

# DH-HAC-HDW1239T-IL-A

# 2MP Smart Dual Illuminators Eyeball Camera



### **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**

#### **Full-color**

With its advanced image processing algorithm and capability to absorb large quantities of light, the camera provides colorful 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.

#### **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.

#### **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.

#### **Super Adapt**

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

#### **Advanced 3DNR**

Dahua's 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.

- \* The parameters and datasheets below can only be applied to 1239-IL series.
- · Smart Dual Illuminators
- Max. 30 fps@1080p
- 40 m illumination distance
- · Super Adapt
- 130 dB true WDR, 3D NR
- · Built-in MIC (-A)
- · 3.6 mm fixed lens (2.8 mm optional)
- · CVI/CVBS/AHD/TVI switchable
- IP67, 12 VDC













#### **Smart Dual Illumination**

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.

#### **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.

#### 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.

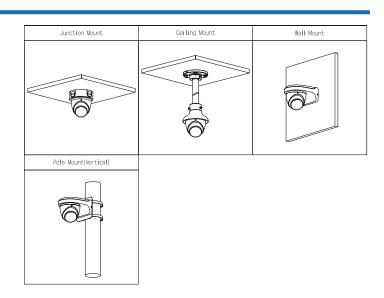
#### **Long Distance Transmission**

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.

Technical	Specification	on					Day/Night	Auto (ICR)/Color/B/W
Camera							BLC	BLC; HLC; WDR
Pixel		2 MP					WDR	130 dB
Image Sensor		2 MP CMOS					White Balance	Auto; Area white balance
Max. Resolution		1920 (H) × 1080 (V)					Gain Control	Auto/Manual
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					Smart Illumination	Yes
Min. Illumination		0.001 lux@F1.6 (Color, 30 IRE)					Mirror	Off/On
		0.0001 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Privacy Masking	Off/On (8 areas, rectangle)
S/N Ratio		>65 dB					Illuminator	Smart IR&WL WL Mode; IR Mode
Illumination Distance		IR: 40 m (131.23 ft) Warm light: 40 m (131.23 ft)					Certification	
Illuminator On/Off Control		Auto/Manual					Certifications	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)
Illuminator Number		2 (IR light)						
		2 (Warm light)						FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL62368-1+CAN/CSA C22.2 No.62368-1-14)
		Pan: 0°-360°					Port	
Pan/Tilt/Rotation Range		Tilt: 0°–78° Rotation: 0°–360°					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Lens		- · · ·					Audio Input	One channel built-in MIC (-A)
Lens Type		Fixed-focal					Power	
Lens Mount		M12					Power Supply	12 VDC ± 30%
Focal Length	Focal Length		2.8 mm				Power Consumption	Max 4.0 W (12 VDC, LED on)
		3.6 mm					Environment	
Max. Aperture		F1.6					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Field of View		2.8 mm: H: 107°; V: 56°; D: 127°					Operating Humidity	<95% (RH), non-condensing
		3.6 mm: H: 86°; V: 46°; D: 101°					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Iris Control		Fixed					Protection	IP67
Close Focus Distance		2.8 mm: 0.7 m (2.29 ft)					Structure	
		3.6 mm: 1.1 r					Casing Material	Metal
DORI Distance	Lens	Detect 42.2 m	Observe 16.9 m	Recognize 8.4 m	Identify 4.2 m		Product Dimensions	Φ106.0 mm × 93.6 mm (Φ4.17" × 3.69")
	2.8 mm	(138.45 ft)	(55.45 ft)	(27.56 ft)	(13.78 ft)	'8 ft) m	Packaging Dimensions	148 mm × 139 mm × 137 mm (5.83" × 5.47" × 5.39")
	3.6 mm	53.7 m (176.18 ft)	21.5 m (70.54 ft)	10.7 m (35.10 ft)	5.4 m (17.72 ft)		Net Weight	0.46 kg (1.01 lb)
Video						Gross Weight	0.64 kg (1.41 lb)	
Video Frame Rate		CVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; AHD: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; TVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; CVBS: PAL: 960 × 576H; NTSC: 960 × 480H					Installation	Wall mount; ceiling mount; vertical pole mount
Resolution		1080p (1920 × 1080); 960H (960 × 576/960 × 480)						
		,, (===================================						

# Lite Series | DH-HAC-HDW1239T-IL-A

Ordering Information							
Туре	Part Number	Description					
2MP Camera	DH-HAC-HDW1239TP- IL-A	2MP Smart Dual Illuminators Eyeball Camera, PAL					
ZIVIP Calliela	DH-HAC-HDW1239TN- IL-A	2MP Smart Dual Illuminators Eyeball Camera, NTSC					
	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					
Accessories (Optional)	PFA152-E + PFB204W	Pole Mount Bracket + Wall Mount Bracket					
	PFM800-E	Passive HDCVI Balun					
	PFM321D	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					
	PFM904	Integrated Mount Tester					



# Optional:

Accessories







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

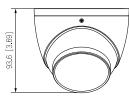


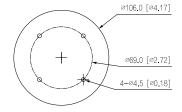
PFM800-E Passive HDCVI Balun



PFM321D 12V 1A Power Adapter

## Dimensions (mm[inch])







PFM904 Integrated Mount Tester