

HDCVI Starlight Dome Camera

2MP Starlight HDCVI IR Dome Camera





- Starlight, 120 dB True WDR, 3DNR
- Max. 30 fps @ 1080p
- HD and SD Dual-output
- 2.7 to 12 mm Motorized Lens
- Max. IR length 50 m (164 ft) Smart IR
- IP67, IK10, AC24V/DC12V

















System Overview

Experience the superior clarity of Full HD 1080p video while leveraging your existing coaxial infrastructure. The camera features 120 dB True WDR for applications under complex dynamic range and presents high quality images with clear details and accurate color rendition. The camera offers a multi-language on-screen display and HD and SD dual-output. The outstanding performance and easy installation make the camera an ideal choice for mid- to large-size businesses and for projects where highly reliable surveillance and construction flexibility are valued.

Functions

Four Signals over a Single Coaxial Cable

HDCVI technology simultaneously transmits four signals (audio, video, power, and data)¹ over a single coaxial cable. Dual-way data transmission allows the HDCVI camera to communicate with an HCVR to send control signals or to trigger alarms. Moreover, HDCVI technology supports PoC for construction flexibility.

Long Distance Transmission

HDCVI technology guarantees real-time transmission over long distances without loss of video quality. The camera supports transmission up to 700 m (0.43 miles) via coaxial cable, and up to 300 m (0.19 miles) via UTP cable.²

Simplicity

HDCVI technology seamlessly integrates traditional analog surveillance systems with upgraded, high-quality HD video, making it the best choice to protect security investments. The plug and play approach enables full HD video surveillance without the hassles of configuring a network.

Starlight

With the adoption of a 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

For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) 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 a tester interface for debugging. It also supports audio input interface as well as alarm input/output for connecting external devices.

Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 50 m (164 ft).

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67, making it suitable for indoor or outdoor environments. The camera complies with IK10 impact resistant rating to provide maximum durability against vandals, making it capable of withstanding the equivalent of 55 kg (120 lbs) of force.

Supporting $\pm 25\%$ 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.

^{1.} Audio input is available for certain HDCVI cameras

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

2D/3D

Auto / Manual

Auto / Manual

Noise Reduction
White Balance

Smart IR

Camera	·			
Certifications	Technical Specification		Certifications	
### Effective Pixels			Certifications	FCC (CFR 47 FCC Part 15 Subpart B),
Scanning System Progressive Audio Interface One (1) Channel In	-			UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Electronic Shutter Speed	Effective Pixels	1945(H) × 1097(V), 2.1 MP	Interface	
Alarm Interface	Scanning System	Progressive	Audio Interface	One (1) Channel In
Minimum Illumination Oxford Repril Oxford Repril	Electronic Shutter Speed		Alarm Interface	
R Distance	Minimum Illumination			One (1) Alarm Channel Out
R Con/Off Control Auto / Manual Power Consumption Max 12.5 W (12V DC, IR on)	S/N Ratio	More than 65 dB	Electrical	
IR LEDS Lens Lens Motorized lens / Auto iris Deprating Conditions Storage Conditions 30°C to +60°C (22°F to +140°F), Less than 90% RI Initiate start up above -30°C (22°F) Storage Conditions 30°C to +60°C (22°F to +140°F), Less than 90% RI Initiate start up above -30°C (22°F to +140°F), Less than 90% RI Mount Type Board in Focal Length 2.7 mm to 12 mm Vandal Resistance IK10 Construction Casing Aluminium Focus Control Auto / Manuel Close Focus Distance 300 mm (1181 in.) Net Weight 0.90 kg (1.98 lb) Gross Weight 1.20 kg (2.65 lb) Frame Rate 25/30 foc © 10800 Frame Rate 25/30 foc © 10800 Pan-(1) BNC CHUS Chainel, plus One (1) BNC CHUS Chainel, plus One (1) BNC CHUS Tearnel, plus One (1) CWS Tester Channel Day/Night Auto (ICR) Manual OSD Menu Multi-language BLC / HLC / WDR WDR Motorized lens / Auto inis Storage Conditions 30°C to +60°C (22°F to +140°F), Less than 90% RI Initiate start up above -30°C (22°F to +140°F), Less than 90% RI Initiate start up above -30°C (22°F to +140°F), Less than 90% RI Initiate start up above -30°C (22°F to +140°F), Less than 90% RI Initiate start up above -30°C (22°F to +140°F), Less than 90% RI Initiate start up above -30°C (22°F to +140°F), Less than 90% RI Initiate start up above -30°C (22°F to +140°F), Less than 90% RI Initiate start up above -30°C (22°F to +140°F), Less than 90% RI Initiate start up above -30°C (22°F to +140°F), Less than 90% RI Initiate start up above -30°C (22°F to +140°F), Less than 90% RI Initiate start up above -30°C (22°F to +140°F), Lest than 90% RI Initiate start up above -30°C (22°F to +140°F), Lest than 90% RI Initiate start up above -30°C (22°F to +140°F), Lest than 90% RI Initiate start up above -30°C (22°F to +140°F), Lest than 90% RI Initiate start up above -30°C (22°F to +140°F), Lest than 90% RI Initiate start up above -30°C (22°F to +140°F), Lest than 90°C (18°F) Storage Conditions 1857 185	IR Distance	Up to 50 m (164 feet)	Power Supply	AC 24V±25% / DC 12V±25%
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OSD Menu Multi-language BLC Mode BLC / HLC / WDR WDR 120 dB	Video Output	One (1) BNC CVBS Channel, plus		
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WDR 120 dB	OSD Menu	Multi-language		
	BLC Mode	BLC / HLC / WDR		
Gain Control AGC	WDR	120 dB		
	Gain Control	AGC		

Ultra Series | DH-HAC-HDBW32A1EN-Z

Ordering Information				
Туре	Part Number	Description		
2MP Camera	DH-HAC-HDBW32A1EN-Z	2MP Starlight HDCVI IR Dome Camera, NTSC		
	PFA138	Junction box (for use alone)		
Accessories	PFA101	Mount adapter (For use with PFB302S wall mount or with PFB302S and PFA152 pole mount or with PFB300C ceiling mount)		
	PFB302S	Wall mount (For use with PFA101 mount adapter or with PFA101 and PFA152 pole mount)		
	PFA152	Pole mount (For use with PFA101 and PFB302S wall mount)		
	PFB300C	Ceiling mount (For use with PFA101 mount adapter)		
	PFB201C	In-ceiling mount (For use alone)		
Accessories				

159.1 [6.26"] Ø159.1 [Ø6.26"] 117.9 [4.64"] 0 3-Ø4.7 [Ø0.19"]

Dimensions (mm/inch)

Optional:







PFA138 Junction box

PFA101 Mount adapter

PFB302S Wall mount







PFA152 Pole mount

PFB300C Ceiling mount

PFB201C In-ceiling mount

In-ceiling Mount	Junction Mount	Pole Mount
PFB201C	PFA138	PFA101 + PFB302S + PFA152
0	•	
Ceiling Mount	Wall Mount	
PFA101 + PFB300C	PFA101 + PFB302S	



Ø140.0 [Ø5.51"]