

DH-HAC-HDBW2231RP-BVF

2MP HDCVI IR Dome Camera



System Overview

The Cooper Series offers simple and highly cost-effective HDCVI solutions. It provides 24/7 reliable monitoring with high-quality image performance, saving cost on both material and labor force. It is also designed and built to the specific standards of Dahua.

Functions

Smart IR Illumination

With its IR illumination, the camera provides optimal performance in low light conditions, ensuring uniformity in the brightness of B/W images. Through its smart IR technology, the camera also compensates for the distance of targets by adjusting the intensity of its IR LEDs, preventing overexposure of images as targets move closer to the camera.

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals (video, audio*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and quick to install.

* Audio input is available for select HDCVI camera models.

Long Distance Transmission

HDCVI technology provides long distance transmission in real-time without transmission loss. It supports transmission distances up to 700 m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables. The results were obtained and verified through rigorous testing in Dahua's test laboratory.

- Max. 30 fps@1080p
- CVI/CVBS/AHD/TVI switchable
- 2.7-12 mm vari-focal lens
- Max. IR length 30 m, Smart IR
- IP67,12 VDC



Protection

IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes. Wide voltage: The camera has \pm 30% input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

Multi-language OSD

The OSD offers multiple functions to meet the many requirements of a monitoring scene, such as backlight mode, day/night mode, white balance, privacy mask, and motion detection. 11 languages are available for OSD: Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

Simplicity

HDCVI technology inherits the simplicity of traditional analog surveillance systems, making it a great mechanism for protecting your valuables. HDCVI can be upgraded from the traditional analog system without replacing the existing coaxial cabling. Its plug and play design enables it to produce high-definition videos during surveillance without the hassle of configuring a network.

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Technical Specification

Camera						
Pixel		2 MP				
Image Sensor		2MP CMOS				
Max. Resolution		1920 (H) × 1080 (V)				
Scanning System		Progressive				
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s				
Min. Illumination		0.04 lux@F1.7 (Color, 30 IRE) 0.004 lux@F1.7 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>65 dB				
Illumination Distance		30 m (98.43 ft)				
Illuminator On/Off Control		Auto/Manual				
Illuminator Number		2 (IR light)				
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75° Rotation: 0°–355°				
Lens						
Lens Type		Manual Vari-focal				
Lens Mount		φ14				
Focal Length		2.7- 12 mm				
Max. Aperture		F1.7				
Field of View	Field of View		H: 102°–32°; V: 54°–18°; D: 121°–37°			
Iris Control	Iris Control		Fixed			
Close Focus I	Distance	0.8 m (2.62 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	W	45.5 m (149.28 ft)	18.2 m (59.71 ft)	9.1 m (29.86 ft)	4.6 m (15.09 ft)	
	т	137.9 m (452.43 ft)	55.2 m (181.10 ft)	27.6 m (99.55 ft)	13.8 m (45.28 ft)	

Noise Reduction	2D NR			
Smart Illumination	Yes			
Mirror	Yes			
Privacy Masking	Off/On (8 areas, rectangle)			
Certification				
Certifications	CE (EN55032:2015, EN61000-3-2:2014, EN61000- 3-3:2013, EN55024:2010+A1:2015, EN55035:2017, EN50130-4:2011+A1:2014, EN62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)			
Port				
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port			
Power				
Power Supply	12 VDC ± 30%			
Power Consumption	Max. 3.5 W (12 VDC, IR on)			
Environment				
Operating Temperature	-30 °C to +60 °C (-22 °F to 140 °F)			
Operating Humidity	<95% (RH), non-condensing			
Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)			
Protection	IP67			
Structure				
Casing	Plastic			
Product Dimensions	Φ122 mm × 97.6 mm (Φ4.80" × 3.84")			
Packaging Dimensions	147 mm × 138 mm × 135 mm (5.79" × 5.43" × 5.31")			
Net Weight	0.30 kg (0.66 lb)			
Gross Weight	0.42 kg (0.93 lb)			
Installation	Wall mount; ceiling mount; horizontal pole mount			

Video

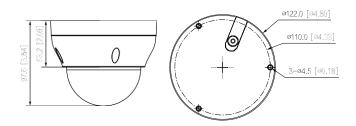
Video Frame Rate	CVI: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps TVI: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps AHD: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps CVBS: PAL: 960H NTSC: 960H	
Resolution	1080p (1920 × 1080); 720p (1280 × 720); 960H (960 × 576/960 × 480)	
Day/Night	Auto (ICR)/Color/B/W	
BLC	BLC; HLC; DWDR	
WDR	WDR	
White Balance	Auto; Area white balance	
Gain Control	Auto/Manual	

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Ordering Information

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Туре	Part Number	Description	
2MP Camera	DH-HAC-HDBW2231RP- BVF	2MP HDCVI IR Dome Camera, PAL	
	DH-HAC-HDBW2231RN- BVF	2MP HDCVI IR Dome Camera, NTSC	
	PFA137	Junction Box	
	PFB203W+PFA152-E	Pole Mount Bracket	
	PFB203W	Wall Mount Bracket	
Accessories (Optional)	PFA106+PFB220C	Ceiling Mount Bracket	
	PFM800-E	Passive HDCVI Balun	
	PFM321D	12V 1A Power Adapter	
	DEMO04	Integrated Mount Tester	

Dimensions (mm[inch])



Accessories

Optional:



PFA137 Junction Box



PFA106+PFB220C Ceiling Mount Bracket



PFM904 Integrated Mount Tester

Wall Mount



PFB203W+PFA152-E Pole Mount Bracket



PFM800-E Passive HDCVI Balun



PFB203W Wall Mount Bracket



PFM321D 12V 1A Power Adapter

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Pole Mount(Vertical)