

DH-HAC-HDBW2231R-Z

2MP Starlight HDCVI IR Dome Camera





- · Starlight, 120dB true WDR, 3DNR
- · Max 30fps@1080P
- · HD and SD output switchable
- · 2.7-13.5mm motorized lens
- · Max. IR length 30m, Smart R
- · IP67, IK10, DC12V















System Overview

Experience full HD 1080P video 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 motorized/fixed lens models with multi-language OSD and HD/SD switchable output. The outstanding performance and true WDR feature make the camera an ideal choice for mid to large-size business and common projects where both highly reliable surveillance and construction flexibility are concerned.

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-distrace and real-time transmission without any loss. It supports up to for 1080P Full HD video via coaxial cable, and up to 300m via Uppocable.*

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

Simplicity

HDCVI technology inherits to 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 entires full HD video surveillance without the hassle of configuring a negion.

Starlight

With the doption 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.

Advanced 3DNR

"3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3DNR effectively decreases the band width and saves the storage space.

Multi-formats

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu or by PFM820 (UTC controller). This feature makes the camera to be compatible with not only HCVRs but also most end users' existing HD/SD DVRs.

Smart IR

The camera is designed with array LED IR illumination for best lowlight performance. 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 come closer to the camera.

Large Aperture Lens

The camera adopts high-end F1.3 large aperture lens. With higher amount of absorbed light, the camera presents an impressive lowlight performance.

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 ±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.

Pro Series | DH-HAC-HDBW2231R-Z

Frame Rate

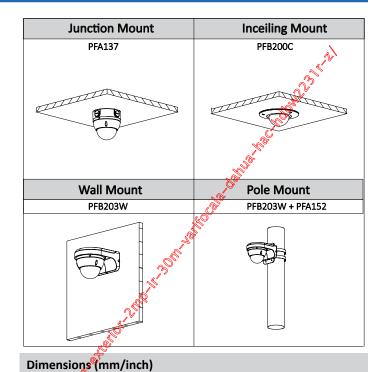
Video output

Technical Specification				Day/Night	Auto (ICR) / Manual
Camera				OSD Menu	Multi-language
Image Sensor	1/2.8" CMOS			BLC Mode	BLC / HLC / WDR 120dB
Effective Pixels	1937(H)×1097(V), 2.1MP			WDR	120dB
Scanning System	Progressive			Gain Control	AGC
Electronic Shutter Speed	PAL: 1/4s~1/100000s NTSC: 1/3s~1/100000s			Noise Reduction	2D / 3D
Minimum Illumination	0.005Lux/F1.3, 30IRE, 0Lux IR on			White Balance	Auto / Manual
S/N Ratio	More than 65dB			Smart IR	Auto / Manua
IR Distance	Up to 30m (98feet)			Certifications	
IR On/Off Control	Auto / Manual			Certifications	CK (EN55032, EN55024, EN50130-4) CC (CFR 47 FCC Part 15 subpartB, ANSI C63.4- UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
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Lens	Matarized lane / Fixed inic			Interface	
Lens Type	Motorized lens / Fixed iris			Audio Interface	N/A
Mount Type	Board-in			Eelectrical	
Focal Length	2.7-13.5mm			Power Supply	12V DC ±25%
Max Aperture	F1.3			Power Ansumption	Max 5.4W (12V DC, IR on)
Angle of View	H: 102°~29°			Environmental	
Focus Control	Auto / Manual			Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% * Start up should be done at above -40°C (-40°
Close Focus Distance	200mm 7.87"		%	Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90%
DORI Distance)	Ingress Protection &Vandal Resistance	IP67 & IK10
	general proximity" of distance whi our needs. The DORI distance is ca			Construction	
sensor specification and lab test result according to EN 62676-4 which efines the criteria for Detect, Observe, Recognize and Identify respectively.				Casing	Aluminium
, ,	Distance _	15°		Dimensions	Ф122mm×88.9mm (Ф4.8"×3.5")
	Wide	Tele		Net Weight	0.47kg (1.04lb)
Detect	25px/m	153m(502ft)		Gross Weight	0.62kg (1.37lb)
Observe	(8px/ft) 63px/m (19px/ft) 19m(62ft)	61m(200ft)			
Recognize	125px/m (38px/ft) 9m(30ft)	31m(102ft)			
Identify	250pgm 5m(16ft)	15m(49ft)			
Pan / Tilt / Rotation	Ne la				
Pan/Tilt/Rotation	Pan: 0° ~ 355° Tilt: 0° ~ 75° Rotation: 0° ~ 355°				
Video					
Resolution	1080P (1920×1080)	1080P (1920×1080)			
112					

25/30fps@1080P, 25/30fps@720P

1-channel BNC high definition video output / CVBS video output (Can switch)

Ordering Information					
Туре	Part Number	Description			
2MP Camera	DH-HAC-HDBW2231RP-Z	2MP Starlight HDCVI IR Dome Camera, PAL			
	DH-HAC-HDBW2231RN-Z	2MP Starlight HDCVI IR Dome Camera, NTSC			
	PFA137	Junction box (For use alone)			
	PFB200C	Inceiling mount (For use alone)			
	PFB203W	Junction box (For use alone or with PFA152 pole mount)			
	PFA152	Pole mount (For use with PFA135 junction box)			
Accessories	PFM820	UTC Controller			
	PFM800	Passive HDCVI Balun			
	PFM801	Passive HDCVI Balun with Power			
	PFM809-4CH	4 Channel Passive HDCVI Balun			
	PFM809	16 Channel Passive HDCVI Balun			
	PFM810	POC Transceiver			



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Accessories

Optional:



PFA137 Junction box



PFA152 Pole mount



PFB200C Inceiling mount



PFM820 **UTC** Controller

PFM800 16.00

16 Pannel Passive



PFB203W Junction box



RFM801 Passive HDCVI Balun with Power













Passive HDCVI Balun



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