XVI-EB1509T-ILM 2.8



5MP Smart Dual Illuminators Eyeball Camera



- The parameters and datasheets below can only be applied to 1509T-ILM series.
- * In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000001.0.R.200908 or later version.

System Overview

The Lite Series is a great choice for consumers looking for high quality monitoring products at a reasonable price. Its low cost and high performance make it ideal for residential areas and SMB solutions. This series is equipped with a wide range of technologies, such as full-color and starlight, providing various solutions for different scenarios.

Functions

Smart Dual Illuminators

With its smart dual illumination mechanism, the camera automatically turns on the white light when Perimeter Protection/SMD Plus function of AI XVR detects a target in therule 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 illuminator to significantly reduce light pollution.

Wide Dynamic Range

With its advanced Wide Dynamic Range technology (WDR), the camera captures highly detailed images and produces high-definition recordings in high-contrast lighting conditions, and in scenes with backlighting or shadows.

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.

- Max 25 fps@5MP (16:9 video output).
- 120 dB true WDR, 3D NR.
- · Smart Dual Illuminators.
- 40 m illumination distance.
- · Super Adapt.
- · Built-in MIC.
- · 3.6 mm fixed lens (2.8 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.















Advanced 3DNR

Blue | line 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 $\pm 30\%$ 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 Dahua's test laboratory.



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5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080);

Auto (ICR)/Color/B/W

960H (960 × 576/960 × 480)

Resolution

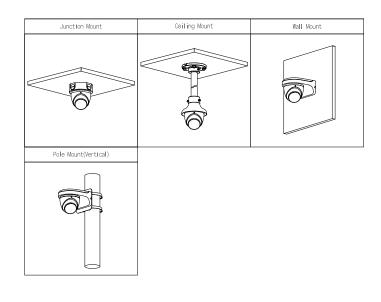
Day/Night

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Technical Specification							BLC	BLC; HLC; WDR; HLC-Pro
Camera							WDR	120 dB
Pixel		5MP					White Balance	Auto; Area white balance
Image Sensor		5MP CMOS					Gain Control	Auto; manual
Max. Resolution		2880 (H) × 1620 (V)					Noise Reduction	3D NR
Scanning System		Progressive					Defog	Electronic defog
Electronic Shutter Speed		PAL: 1/3 s-1/100000 s NTSC: 1/4 s-1/100000 s					Digital Zoom	4×
Min Illumination		0.001 lux@F1.0 (Color, 30 IRE) 0.0001 lux@F1.0 (B/W, 30 IRE)					Mirror	Yes
Min. Illumination		0 lux (Illuminator on)					Privacy Masking	Off/On (8 areas, rectangle)
S/N Ratio		>65dB					Illumination Mode	Smart IR&WL WL Mode; IR Mode
Illumination Distance		IR: 40 m (131.23 ft) Warm light: 40 m (131.23 ft)					Certifications	
Illuminator On/Off Control		Auto; manual						CE (EN55032:2015, EN61000-3-2:2014, EN61000-3-3:2013, EN55024:2010+A1:2015, EN55035:2017, EN50130-4:2011+A1:2014, EN62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL62368-1+CAN/CSA C22.2 No.62368-1-14)
Illuminator Number		2 (IR light)					Certifications	
		2 (Warm light)						
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78°					Port	
Lama		Rotation: 0°–360°					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Lens		Fixed feed					Audio Input	One channel built-in MIC
Lens Type Mount Type		Fixed-focal M12					Power	
Mount Type Focal Length		2.8 mm; 3.6					Power Supply	12 VDC ± 30%
Focal Length May Aperture		F1.0					Power Consumption	Max 5.7 W (12 VDC, LED on)
Max. Aperture		2.8 mm: H: 111°; V: 57°; D: 131°					Environment	
Field of View		3.6 mm: H: 89°; V: 47°; D: 104°					Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °F)
Iris Control		Fixed					Operating Humidity	<95% (RH), non-condensing
Close Focus Dist	Close Focus Distance		2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft)				Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F)
DORI distance	Lens	Detect	Observe	Recognize	Identify		Protection	IP67
	2.8 mm	66.0 m (216.54 ft)	26.4 m (86.61 ft)	13.2 m (43.31 ft)	6.6 m (21.65 ft)		Structure	
	3.6 mm	78.0 m	31.2 m	15.6 m	7.8 m		Casing Material	Metal
Video		(255.91 ft)	(102.36 ft)	(51.18 ft)	(25.59 ft)		Product Dimensions	Φ106.0 mm × 93.6 mm (Φ4.17" × 3.69")
Video		CVI:					Packaging Dimensions	148 mm × 139 mm × 137 mm (5.83" × 5.47" × 5.39")
Video Frame Rate		PAL: 5M@25 fps; 4M@25 fps; 1080p@25 fps NTSC: 5M@25 fps; 4M@30 fps; 1080p@30 fps; AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps; TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps; CVBS: PAL: 960H; NTSC: 960H					Net Weight	0.49 kg (1.08 lb)
							Gross Weight	0.66 kg (1.46 lb)
							Installation	Wall mount; ceiling mount; vertical pole mount



5MP Smart Dual Illuminators Eyeball Camera

Ordering Information							
Туре	Part Number	Description					
5MP Camera	XVI-EB1509T-ILM 2.8	5MP Smart Dual Illuminators Eyeball Camera, PAL					
SIMP Calliela	XVI-EB1509T-ILM 2.8	5MP Smart Dual Illuminators Eyeball Camera, NTSC					
	PFA130-E	Water-proof Junction Box					
	PFB204W	Wall Mount Bracket					
Accessories	PFA106 + PFB220C	Adapter Plate of Mini Dome & Eyeball Camera + Ceiling Mount Bracket of Mini Dome & Eyeball Camera					
(Optional)	PFA152-E + PFB204W	Pole Mount Bracket + Wall Mount Bracket					
	PFM800-E	Passive HDCVI Balun					
	PFM321D	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					



Dimensions (mm[inch])

Accessories

Optional:



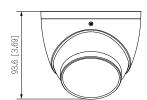
PFA130-E Water-proof Junction Box

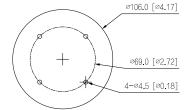


PFB204W Wall Mount Bracket



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







PFA152-E Pole Mount