

IP8M-DB3946EW-3AI

8MP Smart Dual Light Deterrence Fixed-focal Bullet Network Camera

Technical Specifications

Model	IP8M-DB3946EW-3AI				
Camera					
Image Sensor	1/2.8" CMOS				
Max. Resolution	3840 (H) × 2160 (V)				
ROM	128 MB				
RAM	512 MB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s				
Min. Illumination	0.004 lux@F1.0 (Color, 30 IRE)0.0004 lux@F1.0 (B/W, 30 IRE)0 lux (illuminator on)				
S/N Ratio	> 56 dB				
Illumination Distance	IR: 98.43 ft, Warm Light: 98.43 ft				
Illuminator On/Off Control	Auto/Manual				
Illuminator Number	2 (IR LED), 2 (warm light)				
IR Wavelength	850nm				
White Light Lumens	150lm@350mA				
Angle Adjustment	Pan: 0°–360°Tilt: 0°–90°Rotation: 0°–360°				
Lens					
Lens Type	Fixed-focal				
Mount Type	M12				
Focal Length	2.8 mm				
Field of View	H: 106°; V: 55°; D: 125°				
Iris Type	Fixed				
Close Focus Distance	6.56ft				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	298.56ft	119.42ft	59.71ft	29.86ft
Note: The DORI distance calculated based on sensor specification and lab test result 62676-4 which defines the criteria for Detect, Observe, Recognize, and Identify.					
AI					
IVS	Tripwire/Intrusion				
Smart Motion Detection	Human/Vehicle				
Quick Pick	Supported with applicable NVR (Local GUI)				
AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.				
Video					
Video Compression	H.265, H.264				
Smart Codec	Supported				

AI Coding	Supported
Video Frame Rate	Main stream: 3840 × 2160@(1 fps–30 fps)Sub stream: 704 × 576@(1 fps–25 fps)/704 × 480@(1 fps–30 fps)Third stream:1920 × 1080@(1 fps–30 fps)*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity
Stream Capability	3 streams
Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520/2560 × 1440); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32kbps–8192 kbps H.265: 12kbps–8192 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
Scene Self-adaptation	Yes
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto; manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas)
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Mirror	Yes
Privacy Masking	8 areas
Audio	
Built-in Mic	Supported
Built-in Speaker	Supported
Compression	PCM; G.711A; G.711Mu; G.726; AAC; G.723
Network	
Ethernet	RJ-45 (10/100 Base-T)
SDK and API	Supported
Protocol	IPv4, IPv6, HTTP, TCP, UDP, RTSP, TCP, RTMP, SMTP, FTP, DHCP, DDNS, UPnP, NTP
Max. User Access	20 Users
Storage	SFTP, FTP, MicroSD Card (Up to 256GB), NAS
Management Software	Amcrest Orion Software, Amcrest Surveillance Pro, Amcrest View Pro, Amcrest View Pro 2 (iOS/Android), Amcrest Cloud, Amcrest Blue Iris, most mainstream web browsers including Google Chrome, Mozilla Firefox, Microsoft Edge, Safari, etc.
Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)

Alarm Input	1 channel in: 5mA 3V–5 VDC
Alarm Output	1 channel out: 300mA 12 VDC
General	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic: 4.5 W (12 VDC); 5.5 W (PoE) Max. (pulling stream + warning light+speaker+warm light on): 7.6 W (12 VDC); 9.1 W (PoE)
Operating Conditions	–40 °F to +140 °F)/Less than 95% RH
Storage Conditions	–40 °F to +140 °F
Mounting Brackets	Junction Box: AMCPFA135 or AMCPFA130-E, Pole Mounting: AMCPFA130-E + AMCPFA152-E
Protection Grade	IP67
Casing	Metal + plastic
Dimensions (L x W x H)	11.35" × 3.72" × 3.33"
Net Weight	2.20 lbs.