a|hua
TECHNOLOGY

DH-HAC-HF3231E

2MP Starlight HDCVI Box Camera

HDCVI

· Starlight, 120dB true WDR, 3DNR
· Max 30fps@1080P
· HD and SD dual-output
· C/CS lens
· AC24V/DC12V

Ultra Series | 1080p FULL HD | Starlight | WDR | AC 24V DC 12V

System Overview

Experience 1080P full HD video, a complete set of features, and the simplicity of reusing existing coaxial infrastructure with HDCVI. The Starlight HDCVI camera with 120dB true WDR presents a high quality image with rich details even in extreme low-light conditions. It offers multi-language OSD and multiple interfaces, including HD&SD video, audio, and alarm, all in an elegant case design. Its superior image performance and project-oriented features make the camera an ideal choice for mid to large-size businesses and projects in all industries.

Functions

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the HCVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

* Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees long-distance and real-time transmission without any loss. It supports up to 800m for 1080P Full HD video via coaxial cable, and up to 300m via UTP cable.*

*Actual results verified by real-scene testing in Dahua's test laboratory.

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Starlight

With the adoption of high performance sensor, the camera is able to provide incomparable performance even under extreme lowlight environment. The starlight feature allows more details to be captured and accurate color to be recognized at night or in scenes with limited illumination.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Multi-interfaces

The camera is designed with multi-interfaces for transmitting/receiving various signals. It supports HDCVI and CVBS video outputs simultaneously with two BNC connectors, and tester out interface for debugging. It also supports audio input interface as well as alarm input/output for connecting external devices. Multi-interfaces covers different requirements of monitoring scenes and facilitates deployment and construction.

Protection

Supporting ±25% input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Elegant Design

As projected-oriented product, the camera adopts elegant appearance design to express feeling of high reliability for industrial grade application.

Technical Specification

Camera

Image Sensor	1/2.8" CMOS
Effective Pixels	1945(H)×1097(V), 2.1MP
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1.3s~1/30000s NTSC: 1s~1/30000s
Minimum Illumination	0.005Lux/F1.2 (Color), 0.0005Lux/F1.2 (B/W)
S/N Ratio	More than 65dB
IR Distance	N/A
IR On/Off Control	N/A
IR LEDs	N/A

Lens

Lens Type	C/CS lens / Auto iris
Mount Type	C/CS
Focal Length	N/A
Max Aperture	N/A
Angle of View	N/A
Focus Control	Auto / Manual
Close Focus Distance	N/A

Pan / Tilt / Rotation

Pan/Tilt/Rotation	N/A

Video

Resolution	1080P (1920×1080)
Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P
Video Output	1-channel BNC HDCVI high definition video output & 1-channel BNC CVBS video output
Day/Night	Auto (ICR) / Manual
OSD Menu	Multi-language
BLC Mode	BLC / HLC / WDR
WDR	120dB
Gain Control	AGC
Noise Reduction	2D / 3D
White Balance	Auto / Manual
Smart IR	N/A

Certifications

Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)

Interface

Audio Interface	1-channel audio in
Alarm Interface	2-channel alarm in & 1-channel alarm out

Eelectrical

Power Supply	AC 24V±25% / DC 12V±25%
Power Consumption	Max 4.7W (12V DC, IR on)

Environmental

Operating Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH * Start up should be done at above-30°C (-22°F)
Storage Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH
Ingress Protection & Vandal Resistance	N/A

Construction

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

Ordering Information

Type	Part Number	Description
2MP Camera	DH-HAC-HF3231EP	2MP Starlight HDCVI Box Camera, PAL
	DH-HAC-HF3231EN	2MP Starlight HDCVI Box Camera, NTSC
Accessories	PFB110W	Wall/ceiling/plane mount (For use alone)
	PFB121W	Wall mount (For use alone)
	PLZ1040-D	4MP 2.7-12mm Lens
	PFL0550-E6D	6MP 5-50mm Lens
	PFH610V-IR	14" Vandal-proof Housing
	PFM800-E	1 Channel Passive HDCVI Balun
	PFM321	12V 1A Power Adapter
	PFM320	12V 2A Power Adapter
	PFM320D-015	12V 1.5A Power Adapter

Accessories

Optional:

PFB110W
Wall/ceiling/plane mount

PFB121W
Wall mount

PLZ1040-D
Lens

PFL0550-E6D
Lens

PFH610V-IR
14" Vandal-proof Housing
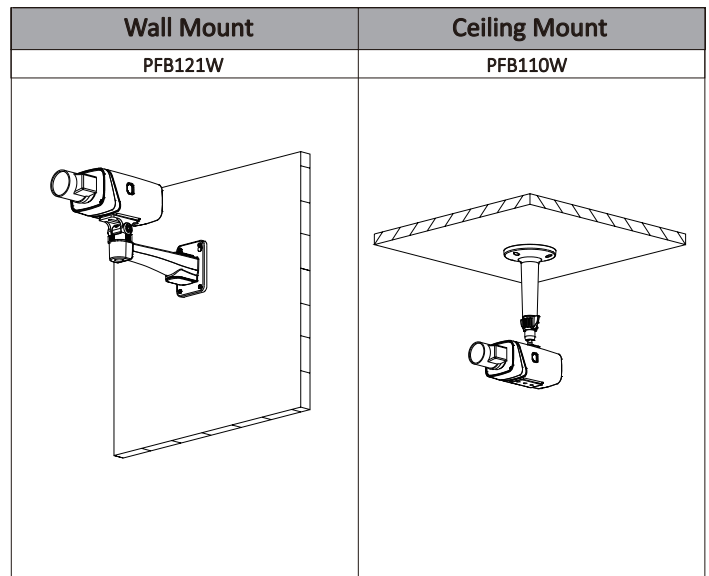
PFM800-E
Passive HDCVI Balun

PFM321
12V 1A Power Adapter

PFM320
12V 2A Power Adapter

PFM320D-015
Power Adapter

Wall Mount	Ceiling Mount
PFB121W	PFB110W

Dimensions (mm/inch)

135.4 [5.33"]
125 [4.92"]
74.4 [2.93"]
65.5 [2.58"]