AMX-3181R-IR-ZA



4K Starlight HDCVI Motorized Vari-focal IR Bullet Camera



System Overview

IMAXCAMPRO Series is a great choice for consumers looking for high quality monitoring products at a reasonable price. Its low cost and high performance make it ideal for residential areas and SMB solutions. This series is equipped with a wide range of technologies, such as full-color and starlight, providing various solutions for different

scenarios. Functions

Wide Dynamic Range

With its advanced Wide Dynamic Range technology (WDR), the camera captures highly detailed images and produces high-definition recordings in high-contrast lighting conditions, and in scenes with backlighting or shadows.

Advanced 3DNR

IMAXCAMPRO 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.

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.

Super Adapt

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

- Max. 15 fps@4K.
- 120 dB true WDR, 3D NR.
- Smart IR Illumination.
- 80 m illumination distance.
- Super Adapt.
- Built-in MIC.
- Auto focus, 2.7 mm-13.5 mm motorized lens.
- · CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.



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.

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 ±30% input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

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.

Technical Specification

Camera

Camera						
Pixel		8 MP				
Image Sensor		4K CMOS				
Max. Resolution		3840 (H) × 2160 (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@F1.5 (Color, 30 IRE) 0.001 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>65 dB				
Illumination Distance		80 m (262.47 ft)				
Illuminator On/Off Control		Auto/Manual				
Illuminator Number		4 (IR light)				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Lens						
Lens Type		Motorized Vari-focal				
Auto Focus		Yes				
Lens Mount		ф14				
Focal Length		2.7 mm–13.5 mm				
Max. Aperture		F1.5				
Field of View		Horizontal: 114°–32° Vertical: 58°–17° Diagonal: 138°–36°				
Iris Control		Fixed				
Close Focus Distance		0.8m				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	W	85.3 m (279.86 ft)	34.1 m (111.88 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)	
	Т	280.0 m (918.64 ft)	112.0 m (367.45 ft)	56.0 m (183.73 ft)	28.0 m (91.87 ft)	
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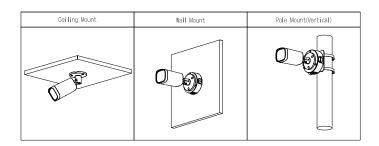
BLC	BLC; HLC; WDR; HLC-Pro				
WDR	120 dB				
White Balance	Auto;Area white balance				
Gain Control	Auto/Manual				
Noise Reduction	3D NR				
Motion Detection	Yes				
Illumination Mode	Smart IR				
Defog	Electronic defog				
Digital Zoom	4×				
Mirror	Yes				
Privacy Masking	Off/On (8 areas, rectangle)				
Certification					
Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B; UL: UL62368-1 + CAN/CSA C22.2 No. 62368-1-14				
Port					
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port				
Audio Input	One channel built-in MIC (-A)				
Power					
Power Supply	12 VDC \pm 30% (It is recommended to use a power adapter to supply the power for one camera)				
Power Consumption	Max 10.6W (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 Material	Metal				
Product Dimensions	90.4 mm × 90.1mm ×209.6 mm (3.56" × 3.55" × 8.25")				
Net Weight	0.55 kg (1.21 lb)				
Gross Weight	0.72 kg (1.59 lb)				
Installation	Wall mount; ceiling mount; vertical pole mount				

Video

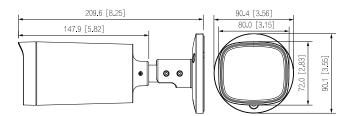
Video Frame Rate	CVI: PAL: 4K@15 fps; 5M@25 fps; 4M@25 fps; 1080p@25 fps NTSC: 4K@15 fps; 5M@25 fps; 4M@30 fps; 1080p@30 fps TVI: PAL: 4K@15 fps NTSC: 4K@15 fps AHD: PAL: 4K@15 fps NTSC: 4K@15 fps CVBS: PAL: 960H NTSC: 960H	
	N13C. 900H	
Resolution	4K (3840 x 2160); 5M (2880 x 1620); 4M (2560 x 1440); 1080p (1920 x 1080); 960H (960 x 576/960 x 480)	
Day/Night	Auto(ICR)/Color/B/W	

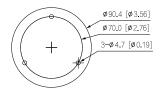
Ordering Information

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Туре	Part Number	Description
	HCC3181R-IR-ZA-S2	4K HDCVI IR Bullet Camera, PAL
4K Camera	HCC3181R-IR-ZA-S2	4K HDCVI IR Bullet Camera, NTSC
	PFA130-E	Water-proof Junction Box
	PFA152-E	Pole Mount Bracket
Accessories (Optional)	PFM800-4K	1-CH Passive Video Balun
	PFM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester



Dimensions (mm[inch])





Accessories

Optional:



PFA130-E Water-proof Junction Box



Pole Mount Bracket