Panasonic ideas for life

Color Dome Cameras WV-CF294/284 Series

Panasonic WV-CF294

HIGH PERFORMANCE
COMPACT COLOR DOME CAMERA
WITH NEWLY-DEVELOPED
DIGITAL SIGNAL PROCESSOR

ADVANCED FEATURES, HIGH PICTURE QUALITY, COST EFFICIENCY





Superb Picture Quality that Approaches Real

The new WV-CF294/284 Series of compact dome cameras from Panasonic are equipped with a recently-developed high-per like those seen by the human eye. The WV-CF294/284 Series also provides easier installation including Also features high cost performance. The WV-CF294/284 Series can be used at a variety of the series of compact dome cameras from Panasonic are equipped with a recently-developed high-per like those seen by the human eye. The WV-CF294/284 Series can be used at a variety of the series of compact dome cameras from Panasonic are equipped with a recently-developed high-per like those seen by the human eye. The WV-CF294/284 Series can be used at a variety of the series of the series of compact dome cameras from Panasonic are equipped with a recently-developed high-per like those seen by the human eye.

High image quality

Equipped with Adaptive Black Stretch

Transforms dark areas into natural and crisp images

Adaptive Black Stretch

The image processing algorithm built into the newly-developed DSP enables the transformation of shadows and dark areas into natural and crisp images in real time. It can reproduce images that are more similar to human sight.

Reproducing clear images down to the smallest detail

Horizontal resolution of 540 TV lines in color mode

It can reproduce images clearly, down to the smallest detail, making it easier to identify subjects.

Powerful in low light

Minimum illumination intensity of 0.9 lux (0.09 fc) in color mode

Introduction of a new circuit provides high sensitivity at a minimum illumination intensity of 0.9 lux (0.09 fc) in color mode. Clear and color monitoring is possible even in low light.

Day/Night feature

When surrounding areas dim, the mode automatically switches from color to black and white while sensitivity is increased. Additionally, when the surrounding area brightens, the mode automatically

switches back to color.

* No IR filter shifting



B/W mode for low-light condition

Equipped with additional correction features

Both cameras are equipped with various correction features including Back-Light Compensation (BLC), Auto Tracing White Balance (ATW) and Automatic Light Control (ALC). These features enable installation in a wide-range of environments.



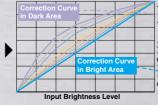
Newly-developed DSP utilizing the first Adaptive Black Stretch technology in the Security industry

The first DSP to automatically detect dark areas inside an image, detecting brightness data around dark area and conducting tone correction in real time by determining the most suitable correction curve for each area. This image

processing algorithm corrects for shadows and dark areas producing natural, crisp images in real time.



Before correction





After correction

lity. Easy Installation. High Cost Performance.

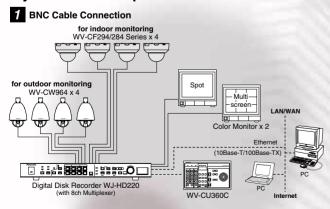
erformance DSP that provides better image quality. Adaptive Black Stretch technology transforms dark areas into crisp images

gfurther accuracy and simple focus adjustment through a newly-developed Auto Back Focus* mechanism.

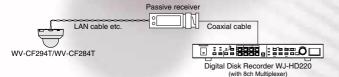
of sites including offices, retail stores, restaurants and shopping malls. * wv-cF294/wv-cF294T only



System Examples



2 Unshielded Twisted Pair (UTP) Cable Connection



Easy installation

Newly-developed Auto Back Focus (ABF)

Accurate focus adjustment

Auto Back Focus (ABF) (WV-CF294/WV-CF294T only)

The WV-CF294 and WV-CF294T are equipped with the newly-developed Auto Back Focus (ABF). After adjusting the viewing angle, you can precisely focus the camera simply by pushing the Auto Back Focus (ABF) button on the camera body.





Easy viewing angle adjustment

3.6x Variable Focal Lens (WV-CF294/WV-CF294T only)

The WV-CF294/WV-CF294T comes equipped with a 3.6x variable focal lens. The focal length is 2.8~10.0mm, enabling a variety of viewing angle adjustments. It allows installation in high locations such as airport ceilings and hotel ballrooms. The WV-CF284/WV-CF284T comes equipped with a 2x variable focal lens with a focal length of 2.8~6.0mm.

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.



Three-way hinge

The camera platform inside the dome has a three-way hinge that allows horizontal and vertical rotation, as well as swivel rotation, enabling flexible camera angle adjustment. Additionally, you can install the camera anywhere, not only on the ceiling but also on walls or inside elevators.

Plus, other features for flexible system configuration

Unshielded Twisted Pair (UTP) cables (WV-CF294T/WV-CF284T only)

The WV-CF294T and WV-CF284T support Unshielded Twisted Pair (UTP) cables.



24V AC/12V DC

Both 24V AC/12V DC are available. Accordingly, you can use these cameras in a variety of installation environments.

Multi-channel camera systems

Simultaneously supports two types of synchronization modes, Internal and VD2. These cameras also easily facilitate the establishment of multi-channel systems using multiple cameras.

