

# **HDCVI Starlight Dome Camera**

2MP Starlight HDCVI IR Dome Camera





### **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 security and construction flexibility are valued.

### **Functions**

### Four Signals over a Single Coaxial Cable

HDCVI technology simultaneously transmits four signals (audio, video, power, and data)<sup>1</sup> 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. HDCVI cameras provide the same resolution as most IP network camera systems using existing RG-59, RG-6, or CAT 6 UTP cabling.

### Simplicity

HDCVI technology seamlessly integrates traditional analog security 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 security without the hassles of configuring a network.

- Starlight, 120 dB True WDR, 3DNR
- Max. 30 fps at 1080p
- HD and SD Dual-output
- 2.7 to 12 mm Motorized Lens
- Max. IR length 50 m (164 ft) Smart IR
- IP67, IK10, 24 VAC / 12 VDC

















### 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 illuminati on.

### 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.

Technical Specification	n			
Camera				
Image Sensor	1/2.8-in. CMOS	1/2.8-in. CMOS		
Effective Pixels	1945(H) × 1097(V)	1945(H) × 1097(V), 2.1MP		
Scanning System	Progressive	Progressive		
Electronic Shutter Speed	1 s to 1/30000 s	1 s to 1/30000 s		
Minimum Illumination	0.005 Lux @ F1.4			
S/N Ratio	More than 65 dB	O Lux (IR on)  More than 65 dB		
IR Distance	Up to 50 m (164 fe	Un to 50 m (164 feet)		
IR On/Off Control	Auto / Manual			
IR LEDs	3			
	3			
Lens				
Lens Type  Mount Type	Board-in	Motorized Lens / Auto Iris		
Focal Length		2.7 mm to 12 mm		
Max Aperture	F1.4			
Angle of View	H: 95° to 36°	H: 95° to 36°		
Focus Control	Auto, Manual	Auto, Manual		
Close Focus Distance	300 mm (11.81 in.)	300 mm (11.81 in.)		
Pan / Tilt / Rotation				
Range	Pan: 0° to 355° Tilt: 0° to 65° Rotation: 0° to 355			
Video				
Resolution	1080p (1920 × 108	0)		
Frame Rate		25/30 fps at 1080p 25/30/50/60 fps at 720p		
Video Output	One (1) BNC CVBS	One (1) BNC HDCVI High-definition Channel and, One (1) BNC CVBS Channel, plus One (1) CVBS Tester Channel		
	RG-59/U Coax	720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft)		
Video Transmission <sup>2</sup>	RG-6/U Coax	720p: 1200 m (3937.01 ft) 1080p: 800 m (2624.67 ft)		
	CAT 6 UTP (balun required)	720p: 450 m (1476.38 ft) 1080p: 300 m (984.25 ft)		
Day/Night	Auto (ICR), Manual			
OSD Menu	Multi-language			
BLC Mode	BLC, HLC, WDR			
WDR	120 dB	120 dB		
Gain Control	AGC			
Noise Reduction	2D, 3D	2D, 3D		
White Balance	Auto, Manual	Auto, Manual		
Smart IR	Auto, Manual	Auto, Manual		

Certifications	
Safety	CE: EN55032, EN55024, EN50130-4) UL: UL60950-1+CAN/CSA C22.2 No.60950-)
Electromagnetic Compatibility (EMC)	FCC CFR 47 FCC Part 15 Subpart B ANSI C63.4-2014)
Interface	
Audio Interface	One (1) Channel In
Alarm Interface	One (1) Alarm Channel In One (1) Alarm Channel Out
Electrical	
Power Supply	24 VAC ±25% / 12 VDC ±25%
Power Consumption	Max 12.5 W (12V DC, IR on)
Environmental	
Operating Conditions	-30°C to +60°C (-22°F to +140°F), Less than 90% RH

### Vandal Resistance Construction

**Operating Conditions** 

**Storage Conditions** 

Ingress Protection

Casing	Aluminium
Dimensions	ø159.10 mm × 117.90 mm (ø6.26 in. × 4.64 in.)
Net Weight	0.90 kg (1.98 lb)
Gross Weight	1.20 kg (2.65 lb)

IP67

IK10

Initiate start up above -30°C (-22°F)

-30°C to +60°C (-22°F to +140°F), Less than 90% RH

<sup>2.</sup> Transmission distance results verified by real-scene testing in Dahua's test laboratory. Actual transmission distances may vary due to external influences, cable quality, and wiring structures.

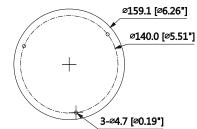
## Ultra Series | DH-HAC-HDBW32A1EN-Z

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				

# 117.9 [4.64"]

# Dimensions (mm/inch) 159.1 [6.26"]

0



Optional:





Mount adapter



PFB302S Wall mount





PFA101



PFA152 Pole mount

PFB300C Ceiling mount

PFB201C In-ceiling mount

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

