

DH-HAC-B3A21-Z

2MP HDCVI IR Bullet Camera



- Max 30fps@1080P
- CVI/CVBS/AHD/TVI switchable
- 2.7-12mm motorized lens
- Max. IR length 40m, Smart IR
- IP67, 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-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 most end users' existing HD/SD DVRs.

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 -30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting ±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.

Cooper Series | DH-HAC-B3A21-Z

Technical Specification						Noise Reduction		2D NR	
Camera						Smart IR		Yes	
Image Sensor		1/2.7 inch CMOS				Electronic Defog		Yes	
Effective Pixels		1920(H)×1080(V), 2MP				Mirror		Off/On	
Scanning System		Progressive				Privacy Masking		Off/On (8 area, rectangle)	
Electronic Shutter Speed		PAL: 1/25s–1/100000s NTSC: 1/30s–1/100000s				Certifications			
S/N Ratio		>65dB				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)	
Minimum Illumination		0.04lux/F1.7, 30IRE, 0Lux IR on				Port			
Fill Light Working Distance		40m (131.2ft)				Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
IR On/Off Control		Auto; manual				Power			
IR LED Number		2				Power Supply		12V ±30% DC	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Power Consumption		Max 6.6W (12V DC, IR on)	
Lens						Environment			
Lens Type		Motorized vari-focal				Operating Temperature		-30°C to +60°C (-22°F to 140°F);<95% (non-condensation)	
Auto Focus		N/A				Storage Temperature		-30°C to +60°C (-22°F to 140°F);<95% (non-condensation)	
Mount Type		φ14				Protection Grade		IP67	
Focal Length		2.7 mm-12 mm				Structure			
Max. Aperture		F1.7				Casing		Metal front cover+plastic main body+plastic bracket	
Field of View		Diagonal: 38°– 125° Horizontal: 33°–102° Vertical: 19°– 53°				Camera Dimensions		243.5 mm × Φ90.70 mm × 90.4 mm (9.59" × Φ3.57" × 3.56")	
Iris Type		Fixed iris				Net Weight		0.39 kg (0.86 lb)	
Close Focus Distance		1.2 m (3.9 ft)				Gross Weight		0.53 kg (1.17 lb)	
DORI Distance		Detect	Observe	Recognize	Identify				
	2.7mm	48.3m (158.5ft)	19.3 m (63.3 ft)	9.7 m (31.8 ft)	4.8 m (15.7ft)				
	12mm	131 m (429.8 ft)	52.4 m (171.9 ft)	26.2 m (86.0 ft)	13.1 m (43.0 ft)				
Video						Ordering Information			
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				Type	Part Number	Description	
Resolution		1080P (1920×1080); 720P (1280×720); 960H (960×576/960×480)				2MP Camera	DH-HAC-B3A21P-Z 2.7-12mm	2MP HDCVI IR Bullet Camera	
Day/Night		Auto switch by ICR					DH-HAC-B3A21N-Z 2.7-12mm		
BLC		BLC/HLC/DWDR				Accessories	PFA13G	Junction box	
WDR		DWDR					PFA130-E	P66 Junction box (For use alone or with PFA152-E pole mount)	
White Balance		Auto; manual					PFA152-E	Pole Mount Bracket (For use with PFA130-E junction box)	
Gain Control		Auto; manual					PFM321D	12V 1A Power Adapter	
							PFM904	Integrated Mount Tester	
							PFM800-E	Passive HDCVI Balun	
						PFM820	UTC Controller		

Cooper Series | DH-HAC-B3A21-Z

Accessories

Optional:



PFA13G
Junction box



PFA130-E
P66 Junction box (For use
alone or with PFA152-E
pole mount)



PFA152-E
Pole Mount Bracket
(For use with PFA130-E
junction box)



PFM321D
12V 1A Power Adapter



PFM904
Integrated Mount Tester

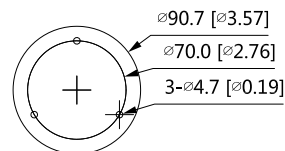
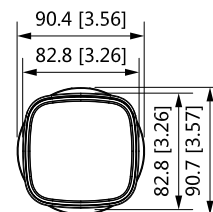
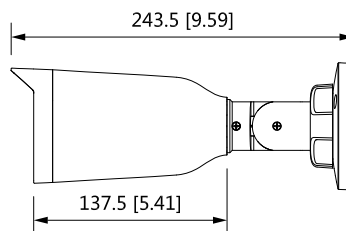


PFM800-E
Passive HDCVI Balun



PFM820
UTC Controller

Dimensions (mm[inch])



Ceiling Mount	Junction Mount	Pole Mount(Vertical)