

# DH-HAC-HDW1249X-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.

#### **Full-color**

With its advanced image processing algorithm and capability to absorb large quantities of light, the camera provides 24/7 color monitoring that collects clear and highly detailed information, significantly increasing the reliability of the human and vehicle images that are collected as evidence for intelligent analysis.

- . 24/7 color imaging, Max. 30 fps@1080p
- · AI-ISP.
- . Distortion Correction.
- · 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.

Technical Specification				Day/Night	Color					
Camera							WDR	DWDR		
Image Sensor		2 MP CMOS					White Balance	Auto		
Max. Resolut	ion	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	Smart Light		
Min. Illumination		0 lux (Illuminator on)					Mirror	Yes (It needs to be controlled through the XVR)		
S/N Ratio		>65 dB					Certification			
Illumination [	Distance	50 m (164.04 ft)					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035;		
Illuminator O	n/Off Control	Auto					Audio			
Illuminator N	umber	4 (Warm light)					Built-in Mic	Yes, built-in dual Mic		
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78°					Camera Audio	CVI		
, angle , tajustinent		Rotation: 0°–360°					Pick-up Distance	12 m (39.37 ft)		
Lens							Port			
Lens Type		Fixed-focal					Video output choices of CVI/TVI/AHD/CVRS h			
Lens Mount		M12					Video Output port (DIP Switch)			
Focal Length		2.8 mm; 3.6 mm					Power			
Max. Apertur	re	F1.0					Power Supply	12 VDC (±30%)		
Field of View		2.8 mm: H: 101°; V: 53.4°; D: 119.5° 3.6 mm: H: 81.5°; V: 44.3°; D: 95.7°					Power Consumption	Max 5.6 W (12 VDC, LED on)		
Iris Control		Fixed					Environment			
		2.8 mm: 1.1 m (3.61 ft)					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Close Focus [	Distance	3.6 mm: 1.7 m (5.58 ft)					Operating Humidity	<95% (RH), non-condensing		
	Lens	Detect	Observe	Recognize	Identify		Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
	2.8 mm	47.1 m	18.9 m	9.4 m	4.7 m		Storage Humidity	<95% (RH), non-condensing		
	2.0 111111	( 154.53 ft) ( 62.03	( 62.01 ft)	( 30.84 ft)	( 15.42 ft)		Protection	IP67		
DORI Distance	3.6 mm	55.7 m ( 182.74 ft)	22.3 m ( 73.16 ft)	11.1 m ( 36.42 ft)	5.6 m ( 18.37 ft)		Anti-corrosion Level	Basic Protection		
	*DORI (Detec	ct, Observe, Re	cognize, Ident	rify) is a stand	ard system		Structure			
		*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function					Casing Material	Dome (metal + plastic) + plastic enclosure		
	The numbers						Product Dimensions	Φ109.9 mm × 102.2 mm (Φ4.33" × 4.02")		
		or intelligent function distances, refer to installation sioning manual/project design tool.					Net Weight	0.33 kg (0.73 lb)		
Video							Gross Weight	0.45 kg (0.99 lb)		
		CVI:					Installation	Wall mount; ceiling mount; vertical pole mount		
		PAL: 1080p@25 fps; NTSC: 1080p@30 fps;								

	NTSC: 1080p@30 tps;			
	AHD: PAL: 1080p@25 fps;	Ordering Informatio	n	
Video Frame Rate	NTSC: 1080p@30 fps; TVI:	Туре	Model	Description
	PAL: 1080p@25 fps; NTSC: 1080p@30 fps; CVBS:	HDCVI CAMERA	DH-HAC-HDW1249XN-A- PRO	2MP WizColor HDCVI Fixed- focal Eyeball Camera,NTSC
	PAL: 960H; NTSC: 960H	TIDEVI CAIVILITA	DH-HAC-HDW1249XP-A- PRO	2MP WizColor HDCVI Fixed- focal Eyeball Camera,PAL

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

Resolution

# Lite Series | DH-HAC-HDW1249X-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-PFA156	Pole Mount Bracket	
Accessories (Optional)	DH-PFB2203W	Wall 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	

Junction Mount	Ceiling Mount	Wall Mount
		50
Pole Mount(Vertical)		
5		

# 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

