

DH-HAC-HDW1249X-IL-A-PRO

2MP WizColor HDCVI Fixed-focal Eyeball Camera





Series 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

WizColor Technology

Dahua WizColor Technology seamlessly combines with the powerful AI-ISP and large aperture in cameras. This unique integration enables cameras to effortlessly capture high-quality images with vibrant colors during nighttime scenarios, ensuring fine details are preserved and minimizing motion blur. Unlike traditional self-illuminating cameras, Dahua WizColor Technology maximizes the utilization of weak light sources, such as moonlight and city lights reflected in the sky, delivering captivating full-color images of the entire scene. It also ensures that monitoring distances are not compromised at night due to limited illumination ranges, facilitating full-color image capture even over long distances.

AI-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

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.

- * In order to use the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.000004.1.R.220323 or later version.
- . Max. 30 fps@1080p
- AI-ISP.
- . Distortion Correction.
- · Smart Dual Light.
- · Smart Light+.
- . 50 m illumination distance
- · Super Adapt, 3D NR
- . Built-in Dual Mic
- · Quick-to-install eyeball saves installation time.
- . 3.6 mm fixed lens (2.8 mm optional)
- . CVI/CVBS/AHD/TVI switchable
- . IP67, 12 VDC















Distortion Correction

With advanced distortion correction algorithm, Dahua Distortion Correction corrects the image distortion in both horizontal and vertical directions to be consistent with the actual situation.

Smart Light+

Equipped with advanced LEDs and beam processing technology, the camera effectively reduces interference of stray light, ensuring concentrated illumination within the lens's field of view. This allows the camera to easily produce clear images that reveal the fine details of targets even in low light conditions.

Built-in Dual Mic

Equipped with Dual Mic audio processing technology combined with intelligent noise reduction algorithms, HDCVI cameras effectively suppress environmental background noise and enhance audio clarity and pickup distance, ensuring the authenticity and reliability of the captured audio information. This technology protects the integrity of audio evidence in video surveillance, making it particularly suitable for scenes that require both audio and videos for verification.

Easy Installation

HDCVI eyeball comes with a quick-to-install pedestal, which makes it easier to install than conventional eyeballs and reduces cost on time and labor.

Protection

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.

1080p (1920 × 1080); 960H (960 × 576/960 × 480)

Video Frame Rate

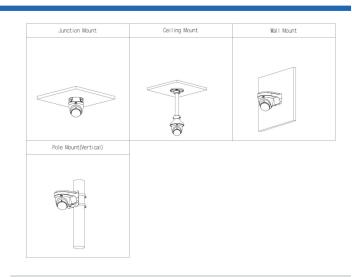
Resolution

Technical Specification							Day/Night	Auto(ICR)/Color/B/W
Camera							WDR	DWDR
Image Sensor		2 MP CMOS					White Balance	Auto
Max. Resolution		1920 (H) × 1080 (V)					Gain Control	Auto
Scanning System		Progressive					Noise Reduction	3D NR
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s					Motion Detection	Yes (It needs to be controlled through the XVR)
		0.0001 lux@F1.0 (Color, 30 IRE)					Illumination Mode	Yes (It needs to be controlled through the XVR)
Min. Illumination		0.00001 lux@F1.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Mirror Certification	Yes (It needs to be controlled through the XVR)
S/N Ratio		>65 dB					Certification	CE-LVD: EN 62368-1;
Illumination Distance		50 m (164.04 ft)					Certifications	CE-EMC: EN 55032; EN 55035;
Illuminator On/Off Control		Auto/Manual					Audio	
Illuminator Number		4 (Multi-core light)					Built-in Mic	Yes, built-in dual Mic
Angle Adjustment		Pan: 0°–360°					Camera Audio	CVI
		Tilt: 0°–78° Rotation: 0°–360°					Pick-up Distance	12 m (39.37 ft)
Lens							Port	
Lens Type		Fixed-focal					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)
Lens Mount		M12					Power	
Focal Length		2.8 mm; 3.6 mm					Power Supply	12 VDC (±30%)
Max. Aperture		F1.0					Power Consumption	Max 5.6 W (12 VDC, LED on)
Field of View		2.8 mm: H: 101.8°; V: 54.4°; D: 122.1° 3.6 mm: H: 84.2°; V: 45.3°; D: 98.9°					Environment	
Iris Control		Fixed					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Close Focus Distance		2.8 mm: 1.1 m (3.61 ft)					Operating Humidity	<95% (RH), non-condensing
close rocus distance		3.6 mm: 1.6 m (5.25 ft)					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	Lens	Detect	Observe	Recognize	Identify		Storage Humidity	<95% (RH), non-condensing
	2.8 mm	45.6 m (149.61 ft)	18.2 m (59.71 ft)	9.1 m (29.86 ft)	4.6 m (15.09 ft)		Protection	IP67
	3.6 mm	55.6 m	22.2 m	11.1 m	5.6 m		Anti-corrosion Level	Basic Protection
DORI Distance		(182.41 ft)	(72.83 ft)	(36.42 ft)	(18.37 ft)		Structure	
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the						Casing Material	Dome (metal + plastic) + plastic enclosure
	video to disti	nguish persons	or objects wi	thin a covered	d area.		Product Dimensions	Φ109.9 mm × 102.2 mm (Φ4.33" × 4.02")
	The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.						Net Weight	0.33 kg (0.73 lb)
							Gross Weight	0.45 kg (0.99 lb)
Video							Installation	Wall mount; ceiling mount; vertical pole mount
		CVI: PAL: 1080p@						

NTSC: 1080p@30 fps; AHD:	Ordering Information				
PAL: 1080p@25 fps; NTSC: 1080p@30 fps;	Туре	Model	Description		
TVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps;	HDCVI CAMERA	DH-HAC-HDW1249XN-IL-A-PRO	2MP WizColor HDCVI Fixed- focal Eyeball Camera,NTSC		
CVBS; PAL: 960H; NTSC: 960H	TIDEVI CAIVIENA	DH-HAC-HDW1249XP-IL-A- PRO	2MP WizColor HDCVI Fixed- focal Eyeball Camera,PAL		

Lite Series | DH-HAC-HDW1249X-IL-A-PRO

Туре	Model	Description
	DH-PFA109	Mount Adapter
	DH-PFB220C	Ceiling Mount Bracket
	DH-PFB305W	Wall Mount Bracket
	DH-PFA151	Corner Mount Bracket
	DH-PFA150	Pole Mount Bracket
	DH-PFB2203W	Wall Mount Bracket
Accessories (Optional)	DH-PFA156	Pole Mount Bracket
	DH-PFA13G	Junction Box
	DH-PFM800-E	1 Channel Passive HDCVI Balun
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM904	Integrated Mount Tester



Dimensions (mm[inch])

mm [inch]

Accessories

Optional:



DH-PFA109 Mount Adapter



DH-PFA13G Junction Box



DH-PFA150 Pole Mount Bracket



DH-PFA151 Corner Mount Bracket



DH-PFA156 Pole Mount Bracket



DH-PFB2203W Wall Mount Bracket



DH-PFB220C Ceiling Mount Bracket



DH-PFB305W Wall Mount Bracket



DH-PFM320D-EN DC12V2A power adapter



DH-PFM321-EN DC12V1A power adapter



DH-PFM800-E 1 Channel Passive HDCVI Balun



PFM904 Integrated Mount Tester

