

DH-HAC-HDW2509T-A-LED

5MP Full-color HDCVI Eyeball Camera





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.

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.

Super Adapt

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

- * 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.
- · Max 25 fps@5MP (16:9 video output)
- 120 dB true WDR, 3D NR
- 24/7 color imaging
- · 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

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.

Smart Illumination

The camera is designed with IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

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.

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Technical Specification						Gain Control	Auto; manual
Camera					Noise Reduction	3D NR	
Image Sensor		5MP CMOS				Smart Illumination	Yes
Max. Resolution		2880 (H) × 1620 (V)				Defog	Electronic defog
Pixel		5MP				Digital Zoom	4×
Scanning System		Progressive				Mirror	Off/On
Electronic Shutter Speed		PAL: 1/3 s-1/100,000 s NTSC: 1/4 s-1/100,000 s				Privacy Masking	Off/On (8 area, rectangle)
S/N Ratio		> 65 dB				Certifications	
Min. Illumination		0.0002 Lux/F1.0, 0 Lux warm light on				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)
Illumination Distance		40 m (131.2 ft)				Port	,
Illuminator On/Off Control Illuminator Number		Auto; manual 2 (Warm light)				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)
Pan/Tilt/Rotation Range		Pan: 0°-360°				Audio Input	One channel built-in mic
		Tilt: 0°–78° Rotation: 0°–360°				Power	
Lens						Power Supply	12V ±30% DC
Lens Type		Fixed-focal				Power Consumption	Max 6.4 W (12 VDC, warm light on)
Mount Type		M12				Environment	
Focal Length		2.8 mm; 3.6	mm			Operating Temperature	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F}$); < 95% (non-condensation)
Max. Aperture		F1.0 2.8 mm: H: 1	11°; V: 57°; D:	131°		Storage Temperature	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F}$); < 95% (non-condensation)
Field of View		3.6 mm: H: 8	8°; V: 46°; D: 1	L04°		Protection Grade	IP67
Iris Type		Fixed iris	(4.0.5)			Structure	
Close Focus Distance		2.8 mm: 1.5 m (4.9 ft) 3.6 mm: 2.3 m (7.5 ft)				Casing	Metal throughout the whole casing
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Camera Dimensions	φ106.0 mm × 93.6 mm (φ4.17" × 3.69")
	2.8 mm	66 m (216.5 ft)	26.4 m (86.6 ft)	13.2 m (43.3 ft)	6.6 m (21.7 ft)	Net Weight	0.49 kg (1.1 lb)
	3.6 mm	80 m (262.5 ft)	32 m (105 ft)	16 m (52.5 ft)	8 m (26.2 ft)	Gross Weight	0.64 kg (1.4 lb)
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Video

	CVI:	
	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;	
Frame Rate	NTSC: 4M@30 fps	
rialle Nate	TVI:	
	PAL: 4M@25 fps;	
	NTSC: 4M@30 fps	
	CVBS:	
	PAL: 960H;	
	NTSC: 960H	
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 ×	
Resolution	1080); 960H (960 × 576/960 × 480);	
BLC	BLC/HLC/WDR/HLC-Pro	
WDR	120 dB	
White Balance	Auto; Area white balance	

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Ordering Information							
Туре	Model	Description					
5MP Camera	DH-HAC-HDW2509TP- A-LED	5MP Full-color HDCVI Eyeball Camera, PAL					
Sivir Calliera	DH-HAC-HDW2509TN- A-LED	5MP Full-color HDCVI 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					
	PFM800-4K	1-CH Passive Video Balun					
	PFM321	12 VDC 1A Power Adapter					
	PFM904	Integrated Mount Tester					

Junction Mount	Ceiling Mount	Wall Mount
		8
Pole Mount(Vertical)		

Dimensions (mm[inch])

Accessories

Optional:



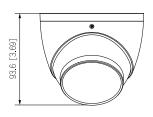
PFA130-E Water-proof Junction Box

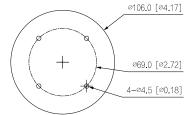


PFB204W Wall Mount Bracket



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









PFA152-E+PFB204W Pole Mount Bracket + Wall Mount Bracket



PFM800-4K 1-CH Passive Video Balun



12 VDC 1A Power Adapter



PFM904 Integrated Mount Tester