CVI-HDBW2221F 2MP WDR HDCVI IR Dome Camera

enna Contra

HDCVI

- \cdot 120dB true WDR, 3DNR
- · Max 30fps@1080P
- · HD and SD dual-output
- · 3.6mm fixed lens (2.8mm, 6mm optional)
- · Max. IR length 20m, Smart IR
- · IP67, IK10, DC12V



System Overview

Experience full HD 1080P video with the simplicity of using existing coaxial infrastructure. The camera features 120dB true WDR for applications under complex dynamic range and presents high quality image with clear details and accurate color rendition. It offers various motorized/fixed lens models with multi-language OSD and HD&SD dual-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-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.

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-outputs

The camera supports HDCVI and CVBS signal outputs simultaneously with two BNC connectors. Multi-outputs facilitates construction in such situations as debugging through a tester. It also offers the possibility for cooperating with multiple devices including analog matrix or monitor.

Smart IR

The camera is designed with IR LED 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.

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.

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Technical Specification

Camera

Smart IR

Callera		
Image Sensor	1/2.7" CMOS	
Effective Pixels	1928(H)×1088(V), 2.1MP	
Scanning System	Progressive	
Electronic Shutter Speed	PAL: 1.3s~1/30000s NTSC: 1s~1/30000s	
Minimum Illumination	0.03Lux/F2.0, 0Lux IR on	
S/N Ratio	More than 65dB	
IR Distance	Up to 20m (66feet)	
IR On/Off Control	Auto / Manual	
IR LEDs	10	
Lens		
Lens Type	Fixed lens / Fixed iris	
Mount Type	Board-in	
Focal Length	3.6mm (2.8mm, 6mm Optional)	
Max Aperture	F2.0	
Angle of View	H: 90° (115.6°/59.4°)	
Focus Control	N/A	
Close Focus Distance	800mm (500mm, 1800mm) 31.50'' (19.69'', 70.87'')	
Pan / Tilt / Rotation		
Pan/Tilt/Rotation	Pan: 0° ~ 60° Tilt: 0° ~ 80° Rotation: 0° ~ 360°	
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 CVBS tester out	
Day/Night	Auto (ICR) / Manual	
OSD Menu	Multi-language	
BLC Mode	BLC / HLC / WDR	
WDR	120dB	
Gain Control	AGC	
	20 / 20	
Noise Reduction	2D / 3D	

Auto / Manual

Certifications		
Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)	
Interface		
Audio Interface	Built-in Mic	
Eelectrical		
Power Supply	12V DC ±25%	
Power Consumption	Max 3.5W (12V DC, IR on)	
Environmental		
Operating Conditions	-30°C $^{\circ}$ +60°C (-22°F $^{\circ}$ +140°F) / Less than 90% RH * Start up should be done at above -30°C (-22°F)	
Storage Conditions	-30°C \sim +60°C (-22°F \sim +140°F) / Less than 90% RH	
Ingress Protection &Vandal Resistance	IP67 & IK10	
Construction		
Casing	Aluminium	
Dimensions	Ф106mm×50.3mm (Ф4.17"×1.98")	
Net Weight	0.30kg (0.66lb)	
Gross Weight	0.45kg (0.99lb)	

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Ordering Information

Туре	Part Number	Description	
2MP Camera	DH-HAC-HDBW2221FP 2.8mm	2MP WDR HDCVI IR Dome Camera, PAL	
	DH-HAC-HDBW2221FP 3.6mm		
	DH-HAC-HDBW2221FP 6mm		
	DH-HAC-HDBW2221FN 2.8mm	2MP WDR HDCVI IR Dome Camera, NTSC	
	DH-HAC-HDBW2221FN 3.6mm		
	DH-HAC-HDBW2221FN 6mm		
Accessories PFB	PFA139	Junction box (For use alone)	
	PFB204W	Wall mount (For use alone or with PFA152 pole mount)	
	PFA152	Pole mount (For use with PFB204W wall mount)	

Accessories

Optional:







PFA139 Junction box

PFB204W Wall mount

Junction Mount	Pole Mount
PFA139	PFB204W + PFA152
Wall Mount	
PFB204W	

Dimensions (mm/inch)

