

DH-HAC-HDBW2221E

2MP WDR HDCVI IR Dome Camera

HDCVI



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

stActual 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.

Pro Series | DH-HAC-HDBW2221E

Minimum Illumination O.03Lux/F2.0, OLux IR on More than 65dB R Distance R Distance Up to 30m (98feet) R On/Off Control Auto / Manual R LEDs Lens Lens Lens Mount Type Fixed lens / Fixed iris Mount Type Board-in 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 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 1-channel BNC HDCVI high definition video output
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Day/Night Auto (ICR) / Manual
SD Menu Multi-language
LC Mode BLC / HLC / WDR
/DR 120dB
Sain Control AGC
oise Reduction 2D / 3D
White Balance Auto / Manual
mart IR 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	N/A		
Eelectrical			
Power Supply	12V DC ±25%		
Power Consumption	Max 5.5W (12V DC, IR on)		
Environmental			
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)		
Storage Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH		
Ingress Protection &Vandal Resistance	IP67 & IK10		
Construction			
Casing	Aluminium		
Dimensions	Ф109.9mm×81.0mm (Ф4.33"×3.19")		
Net Weight	0.31kg (0.68lb)		

Ordering Information			
Туре	Part Number	Description	
	DH-HAC-HDBW2221EP 2.8mm	2MP WDR HDCVI IR Dome Camera, PAL	
	DH-HAC-HDBW2221EP 3.6mm		
2MAD Company	DH-HAC-HDBW2221EP 6mm		
2MP Camera	DH-HAC-HDBW2221EN 2.8mm		
	DH-HAC-HDBW2221EN 3.6mm	2MP WDR HDCVI IR Dome Camera, NTSC	
	DH-HAC-HDBW2221EN 6mm		
Accessories	PFA136	Junction box (For use alone)	
	PFB203W	Wall mount (For use alone or with PFA152 pole mount)	
	PFA152	Pole mount (For use with PFB203W wall mount)	

Accessories

Optional:







PFA136 Junction box

PFB203W Wall mount

PFA152 Pole mount

Junction Mount	Pole Mount
PFA136	PFB203W + PFA152
Wall Mount	
PFB203W	



