

2 MP HDCVI Fixed Bullet Camera

2 MP HDCVI IR Bullet Camera

HDCVI



- Maximum 1080p at 30 fps Resolution
- HD and SD Switchable Output
- Supports Multiple Video Formats: HDCVI, CVBS, AHD and TVI
- 2.8 mm or 3.6 mm Fixed Lens Options
- Maximum IR Length 40 m (130 ft) with Smart IR
- IP67 Environmental Protection
- Five-year Warranty*



System Overview

Experience the superior clarity of Full HD 1080p video while leveraging your existing coaxial infrastructure. The camera features Smart IR technology to deliver clear images in near total darkness. The camera offers a multi-language on-screen display and HD and SD dual-output. The outstanding performance and low price make the camera an ideal choice for small businesses that value surveillance.

Functions

Three Signals over a Single Coaxial Cable

HDCVI technology simultaneously transmits video, power, and data over a single coaxial cable. Dual-way data transmission allows the HDCVI camera to communicate with an HCVR to send control signals or to trigger alarms. HDCVI along with PoC technology delivers power¹ to devices at the edge, simplifying installation.

Long Distance Transmission

HDCVI technology guarantees real-time transmission over long distances without loss of video quality. HDCVI cameras provide the same resolution as most IP network camera systems using existing RG-59, RG-6, or CAT 6 UTP cabling.

Simplicity

HDCVI technology seamlessly integrates traditional analog surveillance systems with upgraded, high-quality HD video, making it the best choice to protect security investments. The plug and play approach enables full HD video surveillance without the hassles of configuring a network.

Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 40 m (130 ft).

Multi-format Support

The camera supports multiple video formats including, HDCVI, CVBS, AHD, and TVI. The camera can switch between these four formats via the OSD menu or via a UTC controller (PFM820), making the camera compatible with not only HCVRs but also most existing HD/SD DVRs.

Multi-language OSD

The 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 detection and offers Chinese, English, French, German, Spanish, Italian, Japanese, Korean, Russian, Polish, and Portuguese variations.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

With a working temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting ±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.

1. Requires PoC Transceivers for each channel and an external power supply for each transceiver.

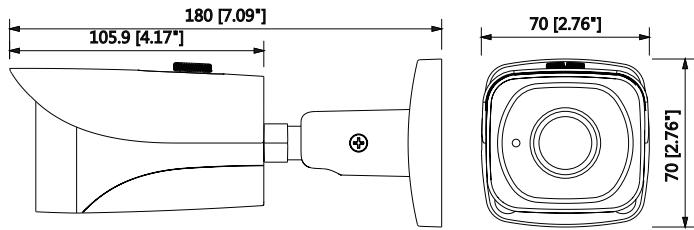
Technical Specification			Certifications	
Camera			Safety	EN55032, EN55024, EN50130-4 UL60950-1+CAN/CSA C22.2 No.60950-1
Image Sensor				Electromagnetic Compatibility (EMC) FCC CFR 47 FCC Part 15 Subpart B ANSI C63.4-2014
Effective Pixels			Electrical	
Scanning System			Power Supply	12 VDC ±25%
Electronic Shutter Speed			Power Consumption	Max 4.6 W (12 VDC with IR on)
Minimum Illumination			Environmental	
S/N Ratio			Operating Conditions	-40° C to +60° C (-40° F to +140° F), Less than 95% RH Initiate startup above -40° C (-40° F)
IR Distance			Storage Conditions	-40° C to +60° C (-40° F to +140° F), Less than 95% RH
IR On/Off Control			Ingress Protection	IP67
IR LEDs			Construction	
Lens			Casing	Aluminium
Lens Type			Dimensions	180.0 mm x 70.0 mm x 70.0 mm (7.09 in. x 2.76 in. x 2.70 in.)
Mount Type			Net Weight	0.35 kg (0.77 lb)
Focal Length			Gross Weight	0.44 kg (0.97 lb)
Max Aperture				
Angle of View				
Close Focus Distance				
Pan / Tilt / Rotation				
Range				
Video				
Resolution				
Frame Rate				
Video Output				
Video Transmission ²				
Day/Night				
OSD Menu				
BLC Mode				
WDR				
Gain Control				
Noise Reduction				
White Balance				
Smart IR				

². Transmission distance results verified by real-scene testing in Dahua's test laboratory. Actual transmission distances may vary due to external influences, cable quality, and wiring structures.

Ordering Information

Type	Part Number	Description
2 MP Camera	A21BB02	2 MP HDCVI IR Bullet Camera, 2.8 mm
	A21BB03	2 MP HDCVI IR Bullet Camera, 3.6 mm
Accessories, optional	PFA121	Junction box (For use alone or with PFA152 pole mount)
	PFA152	Pole mount (For use with PFA121 junction box)
	PFM321	12 VDC, 1 A Power Adapter
	PFM810	PoC Transceiver
	PFM820	UTC Controller

Dimensions (mm/inch)



Accessories

Optional:



PFA121
Junction box



PFA152
Pole mount



PFM820
UTC Controller



PFM321
Power Adapter



PFM810
PoC Transceiver

Junction Mount	Pole Mount
PFA121	PFB121 + PFA152
