

2 MP HDCVI Vari-focal Dome Camera

2 MP HDCVI IR Dome Camera



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.

- 2 MP at 30 fps Maximum Resolution
- HD and SD Switchable Output
- Supports Multiple Video Formats: HDCVI, CVBS, AHD and TVI
- 2.7 mm to 13.5 mm Vari-focal Lens
- Maximum IR Length 30 m (98 ft) with Smart IR
- IP67 Environmental Protection and IK10 Vandal Resistance
- Designed for Extreme Temperature Environments
- Five-year Warranty*



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 30 m (98 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 HDCVI DVRs 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. 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 55 kg (120 lbs) of force.

With a built-in heater and 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				
Camera				
Image Sensor	1/2.9-in. CMOS	1/2.9-in. CMOS		
Effective Pixels	1920(H) x 1280(V), 2 MP			
Scanning System	Progressive			
Electronic Shutter Speed	1/30 s to 1/100000 s			
Minimum Illumination	Color: 0.02 Lux at F1.3			
S/N Ratio	0 Lux (with IR on) More than 65 dB			
IR Distance	Up to 30 m (98.42 ft)			
IR On/Off Control	Auto, Manual			
IR LEDs	Two (2)			
	1 w0 (2)			
Lens				
Lens Type	Vari-focal Lens / Fixed Iris			
Mount Type	Board-in			
Focal Length	2.7 mm to 13.5 mm			
Max Aperture	F1.3			
Horizontal Angle of View	104° to 27°			
Focus Control	Manual			
Close Focus Distance	200 mm (7.87 in.)	200 mm (7.87 in.)		
Pan / Tilt / Rotation				
Range	Pan: 0° to 355° Tilt: 0° to 75° Rotation: 0° to 355°			
Video				
Resolution	2 MP (1920 x 1080)			
Frame Rate	2 MP at 30 fps 720p at 30/60 fps			
Video Output	720p at 30/60 tps One (1) BNC HDCVI High-definition Channel, or One (1) BNC CVBS, AHD, or TVI Channel, switchable			
	RG-59/U Coax	720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft)		
Video Transmission ²	RG-6/U Coax	720p: 1200 m (3937.01 ft) 1080p: 800 m (2624.67 ft)		
	CAT 6 UTP (balun required)	720p: 450 m (1476.38 ft) 1080p: 300 m (984.25 ft)		
Day/Night	Auto (ICR), Manua	Auto (ICR), Manual		
OSD Menu	Multi-language			
BLC Mode	BLC, HLC, DWDR			
WDR	Digital WDR			
Gain Control	AGC			
Noise Reduction	2D			
White Balance	Auto, Manual			

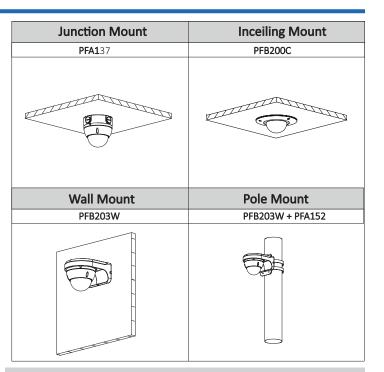
Auto, Manual

Smart IR

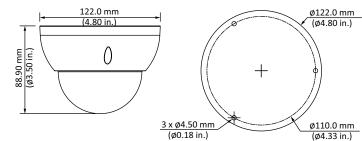
certifications		
Safety	EN55032, EN55024, EN50130-4 UL60950-1+CAN/CSA C22.2 No.60950-1	
Electromagnetic Compatibility (EMC)	FCC CFR 47 FCC Part 15 Subpart B ANSI C63.4-2014	
Electrical		
Power Supply	12 VDC ±25%	
Power Consumption	Maximum 3.4 W (12 VDC with IR on)	
Environmental		
Operating Conditions	-40° C to +60° C (-40° F to +140° F), Less than 95% RH Initiate startup above -40° C (-40° F)	
Storage Conditions	-40° C to +60° C (-40° F to +140° F), Less than 95% RH	
Ingress Protection	IP67	
Vandal Resistance	IK10	
Construction		
Casing	Aluminium	
Dimensions	ø122.0 mm × 88.90 mm (ø4.80 in. x 3.50 in.)	
Net Weight	0.40 kg (0.88 lb)	
Gross Weight	0.55 kg (1.21 lb)	

Lite Series | A21BM0V

Ordering Information		
Туре	Part Number	Description
2 MP Camera	A21BM0V	2 MP HDCVI IR Dome Camera
Accessories, optional	PFM321	12 VDC, 1 A Power Adapter
	PFA137	Junction box (For use alone)
	PFA152	Pole mount (Use with PFB203W wall mount)
	PFB200C	In-ceiling Mount
	PFB203W	Wall mount (Use alone or with PFA152 pole mount)
	PFM800	Passive HDCVI Balun
	PFM801	Passive HDCVI Balun with Power
	PFM810	PoC Transceiver
	PFM820	UTC Controller



Dimensions (mm/inch)



Accessories

Optional:



PFA137 Junction Box



PFB200C In-ceiling Mount



PFM810 PoC Transceiver



PFB203W Wall Mount



PFM800 Passive HDCVI Balun



PFM820 UTC Controller



PFM801

Passive HDCVI Balun

u**m**e anno.

PFA152

Pole Mount

PFM321 Power Adapter

