

DH-HAC-HDW2249TLM-A-LED

2MP Full-color HDCVI Eyeball Camera





- * The parameters and datasheets below can only be applied to 2249-S2 series.
- · 24/7 color imaging, Max. 30 fps@1080p
- · 20 m illumination distance
- · Super Adapt, 120 dB true WDR, 3D NR
- · Built-in mic
- · 3.6 mm fixed lens (2.8 mm optional)
- · CVI/CVBS/AHD/TVI switchable
- · IP67, DC 12 V













System Overview

Pro Series is a perfect choice for SMB solutions and projects where both high reliability and flexibility are required. All cameras are equipped with Starlight feature, 120dB true WDR and 3DNR, and are able to provide clear images and rich details even under tough lighting conditions.

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.

*This function is available for select models.

Wide Dynamic Range

With advanced Wide Dynamic Range (WDR) technology, Dahua 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.

Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's 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 coloful 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 overexposureing 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.

* Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

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

*Actual results verified by real-scene testing in Dahua's test laboratory.

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 works normal after soaking in 1 m deep water for 30 minutes.

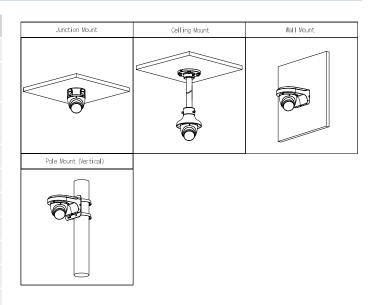
Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification							Noise Reduction	3D NR
Image Sensor							Smart Light	Yes
Max. Resolution	on	1920(H) × 1080(V)					Mirror	Off/On
Pixel		2MP					Privacy Masking	Off/On (8 area, rectangle)
Scanning System		Progressive					Certifications	
Electronic Shutter Speed		PAL: 1/3 s-1/100,000 s NTSC: 1/4 s-1/100,000 s					Certifications	CE (EN55032, EN55024, EN50130-4, EN62368-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-201- UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
S/N Ratio		> 65 dB						
Min. Illuminat	ion	0.0002 Lux/F1.0, 0 Lux White Light on					Port	
Illumination D	istance	20 m (65.6 ft)					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)
Illuminator Or	/Off Control	Auto; manual					Audio Input	One channel built-in mic
Illuminator Number		1					Power	
Illuminator Number		1					Power Supply	12V ±30% DC
Pan/Tilt/Rotat	ion Range	Pan: 0°–360° Tilt: 0°–78°	Pan: 0°–360°				Power Consumption	Max 4.2W (12V DC, warm light on)
Pan/Tilt/Rotation Range		Rotation: 0°–360°"					Environment	
Lens							Operating Temperature	-40°C to +60°C (–40°F to 140°F) ; < 95% (noncondensation)
Lens Type Mount Type		Fixed lens M12					Storage Temperature	-40°C to +60°C (–40°F to 140°F) ; < 95% (noncondensation)
Focal Length		2.8 mm; 3.6 mm					Protection Grade	IP67
Max. Aperture		F1.0					Structure	
·		2.8 mm: H: 106°; V: 55°; D: 125°					Casing	Metal throughout the whole casing
Field of View		3.6 mm: H: 84°; V: 44°; D: 99°"					Camera Dimensions	φ94 mm × 78 mm (φ3.7" × 3.1")
Iris Type		Fixed iris					Net Weight	0.34 kg (0.75 lb)
Close Focus Distance		2.8 mm: 1 m (3.3 ft) 3.6 mm: 1.7 m (5.6 ft)					Gross Weight	0.48 kg (1.06 lb)
DORI Distance	Lens	Detect	Observe	Recognize	Identify			
	2.8 mm	45.5 m (149.3 ft)	18.2 m (59.7 ft)	9.1 m (29.9 ft)	4.6 m (15.1 ft)			
	3.6 mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)			

Frame Rate	CVI: PAL: 1080P@25fps NTSC: 1080P@30fps AHD: PAL: 1080P@25fps NTSC: 1080P@30fps TVI: PAL: 1080P@25fps NTSC: 1080P@30fps CVBS: PAL: 960H NTSC: 960H		
Resolution	1080P (1920×1080); (960H×960× 576/960×480)		
BLC	BLC/HLC/WDR/HLC-Pro		
WDR	120dB		
White Balance	Auto; Area white balance		
Gain Control	Auto; manual		

Video

Ordering Information								
Туре	Part Number	Description						
2MD Communication	DH-HAC- HDW2249TLMP-A-LED	2MP Full-color HDCVI Eyeball Camera, PAL						
2MP Camera	DH-HAC- HDW2249TLMN-A-LED	2MP Full-color HDCVI Eyeball Camera, NTSC						
	PFA13A-E	Junction box						
	PFB205W+PFA152-E	Pole Mount Bracket						
	PFB205W	Wall Mount						
Accessories	PFA106+PFB220C	Ceiling Mount						
	PFM800-E	Passive HDCVI Balun						
	PFM321	12V 1A Power Adapter						
	PFM904	Integrated Mount Tester						



Accessories

Dimensions (mm[inch])

Optional:



PFA13A-E Junction Box



PFB205W+PFA152-E Pole Mount Bracket



PFB205W Wall Mount



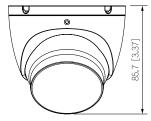
PFA106+PFA130-E Pole Mount Bracket + Water-proof Junction Box

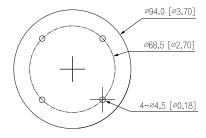


PFM800-E Passive HDCVI Balun



PFM321 12V 1A Power Adapter







PFM904 Integrated Mount Tester