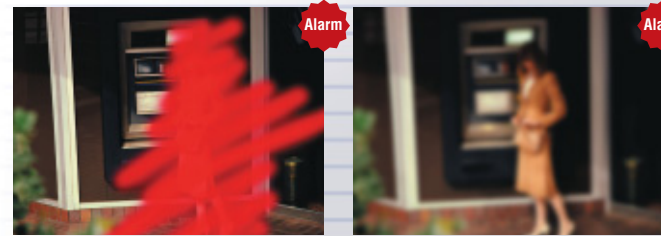
Minimum illumination needed is 0.6 lux in colour and 0.08 lux in B/W mode, with the standard clear dome.



Conventional **Super Dynamic III**

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

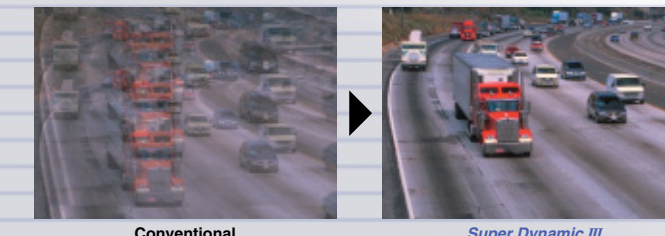
Double processing of 2D DNR and 3D DNR reduces unwanted images such as car headlights seen in conventional 3D DNR.



Conventional **Super Dynamic III**

Image vibration reduction Auto Image Stabilizer

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



Conventional **Super Dynamic III**

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

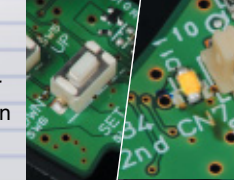
A maximum of 16 characters, including alphanumeric and symbols can be displayed on screen.

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.



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.

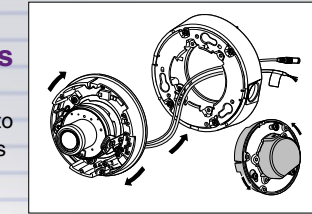
Easy angle and focus adjustments Monitor output terminal

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.



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 Menu 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.



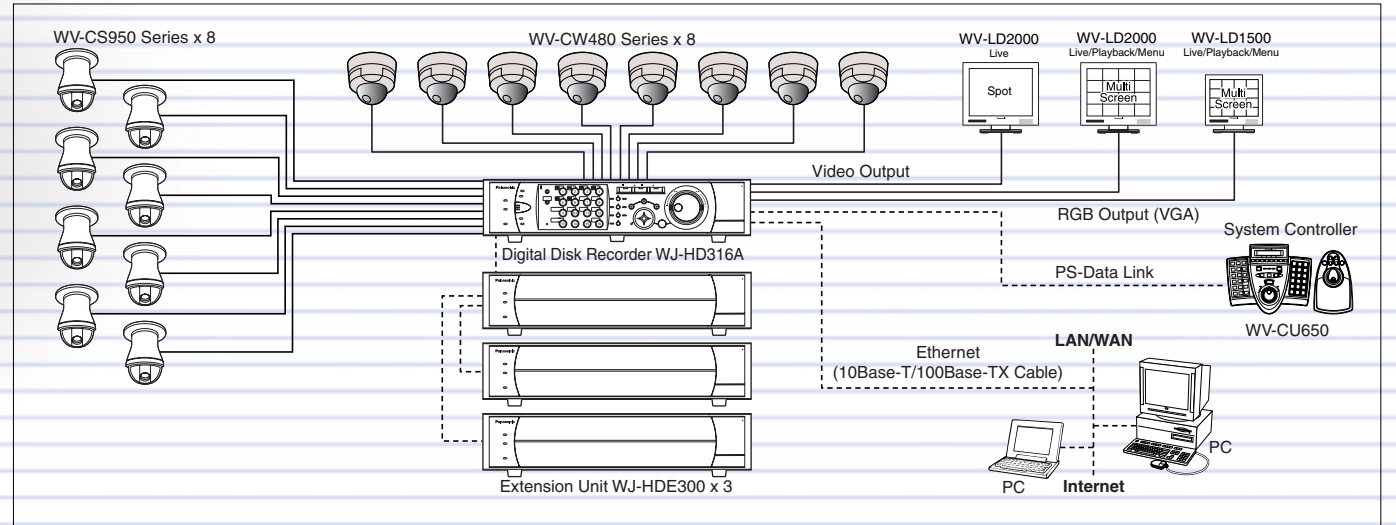
Can be embedded in the ceiling Embedded Ceiling Installation with WV-Q166

