

DH-HAC-HFW1209TM-IL-A

2MP Smart Dual Light HDCVI Fixed-focal Bullet Camera



Functions

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.

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 Mic

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.

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 1209-IL-S3 series.
- * 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.
- · 3D NR.
- · Smart Dual Light.
- · Smart Light+.
- · 50 m illumination distance.
- · Super Adapt.
- · Built-in Mic.
- 3.6 mm fixed lens.
- CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.













Protection (IP67, Wide Voltage)

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

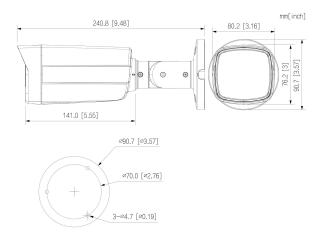
HDCVI technology provides long distance transmission in real time without transmission loss. It supports transmission distances up to 700 m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables. The results were obtained and verified through rigorous testing in Dahua's test laboratory.

Technical Specification	n					Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Camera						Day/Night	Auto(ICR)/Color/B/W
Image Sensor	2 MP CMOS					BLC	BLC; HLC; WDR
Max. Resolution	1920 (H) × 1080 (V)					WDR	DWDR
Scanning System	Progressive					White Balance	Auto;Area white balance
Electronic Shutter Speed	PAL: 1/25 s-1/100,000 s					Gain Control	Auto/Manual
Electronic Shatter Speed	NTSC: 1/30 s-1/100,000 s					Noise Reduction	3D NR
Min. Illumination	0.001 lux@F1.6 (Color, 30 IRE) 0.0001 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Illumination Mode	Smart IR&WL WL Mode; IR Mode
S/N Ratio	>65 dB					Mirror	Yes
Illumination Distance	IR: 50 m (164.04 ft)					Privacy Masking	Off/On (8 areas, rectangle)
Illumination Distance	Warm light: 50 m (164.04 ft)					Certification	
Illuminator On/Off Control	Auto/Manual					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035;
Illuminator Number	4 (Multi-core light)					Audio	
Angle Adjustment	Pan: 0°–360° Tilt: 0°–90°					Built-in Mic	Yes
o ,	Rotation: 0°–360°					Camera Audio	CVI; TVI
Lens						Pick-up Distance	8 m (26.25 ft)
Lens Type	Fixed-focal					Port	
Lens Mount	M12					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BN
Focal Length	3.6 mm						port
Max. Aperture	F1.6					Power	
Field of View	H: 86°; V: 47°; D: 100°					Power Supply	12 VDC (±30%)
Iris Control	Fixed					Power Consumption	Max 6 W (12 VDC, LED on)
Close Focus Distance	1.0 m (3.28 ft)					Environment	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
					·	Operating Humidity	<95% (RH), non-condensing
	3.6 mm	53.7 m (176.18	21.5 m (70.54	0.54 (35.10	5.4 m (17.72 ft)	Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
		ft)	ft)			Storage Humidity	<95% (RH), non-condensing
	*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 distances. For intelligent function distances, refer to installation					Protection	IP67
						Anti-corrosion Level	Basic Protection
						Structure	
						Casing Material	Metal
intelligent function distances, refer to installation and commissioning manual/project design tool.						Product Dimensions	240.8 mm × 80.2 mm × 90.7 mm (9.48" × 3.16" × 3.57 (L × W × H)
Video						Net Weight	0.67 kg (1.48 lb)
	CVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps AHD: PAL: 1080p@30 fps NTSC: 1080p@30 fps TVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps CVBS: PAL: 960H NTSC: 960H					Gross Weight	0.88 kg (1.94 lb)
Video Frame Rate						Installation	Wall mount; ceiling mount; vertical pole mount

Ordering Information							
Туре	Model	Description					
HDCVI CAMERA	DH-HAC-HFW1209TMN-IL- A	2MP Smart Dual Light HDCVI Fixed-focal Bullet Camera,NTSC					
NDCVI CAIVIENA	DH-HAC-HFW1209TMP-IL- A	2MP Smart Dual Light HDCVI Fixed-focal Bullet Camera,PAL					
	G3416GW	G3/4" Water Joint					
	DH-PFA151	Corner Mount Bracket					
	DH-PFA130-E	Water-proof Junction Box					
	DH-PFA152-E	Pole Mount Bracket					
Accessories (Optional)	DH-PFA135	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					

Ceiling Mount Wall Mount Pole Mount(Vertical)

Dimensions (mm[inch])



Accessories

Optional:



DH-PFA130-E Water-proof Junction Box



DH-PFA135 Junction Box



DH-PFA151 Corner Mount Bracket



DH-PFA152-E Pole Mount Bracket



DH-PFM320D-EN DC12V2A power adapter



DH-PFM321-EN DC12V1A power adapter



DH-PFM800-E 1 Channel Passive HDCVI Balun



G3416GW G3/4" Water Joint



PFM904 Integrated Mount Tester