Can be installed in junction boxes

These cameras can be easily installed in existing junction boxes.

STANDARD PRODUCT CONFIGURATIONS



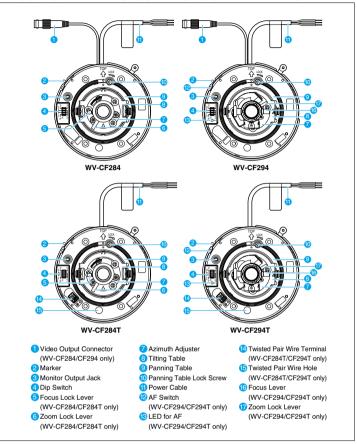
OPTIONAL COMPONENTS & ACCESSORIES



SPECIFICATIONS

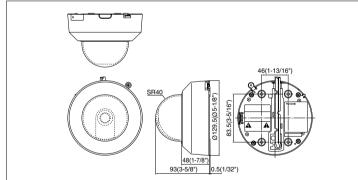
Model No		WB/ 05004	1407 05004	WILL OFFICE	1407 OF004E
	-	WV-CF294	WV-CF284	WV-CF294T	WV-CF284T
Image Sensor		1/4-type interline transfer CCD			
Effective Pixels		768 (H) x 494 (V)			
Scanning Area		3.6 (H) x 2.7 (V) mm			
		(equivalent to scanning area of 1/4" pick-up tube)			
Scanning System		2:1 interlace			
Scanning Lines		525 lines			
Scanning Frequency		Horizontal: 15.734 kHz			
		Vertical: 59.94 Hz			
Synchronization		Internal or multiplexed vertical drive (VD2)			
Resolution		Horizontal: 540 TV lines (at center)			
		Vertical: 350 TV lines (at center)			
Video Output		1.0 V [P-P] NTSC composite 75 Ω			
White Balance		ATW only			
Signal-to-Noise Ratio		50 dB (equivalent to AGC Off, weight On)			
Minimum	Illumination	0.9 lux (0.09 fc)	0.9 lux (0.09 fc)	0.9 lux (0.09 fc)	0.9 lux (0.09 fc)
		at F1.3 (WIDE)	at F1.4 (WIDE)	at F1.3 (WIDE)	at F1.4 (WIDE)
Light Control Mode Setting		ALC/ELC			
Switch Function		Light control mode selector (ALC/ELC), Backlight compensation selector (ON/OFF),			
Switch Fu	unction	Light control mode s	elector (ALC/ELC), B	acklight compensatio	n selector (ON/OFF),
Switch Fu	inction			acklight compensatio), Day/Night mode sel	
	unction), Day/Night mode sel	ector (ON/OFF)
	Focal Length	Adaptive Black Stret	ch selector (ON/OFF), Day/Night mode sel	ector (ON/OFF)
		Adaptive Black Stret 3.6x variable focal lens	ch selector (ON/OFF 2x variable focal lens), Day/Night mode sel 3.6x variable focal lens	ector (ON/OFF) 2x variable focal lens
	Focal Length	Adaptive Black Stret 3.6x variable focal lens 2.8 ~ 10 mm	ch selector (ON/OFF 2x variable focal lens 2.8 ~ 6.0 mm), Day/Night mode sel 3.6x variable focal lens 2.8 ~ 10 mm	ector (ON/OFF) 2x variable focal lens 2.8 ~ 6.0 mm
Lens	Focal Length F number	Adaptive Black Stret 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close	ch selector (ON/OFF 2x variable focal lens 2.8 ~ 6.0 mm), Day/Night mode sel 3.6x variable focal lens 2.8 ~ 10 mm	ector (ON/OFF) 2x variable focal lens 2.8 ~ 6.0 mm
Lens Angle of	Focal Length F number Focus Range	Adaptive Black Stret 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close ∞ - 1.2 m	ch selector (ON/OFF 2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close), Day/Night mode sel 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close	ector (ON/OFF) 2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close
Lens Angle of	Focal Length F number Focus Range	Adaptive Black Strei 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close ∞ - 1.2 m 73.5°(WIDE)~	ch selector (ON/OFF 2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6°(WIDE)~), Day/Night mode sei 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close 73.5°(WIDE)~	ector (ON/OFF) 2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6°(WIDE)~
Lens Angle of	Focal Length F number Focus Range Horizontal	Adaptive Black Strei 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close ∞ - 1.2 m 73.5°(WIDE)~ 20.8° (TELE)	ch selector (ON/OFF 2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6°(WIDE)~ 35.6° (TELE)), Day/Night mode sei 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close 73.5°(WIDE)~ 20.8° (TELE)	ector (ON/OFF) 2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6°(WIDE)~ 35.6°(TELE)
Lens Angle of View	Focal Length F number Focus Range Horizontal Vertical	Adaptive Black Stret 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close ∞ - 1.2 m 73.5°(WIDE)~ 20.8° (TELE) 54.4°(WIDE)~	ch selector (ON/OFF 2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6° (WIDE)~ 35.6° (TELE) 54.0° (WIDE)~ 26.7° (TELE)), Day/Night mode sei 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close 73.5°(WIDE)~ 20.8° (TELE) 54.4°(WIDE)~	2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6°(WIDE)~ 35.6°(TELE) 54.0°(WIDE)~
