

# BM1200F-IL-A

2MP Smart Dual Light HDCVI Fixed-focal Bullet Camera

## HDCVI



### Functions

#### Smart Dual Light

With its smart dual light mechanism, the camera automatically turns on the white light when Perimeter Protection/SMD Plus function of AI XVR detects a target in the rule area to capture clear, vivid images. When the target leaves the rule area, the camera automatically switches over from the white light to the IR light to significantly reduce light pollution.

#### Broadcast-quality Audio

Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence.

#### Super Adapt

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

#### Advanced 3DNR

Advanced 3DNR technology reduces image noise with little to no impact on image sharpness, especially in poor lighting conditions. It detects the noise, and compares the sequential frames to effectively reduce the noise. It also makes efficient use of bandwidth, saving on storage space.

#### Protection (IP67, Wide Voltage)

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.

### 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 laboratory.

Camera					
Image Sensor	2 MP CMOS				
Max. Resolution	1920 (H) × 1080 (V)				
Scanning System	Progressive				
Electronic Shutter Speed	PAL: 1/25 s–1/100000 s NTSC: 1/30 s–1/100000 s				
Min. Illumination	0.01 Lux@F2.0 (Color, 30 IRE)				
	0.001 Lux@F2.0 (B/W, 30 IRE)				
	0 Lux (Illuminator on)				
S/N Ratio	>65 dB				
Illumination Distance	IR: 40 m (131.23 ft)				
	Warm Light: 40 m (131.23 ft)				
Illuminator On/Off Control	Auto				
Illuminator Number	2 (Warm Light); 2 (IR light)				
Angle Adjustment	Pan: 0°–360°				
	Tilt: 0°–90°				
	Rotation: 0°–360°				
Lens					
Lens Type	Fixed-Focal				
Auto Focus	No				
Lens Mount	M12				
Focal Length	3.6 mm				
Max. Aperture	F2.0				
Field of View	H: 83°; V: 48°; D: 105°				
Iris Control	Fixed				
Close Focus Distance	0.7 m (2.30 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	3.6 mm	50.9 m	20.3 m	10.2 m	5.1 m
		166.99 ft	66.60 ft	33.46 ft	16.73 ft

Video		
Video Frame Rate	CVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps;	
	AHD: PAL: 1080p@25 fps; NTSC: 1080p@30 fps;	
	TVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps;	
	CVBS: PAL: 960H; NTSC: 960H	
	Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)
	Day/Night	Auto(ICR)/Color/B/W
	BLC	BLC; HLC; DWDR
	WDR	DWDR
	White Balance	Auto;Area White Balance
	Gain Control	Auto
Noise Reduction	3D NR	
Illumination Mode	Smart IR&WL; WL Mode; IR Mode	
Mirror	Yes	
Privacy Masking	Off/On (8 Areas, Rectangle)	
Port		
Video Output	Video Output Choices of CVI/TVI/AHD/CVBS By One BNC Port	
Audio Input	1 Channel	
Power		
Power Supply	12 VDC ± 30%	
Power Consumption	Max 4.1W (12 VDC, IR On)	
Environment		
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	<95% (RH), Non-Condensing	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Storage Humidity	<95% (RH), Non-Condensing	
Protection	IP67	
Structure		
Casing Material	Metal Front Cover + Plastic Rear Barrel + Metal Bracket	
Product Dimensions	198.4 mm × 80.2 mm × 76.2 mm (7.81" × 3.16" × 3")	
Net Weight	0.29 kg (0.64 lb)	
Gross Weight	0.41 kg (0.90 lb)	
Installation	Wall Mount; Ceiling Mount; Vertical Pole Mount	

Dimensions (mm[inch])

