

TDOECS220LIR2A

2MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera



- · Max. 30 fps@1080p.
- · 3D NR.
- · Smart Dual Light.
- \cdot 20 m illumination distance
- · Super Adapt.
- \cdot Built-in mic.
- \cdot 2.8 mm fixed lens
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC



Functions

Smart Dual Light

With its smart dual light mechanism, the camera automatically turns on the white light when Perimeter Protection/SMD Plus function of AI XVR detects a target in the rule area to capture clear, vivid images. When the target leaves the rule area, the camera automatically switches over from the white light to the IR light to significantly reduce light pollution.

Broadcast-quality Audio

Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence.

Super Adapt

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

Advanced 3DNR

TD's advanced 3DNR technology reduces image noise with little to no impact on image sharpness, especially in poor lighting conditions. It detects the noise, and compares the sequential frames to effectively reduce the noise. It also makes efficient use of bandwidth, saving on storage space.

Protection (IP67, Wide Voltage)

IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes. Wide voltage: The camera has ±30% input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals (video, audio*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and quick to install.

* Audio input is available for select HDCVI camera models.

Long Distance Transmission

HDCVI technology provides long distance transmission in real time without transmission loss. It supports transmission distances up to 700 m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables. The results were obtained and verified through rigorous testing in TD's test laboratory.

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Technical Specification						
Camera						
Image Sensor		2 MP CMOS				
Max. Resolution		1920 (H) × 1080 (V)				
Scanning System		Progressive				
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s				
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>65 dB				
Illumination Distance		IR: 20 m (65.62 ft) Warm light: 20 m (65.62 ft)				
Illuminator On/Off Control		Auto				
Illuminator Number		1 (Warm light);1 (IR light)				
Angle Adjustment		Pan: 0°−360° Tilt: 0°−78° Rotation: 0°−360°				
Lens						
Lens Type		Fixed-focal				
Auto Focus		No				
Lens Mount		M12				
Focal Length		2.8 mm				
Max. Aperture		F2.0				
Field of View		2.8 mm: H: 102°; V: 60°; D: 129°				
Iris Control		Fixed				
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.8 mm	41.1 m (135.83 ft)	16.5 m (42.13 ft)	8.3 m (27.23 ft)	4.1 m (13.45 ft)	

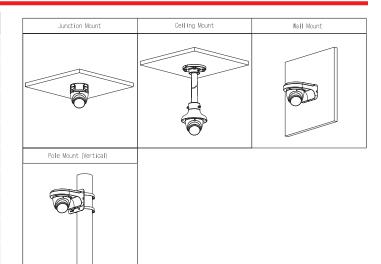
White Balance	Auto;Area white balance			
Gain Control	Auto			
Noise Reduction	3D NR			
Illumination Mode	Smart IR&WL WL Mode; IR Mode			
Mirror	Yes			
Privacy Masking	Off/On (8 areas, rectangle)			
Certification				
Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B; UL: UL62368-1 + CAN/CSA C22.2 No. 62368-1-14			
Port				
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port			
Audio Input	1 channel			
Power				
Power Supply	12 VDC ± 30%			
Power Consumption	Max 2.6W (12 VDC, IR on)			
Environment				
Operating Temperature	–40 °C to +60 °C (–40 °F to +140 °F)			
Operating Humidity	<95% (RH), non-condensing			
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Storage Humidity	<95% (RH), non-condensing			
Protection	IP67			
Structure				
Casing Material	Metal			
Product Dimensions	φ94.0 mm × 85.7 mm (φ3.70" × 3.37")			
Net Weight	0.30 kg (0.66 lb)			
Gross Weight	0.42 kg (0.93 lb)			
Installation	Wall mount; ceiling mount; vertical pole mount			

Video

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: 960H; NTSC: 960H
Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Day/Night	Auto(ICR)/Color/B/W
BLC	BLC; HLC; DWDR
WDR	DWDR

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Ordering Information Type Model Description ZMP camera TDOECS220LIR2A 2MP HDCVI Smart Dual Light Eyeball Camera, PAL, NTSC Accessories (Optional) PFA13A-E Junction Box PFA152-E Pole Mount Bracket Image: PFA152-E Pole Mount Bracket Image: PFA152-E Image: PFA152-E



Dimensions (mm [inch])

Accessories

Optional:



Junction Box





PFA152-E Pole Mount Bracket