Lens Angle of	Focal Length F number Focus Range Horizontal Vertical	Adaptive Black Stret 3.6x variable focal lens 2.8 − 10 mm F1.3 ~ 3.1, close ∞ - 1.2 m 73.5°(WIDE)~ 20.8° (TELE) 54.4°(WIDE)~ 15.6°(TELE)	ch selector (ON/OFF 2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6° (WIDE)~ 35.6° (TELE) 54.0° (WIDE)~ 26.7° (TELE)), Day/Night mode sei 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close 73.5°(WIDE)~ 20.8° (TELE) 54.4°(WIDE)~	2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6°(WIDE)~ 35.6°(TELE) 54.0°(WIDE)~
Lens Angle of	Focal Length F number Focus Range Horizontal Vertical	Adaptive Black Strel 3.6x variable focal lens 2.8 ~ 10 mm 73.5°(WIDE)~ 20.8° (TELE) 54.4°(WIDE)~ 15.6°(TELE) Panning range: +18	ch selector (ON/OFF 2x variable focal lens 2.8 ~ 6.0 mm 72.6° (WIDE)~ 35.6° (TELE) 54.0° (WIDE)~ 26.7° (TELE) 0° ~ -140°), Day/Night mode sei 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close 73.5°(WIDE)~ 20.8° (TELE) 54.4°(WIDE)~	2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6°(WIDE)~ 35.6°(TELE) 54.0°(WIDE)~
Lens Angle of View Adjusting	Focal Length F number Focus Range Horizontal Vertical	Adaptive Black Strel 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close \sim -1.2 m 73.5°(WIDE)~20.8° (TELE) 54.4°(WIDE)~15.6°(TELE) Third grange: ±18 Tilting range: ±75°	ch selector (ON/OFF 2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6°(WIDE)~ 35.6° (TELE) 54.0°(WIDE)~ 26.7°(TELE) 0° ~ -140°), Day/Night mode sei 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close 73.5°(WIDE)~ 20.8° (TELE) 54.4°(WIDE)~	2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6°(WIDE)~ 35.6°(TELE) 54.0°(WIDE)~
Angle of View Adjusting	Focal Length F number Focus Range Horizontal Vertical J Angle	Adaptive Black Strel 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close ∞ - 1.2 m 73.5°(WIDE)~ 20.8° (TELE) 54.4°(WIDE)~ 15.6°(TELE) Panning range: ±18 Tilting range: ±18 Azimuth range: ±10 Azimuth	ch selector (ON/OFF 2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6°(WIDE)~ 35.6° (TELE) 54.0°(WIDE)~ 26.7°(TELE) 0° ~ -140°), Day/Night mode sei 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close 73.5°(WIDE)~ 20.8° (TELE) 54.4°(WIDE)~	ector (ON/OFF) 2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6°(WIDE)~ 35.6°(TELE) 54.0°(WIDE)~
Angle of View Adjusting	Focal Length F number Focus Range Horizontal Vertical J Angle	Adaptive Black Strel 3.6x variable focal lens 2.8 ~ 10 mm 73.5° (WIDE) ~ 20.8° (TELE) 54.4° (WIDE) ~ 15.6° (TELE) Panning range: ±18 Tilting range: ±10 −10 °C ~ +50 °C (1	ch selector (ON/OFF 2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6°(WIDE)~ 35.6° (TELE) 54.0°(WIDE)~ 26.7°(TELE) 0° ~ -140°), Day/Night mode sei 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close 73.5°(WIDE)~ 20.8° (TELE) 54.4°(WIDE)~	ector (ON/OFF) 2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6°(WIDE)~ 35.6°(TELE) 54.0°(WIDE)~
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Angle of View Adjusting Ambient 1 Ambient 1 Power So	Focal Length F number Focus Range Horizontal Vertical g Angle Temperature Humidity burce and bursumption	Adaptive Black Strel 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close ∞ - 1.2 m 73.5°(WIDE)~ 20.8° (TELE) 54.4°(WIDE)~ 15.6°(TELE) Panning range: ±18 Tilting range: ±10 −10 °C ~ ±50 °C (1. Less than 90 % 12 V DC, 220 mA 24 V AC 60 Hz, 2.7	ch selector (ON/OFF 2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6° (WIDE)~ 35.6° (TELE) 54.0° (WIDE)~ 26.7° (TELE) 0° ~ -140° 0° 4 °F ~ 122 °F)), Day/Night mode sei 3.6x variable focal lens 2.8 ~ 10 mm F1.3 ~ 3.1, close 73.5°(WIDE)~ 20.8° (TELE) 54.4°(WIDE)~ 15.6°(TELE)	2x variable focal lens 2.8 ~ 6.0 mm F1.4 ~ 1.8, close 72.6°(WIDE)~ 35.6°(TELE) 54.0°(WIDE)~

MAJOR OPERATING CONTROLS & TERMINALS



APPEARANCE

Unit: mm (inches)



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.

Panasonic System Solutions Company

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Security Systems

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