

# DH-HAC-HDBW3231E-ZT

2MP Starlight HDCVI IR Dome Camera





- · Starlight, 120dB true WDR, 3DNR
- · Max 30fps@1080P
- · HD and SD dual-output
- · 2.7-12mm motorized lens
- · Max. IR length 50m, Smart IR
- · IP67, IK10, AC24V/DC12V

















#### **System Overview**

Experience full HD 1080P video and complete features with the simplicity of using existing coaxial infrastructure. The starlight HDCVI camera presents high quality image with rich details even under extreme lowlight environment and supports 120dB true WDR. It offers various auto-iris lens models with multi-language OSD and multi-interfaces including HD&SD video, audio and alarm, all come with elegant case design. The superior image performance and project-oriented features make the Ultra series HDCVI camera an ideal choice for mid to large-size business 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.

#### **Smart IR**

The camera is designed with array LED IR illumination for best lowlight performance at maximum distance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object comes closer to the camera.

#### 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 55kg (120lbs) 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.

### **Elegant Design**

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

# Ultra Series | DH-HAC-HDBW3231E-ZT

White Balance

Smart IR

Auto / Manual

Auto / Manual

Technical Specification		Certifications	
Camera	4/0.01/0.100	Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-201
Image Sensor	1/2.8" CMOS		UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Effective Pixels	1945(H)×1097(V), 2.1MP	Interface	
Scanning System	Progressive	Audio Interface	1-channel audio in
Electronic Shutter Speed	PAL: 1.3s~1/30000s NTSC: 1s~1/30000s	Alarm Interface	1-channel alarm in & 1-channel alarm out
Minimum Illumination	0.005Lux/F1.4, 0Lux IR on	Eelectrical	
S/N Ratio	More than 65dB	Power Supply	AC 24V±25% / DC 12V±25%
IR Distance	Up to 50m (164feet)	Power Consumption	Max 12.5W (12V DC, IR on)
IR On/Off Control	Auto / Manual	Environmental	
IR LEDs	3	Operating Conditions	-30°C $^{\sim}$ +60°C (-22°F $^{\sim}$ +140°F) / Less than 90% RH * Start up should be done at above -30°C (-22°F)
Lens		Storage Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH
Lens Type	Motorized lens / Auto iris	Ingress Protection & Vandal Resistance	IP67 & IK10
Mount Type	Board-in	Construction	
Focal Length	2.7-12mm	Casing	Aluminium
Max Aperture	F1.4	Dimensions	Φ159.1mm×117.9mm (Φ6.26"×4.64")
Angle of View	H: 95°~36°	Net Weight	0.90kg (1.98lb)
Focus Control	Auto / Manual	Gross Weight	1.20kg (2.65lb)
Close Focus Distance	300mm 11.81"		
Pan / Tilt / Rotation			
Pan/Tilt/Rotation	Pan: 0° ~ 355° Tilt: 0° ~ 65° Rotation: 0° ~ 355°		
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 & 1-channel BNC SDI video output CVBS tester out		
Day/Night	Auto (ICR) / Manual		
OSD Menu	Multi-language		
BLC Mode	BLC / HLC / WDR		
WDR	120dB		
Gain Control	AGC		
Noise Reduction	2D/3D		

Ordering Information				
Туре	Part Number	Description		
2MP Camera	DH-HAC-HDBW3231E-ZT 2.7~12mm	2MP Starlight HDCVI IR Dome Camera, PAL		
	DH-HAC-HDBW3231E-ZT 2.7~12mm	2MP Starlight HDCVI IR Dome Camera, NTSC		
	PFA138	Junction box (For use alone)		
	PFA101	Mount adapter (For use with PFB302S wall mount or with PFB302S & PFA152 pole mount or with PFB300C ceiling mount)		
Accessories	PFB302S	Wall mount (For use with PFA101 mount adapter or with PFA101 & PFA152 pole mount)		
	PFA152	Pole mount (For use with PFA101 & PFB302S wall mount)		
	PFB300C	Ceiling mount (For use with PFA101 mount adapter)		
	PFB201C	In-ceiling mount (For use alone)		
Acceptance				

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# Accessories

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
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Ceiling Mount	Wall Mount	
PFA101 + PFB300C	PFA101 + PFB302S	

