

TD0ECS240L2A

2MP Full-color HDCVI Eyeball Camera



- · 24/7 color imaging, Max. 30 fps@1080p
- · 40 m illumination distance
- · Super Adapt, 130 dB true WDR, 3D NR
- · Built-in mic (with noise reduction algorithm)
- · 2.8 mm fixed lens
- · CVI/CVBS/AHD/TVI switchable
- · IP67, DC 12 V













System Overview

TDOECS240L2A is suitable for users who requires high quality monitoring products at a reasonable price. It is cost effective and offers high performance, which makes it an ideal choice for residential and small-medium business applications. This series offers an option of a wide range of technologies such as Full-color and Starlight, providing various solutions for different scenarios.

Functions

Full-color

Full-color camera adopts large aperture lens and high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera provides 24/7 color monitoring that collects clear and vivid information, significantly increasing probability of gathering valid human, vehicle, and event evidence that can be used for further intelligent analysis.

Broadcast-quality Audio

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise, guaranteeing the quality and effectiveness of collected audio information.

Wide Dynamic Range

With advanced Wide Dynamic Range (WDR) technology, the HDCVI camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Super Adapt

Embedded with intelligent algorithm, for changing external environment, the camera can automatically adjust parameters to present the optimal image, and it solves the trouble of configuration.

Advanced 3DNR

3D NR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3DNR effectively decreases the band width and saves the storage space.

Warm Supplemental lights

With warm supplemental LED lights, the camera is able to provide a colorful and vivid image even in total darkness. By default, the camera is set to smart light mode, in which the camera can automatically adjust the exposure time and light sensitivity simultaneously to avoid overexposure of the objects in the image center.

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the XVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700m transmission for $2 \mbox{MP/5MP/8MP}$ HD video via coaxial cable, and up to 300m via UTP cable.

Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical S	pecification				
Camera					
Image Sensor		1/2.8" CMOS			
Max. Resolution		1920 (H) × 10	080 (V)		
Pixel		2MP			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s			
S/N Ratio		> 65 dB			
Min. Illumination		0.001 Lux/F1.6, 30IRE, 0 Lux LED on			
Illumination Distance		40 m (131.2 ft)			
Illuminator On/Off Control		Auto; manual			
Illuminator Number		2	2		
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Fixed lens	Fixed lens		
Mount Type		M12			
Focal Length		2.8 mm			
Max. Aperture	2	F1.6			
Field of View		2.8 mm: H: 107°; V: 56°; D: 127°			
Iris Type		Fixed iris			
Close Focus Distance		2.8 mm: 0.7 m (2.3 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	43.9 m (144 ft)	17.5 m (57.4 ft)	8.8 m (28.9 ft)	4.4 m (14.4 ft)

Video

Frame Rate	CVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; AHD: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; TVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; CVBS: PAL: 960 × 576H; NTSC: 960 × 480H
Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)
BLC	BLC/WDR/HLC
WDR	130 dB
White Balance	Auto; Area WB

Gain Control	Auto; manual
Noise Reduction	3D NR
Smart Light	Yes
Mirror	Off/On
Privacy Masking	Off/On (8 area, rectangle)
Certifications	
	CE (EN55032, EN55024, EN50130-4)

FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)

UL (UL60950-1+CAN/CSA C22.2 No.60950-1)

Port

Certifications

Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Audio Input	One channel built-in mic

Power

Power Supply	12 V ±30% DC
Power Consumption	Max 5.1 W (12 V DC, LED on)

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °F); < 95% (non-
	condensation)
Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F); < 95% (non- condensation)
Protection Grade	IP67

Structure

Casing	Metal throughout the whole casing
Camera Dimensions	ф106.0 mm × 93.6 mm (ф4.17" × 3.69")
Net Weight	0.46 kg (1.01 lb)
Gross Weight	0.58kg (1.28 lb)



Accessories

Optional:







PFA130-E Water-proof Junction Box



PFB205W Wall Mount Bracket



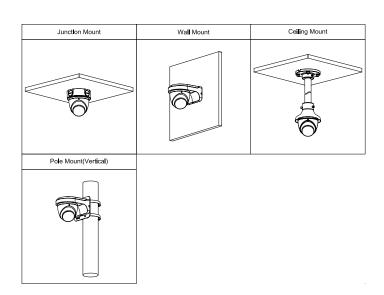
PFA106+PFB220C Adapter Plate of Mini Dome & Eyeball Camera + Ceiling Mount Bracket of Mini Dome & Eyeball Camera



PFA152-E+PFB205W Pole Mount Bracket + Wall Mount Bracket



PFM820 UTC Controller



Dimensions (mm [inch])

