

DH-HAC-HDW2231R-Z

2MP Starlight HDCVI IR Eyeball Camera





- · Starlight, 120dB true WDR, 3DNR
- · Max 30fps@1080P
- · HD and SD output switchable
- · 2.7-13.5mm motorized lens
- · Max. IR length 60m, Smart/IR
- · IP67, 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 higher 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-distance and real-time transmission without any loss. It supports up to soom for 1080P Full HD video via coaxial cable, and up to 300m via UT cable.*

*Actual results verified by real-scene testing ig behua'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 streem can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach entitles 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

Embedd with industry leading wide dynamic range (WDR) technology, vivid actures are achieved even in the most intense contrast lighting contions. True WDR (120dB) optimizes both the bright and dark areas of a same 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.

With working temperature range of-40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments.

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-HDW2231R-Z

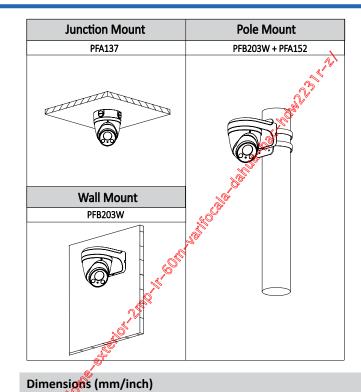
Camera						
Image Sensor	1/2.8" CMOS					
Effective Pixels	, 1937(H)×1097(V	'), 2.1MP				
Scanning System	Progressive					
	PAL: 1/4s~1/100	0000s				
Electronic Shutter Speed	NTSC: 1/3s~1/10					
Minimum Illumination	0.005Lux/F1.3, 3	BOIRE, OLux IR on				
S/N Ratio	More than 65dB					
IR Distance	Up to 60m (197f	eet)				
IR On/Off Control	Auto / Manual					
IR LEDs	2	2				
Lens	Lens					
Lens Type	Motorized lens /	Fixed iris				
Mount Type	Board-in					
Focal Length	2.7-13.5mm					
Max Aperture	F1.3					
Angle of View	H: 102°~29°					
Focus Control	Auto / Manual					
Close Focus Distance	200mm 7.87"					
200mm 7.87" DORI Distance Note: The DORI distance is a "general proximity" of distance which makes it has yet binpoint the right camera for your needs. The DORI distance is calculated based or sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.						
						Distance
		Wide	Tele			
	05 /	60				
Detect	25px/m (8px/ft)	47m(0254ft)	153m(502ft)			
Detect Observe		47m(054ft) 19m(62ft)	153m(502ft) 61m(200ft)			
	(8px/ft) 63px/m					
Observe	(8px/ft) 63px/m (19px/ft) 125px/m	19m(62ft)	61m(200ft)			
Observe Recognize	(8px/ft) 63px/m (19px/ft) 125px/m (38px/ft) 250pg/m	9m(30ft)	61m(200ft) 31m(102ft)			
Observe Recognize Identify	(8px/ft) 63px/m (19px/ft) 125px/m (38px/ft) 250pg/m	9m(30ft) 5m(16ft)	61m(200ft) 31m(102ft)			
Observe Recognize Identify Pan / Tilt / Rotation	(8px/ft) 63px/m (19px/ft) 125px/m (38px/ft) 250pm (700x/ft) Pan: 0° ~ 360° Tilt: 0° ~ 78°	9m(30ft) 5m(16ft)	61m(200ft) 31m(102ft)			
Observe Recognize Identify Pan / Tilt / Rotation Pan/Tilt/Rotation	(8px/ft) 63px/m (19px/ft) 125px/m (38px/ft) 250pm (700x/ft) Pan: 0° ~ 360° Tilt: 0° ~ 78°	9m(62ft) 9m(30ft) 5m(16ft)	61m(200ft) 31m(102ft)			
Observe Recognize Identify Pan / Tilt / Rotation Pan/Tilt/Rotation Video	(8px/ft) 63px/m (19px/ft) 125px/m (38px/ft) 250mm (760x/ft) Pan: 0° ~ 360° Tilt: 0° ~ 78° Rotation: 0° ~ 36	9m(62ft) 9m(30ft) 5m(16ft)	61m(200ft) 31m(102ft) 15m(49ft)			

	Day/Night	Auto (ICR) / Manual			
	OSD Menu	Multi-language BLC / HLC / WDR 120dB AGC 2D / 3D Auto / Manual			
	BLC Mode	BLC/HLC/WDR			
	WDR	120dB			
	Gain Control	AGC			
	Noise Reduction	2D / 3D			
	White Balance	Auto / Manual			
	Smart IR	Auto / Manual			
	Certifications				
	Certifications	CE EN55032, EN55024, EN50130-4) CC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)			
	Interface Audio Interface				
	Audio Interface	N/A			
	Eelectrical				
	Power Supply	12V DC ±25%			
	Power Consumption	Max 7.2W (12V DC, IR on)			
	Environmental				
j	Operating Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 90% RH * Start up should be done at above -40°C (-40°F)			
	Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH			
	Ingress Protection &Vandal Resistance	IP67			
	Construction				
	Casing	Aluminium			
	Dimensions	Ф122mm×104.9mm (Ф4.8"×4.13")			
	Net Weight	0.59kg (1.30lb)			

0.74kg (1.63lb)

Gross Weight

Ordering Information				
Туре	Part Number	Description		
2MP Camera	DH-HAC-HDW2231RP-Z	2MP Starlight HDCVI IR Eyeball Camera, PAL		
ZIVIP Calliela	DH-HAC-HDW2231RN-Z	2MP Starlight HDCVI IR Eyeball Camera, NTSC		
	PFA137	Junction box (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		
Accessories	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		



104.9 [4.13"]

Ø122.0 [4.8"]

Accessories

Optional:







Passive HDCVI Balun

with Power

PFM809-4CH

HDCVI Balun

4 Channel Passive



PFB203W Junction box



PFM820 **UTC** Controller

PFM800 16,000

16 Spannel Passive



PFM810 POC Transceiver

PFA152

Pole mount





Passive HDCVI Balun



3-04.5 [00.18"] @122.0 [@4.8"]

Ø84.0 [Ø3.31°]

