

DH-HAC-HDBW1239RA-IL-A

2MP Smart Dual Illuminators Dome 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, IK10, 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. IK10: The enclosure can withstand up to 5 punches from a 5 kg hammer falling from a height of 40 cm (impact energy is 20 J).

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.

Day/Night

BLC

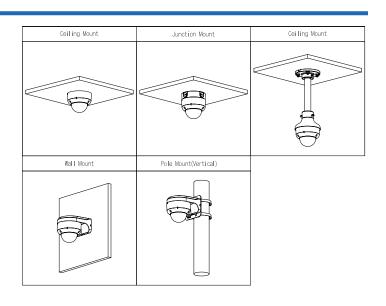
Auto (ICR)/Color/B/W

BLC; HLC; WDR

Technical Specification						WDR	130 dB
Camera					White Balance	Auto; Area white balance	
Pixel		2 MP				Gain Control	Auto/Manual
Image Sensor		2 MP CMOS				Noise Reduction	3D NR
Max. Resolution		1920 (H) × 1080 (V)				Smart Illumination	Yes
Scanning System		Progressive				Mirror	Off/On
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s				Privacy Masking	Off/On (8 areas, rectangle)
Min. Illumination		0.001 lux@F1.6 (Color, 30 IRE) 0.0001 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				Illuminator Certification	Smart IR&WL WL Mode; IR Mode
S/N Ratio		>65 dB				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) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL62368-1+CAN/CSA C22.2 No.62368-1-14)
Illumination Distance		IR: 40 m (131.23 ft) Warm light: 40 m (131.23 ft)					
Illuminator On/Off Control		Auto/Manual					
Illuminator Number		3 (IR light)				Port	
		3 (Warm light)				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one port
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–80°				Audio Input	One channel built-in MIC (-A)
		Rotation: 0°–355°				Power	
Lens						Power Supply	12 VDC ± 30%
Lens Type		Fixed-focal				Power Consumption	Max 5.3 W (12 VDC, LED on)
Lens Mount		M12				Environment	
Focal Length	١	2.8 mm				Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
		3.6 mm				Operating Humidity	<95% (RH), non-condensing
Max. Aperture		F1.6				Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Field of View		2.8 mm: H: 107°; V: 56°; D: 127°				Protection	IP67; IK10
Iris Control		3.6 mm: H: 86°; V: 46°; D: 101°				Structure	
Close Focus	Distance	2.8 mm: 0.7 m (2.29 ft)				Casing Material	Metal dome + plastic
		3.6 mm: 1.1 r	m (3.61 ft)			Product Dimensions	Φ126.0 mm × 100.0 mm (Φ4.96" × 3.94")
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Packaging Dimensions	148 mm × 139 mm × 137 mm (5.83" × 5.47" × 5.39
	2.8 mm	42.2 m (138.45 ft)	16.9 m (55.45 ft)	8.4 m (27.56 ft)	4.2 m (13.78 ft)	Net Weight	0.59 kg (1.30 lb)
	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)	Gross Weight	0.76 kg (1.68 lb)
Video						Installation	Wall mount; ceiling mount; vertical pole mount
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;					
Resolution		NTSC: 960 × 480H 1080p (1920 × 1080); 960H (960 × 576/960 × 480)					
Kesolution		1000H (1320 x 1000); 300H (300 x 3/6/360 x 480)					

Lite Series | DH-HAC-HDBW1239RA-IL-A

Ordering Information							
Туре	Part Number	Description					
2MP Camera	DH-HAC-HDB- W1239RAP-IL-A	2MP Smart Dual Illuminators Dome Camera, PAL					
ZIMP Camera	DH-HAC-HDB- W1239RAN-IL-A	2MP Smart Dual Illuminators Dome Camera, NTSC					
	PFA137	Junction Box					
	PFA123	Water-proof Junction Box					
	PFB203W	Wall Mount Bracket					
Accessories	PFA109 + PFB220C	Ceiling Mount Bracket					
(Optional)	PFB203W + PFA152-E	Pole Mount Bracket					
	PFM800-E	Passive HDCVI Balun					
	PFM321D	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					



Dimensions (mm[inch])

Accessories

Optional:



PFA137 Junction Box



PFA109 + PFB220C Ceiling Mount Bracket



PFM321D 12V 1A Power Adapter



PFA123 Water-proof Junction Box

PFB203W Wall Mount

Bracket

PFM800-E

Passive HDCVI

Balun



PFB203W + PFA152-E Pole Mount





PFM904 Integrated Mount Tester

