

DH-HAC-HF3101EP

1.3MP Starlight HDCVI Box Camera



- Max. 60 fps@720p.
- Starlight, 120dB true WDR, 3D NR.
- HD and SD dual-output.
- C/CS lens.
- AC24V/DC12V.



System Overview

The Pro Series contains a series of highly reliable and flexible cameras, making it a great choice for SMB solutions and projects. It has Starlight technology, up to 130 dB true WDR and 3DNR, and produces vivid images in rich detail even under difficult lighting conditions.

Functions

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.

Simplicity

HDCVI technology inherits the simplicity of traditional analog surveillance systems, making it a great mechanism for protecting your valuables. HDCVI can be upgraded from the traditional analog system without replacing the existing coaxial cabling. Its plug and play design enables it to produce high-definition videos during surveillance without the hassle of configuring a network.

Starlight

With its large image sensor and large aperture, the camera delivers high performance and quality, even in low-light conditions. The starlight feature allows the camera to capture highly detailed images in accurate color, recognizing targets even at night or in scenes with limited light.

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.

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.

Protection

The camera has $\pm 25\%$ input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

Technical Specification

Camera

Image Sensor	1.3 MP CMOS; 1/3" inch
Effective Pixels	1305(H) × 977 (V)
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1.3s-1/16000s NTSC: 1s-1/16000s
Min. Illumination	0.01 lux@F1.2 (Color, 30 IRE) 0.001 lux@F1.2 (B/W, 30 IRE)
S/N Ratio	>65 dB
Illumination Distance	NA
Illuminator On/Off Control	NA
Illuminator Number	NA
SD/HD Switch	Dual output

Lens

Lens Type	Manual Vari-focal/Motorized Vari-focal
Auto Focus	Yes
Lens Mount	C/CS
Iris Control	Auto
ABF	Yes

Video

Video Frame Rate	PAL: 720p@25fps; 720p@50fps; NTSC: 720p@30fps; 720p@60fps
Resolution	720p (1280 × 720); 960H (960 × 576/960 × 480)
Day/Night	Auto(ICR)/Color/B/W
BLC	BLC; HLC; WDR
WDR	120 dB
White Balance	Auto;Area white balance
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	Yes
Defog	Electronic defog
Digital Zoom	Yes
Mirror	Yes
Privacy Masking	Off/On (8 areas, rectangle)

Certification

Certifications	CE
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Port

Video Output	1-channel BNC HDCVI high definition video output & 1-channel BNC CVBS video output
Audio Input	1-channel audio in
Alarm Input	2-channel alarm in

Alarm Output	1-channel alarm out
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Power

Power Supply	12 VDC ± 10%; 24 VAC ± 25%
Power Consumption	Max 4.3 W

Environment

Operating Temperature	-30 °C to +60 °C (-86 °F to +140 °F)
Operating Humidity	<95% (RH), non-condensing
Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Storage Humidity	<95% (RH), non-condensing

Structure

Product Dimensions	135.4 mm × 74.4 mm × 65.5 mm (5.33" × 2.93" × 2.58")
Net Weight	0.49 kg (1.08 lb)
Gross Weight	0.60 kg (1.32 lb)

Ordering Information

Type	Part Number	Description
1.3M Camera	DH-HAC-HF3101EP	1.3MP Starlight HDCVI Box Camera, PAL
	DH-HAC-HF3101EN	1.3MP Starlight HDCVI Box Camera, NTSC
Accessories (Optional)	PFB110W	Wall /Ceiling/Plane Mount
	PFB121W	Wall Mount Bracket
	PFL2712-E6D	2.7-12 mm
	PFL0550-E6D	5-50 mm
	PFH610V	Housings
	PFM321D	12 VDC 1A Power Adapter
	PFM904	Integrated Mount Tester

Accessories

Optional:



PFB110W
Wall/Ceiling/Plane
Mount



PFB121W
Wall Mount
Bracket



PFL2712-E6D
2.7-12 mm



PFL0550-E6D
5-50 mm



PFH610A-IR
Housings



PFM321D
12V 1A Power
Adapter



PFM904
Integrated Mount
Tester

Dimensions (mm[inch])