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



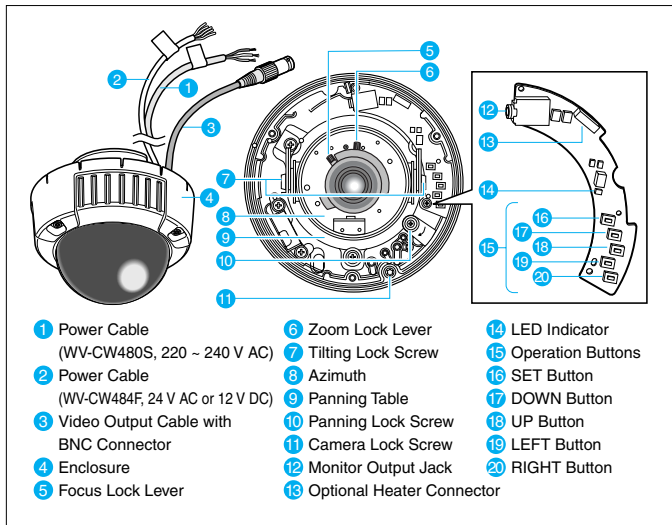
	Surface Mount	Flush Mount	Embedded Mount
WV-CW480S	Mount Base is provided with Camera	-	with WV-Q166 Embedded Ceiling Mount Bracket (Need to change the attachment)
WV-CW484F	with WV-Q114 Mounting Base	as it is	with WV-Q166 Embedded Ceiling Mount Bracket

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. ~ ∞)	
Pan and Tilt	Panning Range: ±175°	
	Tilting Range: ±75°	
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.

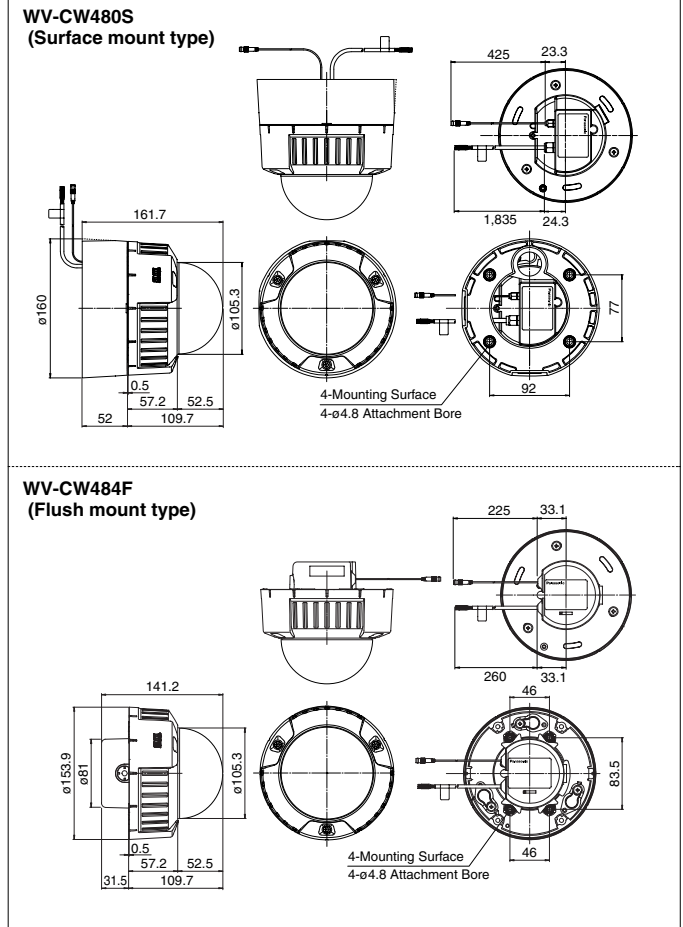
• All TV pictures are simulated. • Weights and dimensions are approximate. • Specifications are subject to change without notice. • These products may be subject to export control regulations.

STANDARD PRODUCT CONFIGURATIONS



APPEARANCE

Unit: mm



OPTIONAL ACCESSORIES



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