

DH-HAC-HDBW2231EP-B

2MP HDCVI IR Dome Camera



- · Max 30fps@1080P
- · HD and SD output switchable
- · 3.6mm fixed lens (2.8mm optional)
- · Max. IR length 30m, Smart IR
- · IP67, IK10, DC12V













System Overview

Experience 1080P full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 1080P HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various motorized/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance makes the camera an ideal choice for SMB solutions.

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 XVR, 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 real-time transmission at long distance without any loss. It supports up to 800m(1080p)/1200m(720P) transmission via coaxial cable, and up to 300m(1080P)/450m(720P) via UTP cable *

*This function is available for select models.

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.

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.

Multi-language OSD

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, 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 $\pm 30\%$ 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.

Technical S	pecification	1				Electronic De	efog	Yes		
Camera								Off/On		
Image Sensor		1/2.7 inch Cf	1/2.7 inch CMOS				ing	Off/On (8	8 area	
Effective Pixels	5	1920 (H) × 10	080 (V), 2MP			Certificati	ons			
Scanning Syste	m	Progressive						CE (EN55		
Electronic Shu	tter Speed	PAL: 1/25s-1/100000s NTSC: 1/30s-1/100000s				Certification	Certifications		3-3:2013, EN5 EN50130-4:20 FCC (CFR 47 FC UL (UL60950-2	
S/N Ratio		> 65dB				Port		01 (0100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Minimum Illum	nination	0.02Lux/F1.9, 30IRE, 0Lux IR on				Port Video o			ıtnut (
Fill Light Worki	ing Distance	30 m (98.4 ft)			VIGEO CHITDHI		BNC por			
IR On/Off Cont	rol	Auto; manual				Power				
IR LED Number	r	12				Power Supply		12V ±309	12V ±30% DC	
			Pan: 0°-355°			Power Consumption Ma		Max 3.4\	N (12	
Pan/Tilt/Rotat	ion Kange		Tilt: 0°–65° Rotation: 0°–355°				Environment			
Lens						()nerating lemnerature			-40°C to +60°C condensation)	
Lens Type		Fixed-focal	Fixed-focal				Storage Lemnerature		-40°C to +60°C condensation)	
Mount Type		M12						IP67, IK1		
Focal Length		2.8 mm; 3.6 mm				Structure				
Max. Aperture		F1.9						Diagtic d	Plastic dome o	
Field of View			2.8 mm: 119° x 101° x 54° (diagonal x horizontal x vertical) 3.6 mm: 100° x 84° x 45° (diagonal x horizontal x vertical)				Casing		φ109.9 mm × 8	
		3.6 mm: 100							0.31 Kg (0.68 l	
Iris Type		Fixed iris								
Close Focus Distance		2.8 mm: 0.5 m (1.7 ft) 3.6 mm: 0.8 m (2.6 ft)				Gross Weigh	t	0.45 Kg (0.99 I	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Ordering	Information			
	2.8 mm	38.6 m	15.4 m	7.7 m	3.9 m	Туре	Part Number		Des	
	3.6 mm	(126.6 ft) 49.7 m (163.1 ft)	(50.5 ft) 19.9 m	(25.3 ft) 9.9 m (32.5 ft)	(12.8 ft) 5 m (16.4 ft)	,, -	DH-HAC HDBV B 2.8mm	V2231EP-		
Video (163.1 ft) (65.3 ft) (32.5 ft)			(32.311)	(10.411)		DH-HAC HDBV B 2.8mm	V2231EP-			
		CVI: 1080P@)25/30fps; 720)fps:)P@25/30fps;		2MP Camera	DH-HAC-HDB\	W2231EP-	2MF	

	3.6 mm	(163.1 ft)	(65.3 ft)	(32.5 ft)	(16.4 ft)	
Video						
Frame Rate		CVI: 1080P@25/30fps; 720P@25/30fps; 720P@50/60fps; AHD: 1080P@25/30fps; 720P@25/30fps; TVI: 1080P@25/30fps; 720P@25/30fps; 720P@50/60fps; CVBS: 960H				
Resolution		1080P (1920×1080); 720P (1280×720); 960H (960×576/960×480)				
Day/Night		Auto switch by ICR				
BLC		BLC/HLC				
WDR		120dB WDR				
White Balance		Auto; manual				
Gain Control		Auto; manual				
Noise Reductio	on	2D NR				
Smart IR		Yes				

Electronic Defog	Yes
Mirror	Off/On
Privacy Masking	Off/On (8 area, rectangle)
Certifications	
Certifications	CE (EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN 55035:2017, EN50130-4:2011+A1:2014) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Port	
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Power	
Power Supply	12V ±30% DC
Power Consumption	Max 3.4W (12V DC, IR on)
Environment	
Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (noncondensation)
Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (noncondensation)
Protection Grade	IP67, IK10
Structure	
Casing	Plastic dome cover+metal upper casing+metal pedestal
Camera Dimensions	φ109.9 mm × 81.0 mm (φ4.33" × 3.19")
Net Weight	0.31 Kg (0.68 lb)
Gross Weight	0.45 Kg (0.99 lb)

Ordering Information					
Туре	Part Number	Description			
	DH-HAC HDBW2231EP- B 2.8mm				
2MP Camera	DH-HAC HDBW2231EP- B 2.8mm	2MP HDCVI IR Dome Camera			
ZIVIP Camera	DH-HAC-HDBW2231EP- B 3.6mm				
	DH-HAC-HDBW2231EP- B 3.6mm				
	PFA136	Junction box			
	PFB203W	Wall Mount Bracket (For use alone or with PFA152-E)			
	PFA152-E	Pole Mount Bracket (For use with PFB203W)			
Accessories	PFA106	Mount Adapter (For use with PFB220C)			
	PFB220C	Ceiling Mount Bracket (For use with PFA106)			
	PFM800-E	Passive HDCVI Balun			
	PFM321D	12V 1A Power Adapter			
	PFM904	Integrated Mount Tester			

Accessories

Optional:



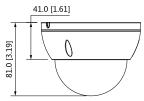
PFA136 Junction box



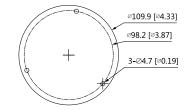
PFB203W Wall Mount Bracket (For use alone or with PFA152-E)



PFA152-E Pole Mount Bracket (For use with PFB203W)



Dimensions (mm[inch])





PFA106 Mount Adapter (For use with PFB220C)



PFB220C Ceiling Mount Bracket (For use with PFA106)



PFM800-E Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount	Hanging Mount	
PFA136	PFB203W	PFB203W+PFA152-E	PFA106+PFB220C	