

IP4M-PB181EW-AI

Amcrest 4MP UltraHD Network Security Bullet Camera

Technical Specifications

Model	IP4M-PB181EW-AI				
Camera					
Image Sensor	1 2.7" CMOS				
Effective Pixels	2880 (H) × 1620 (V)				
ROM	128 MB				
RAM	512MB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000s				
Minimum 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	> 56dB				
IR Distance	65.62 (20m)				
IR On/Off Control	Auto				
IR LEDs	2				
Pan/Tilt/Rotation Range	Pan: 0° - 360°, Tilt: 0° - 90°, Rotation: 0° - 360°				
Lens					
Lens Type	Fixed-focal				
Mount Type	M12				
Focal Length	2.1mm				
Max. Aperture	F2.0				
Field of View	LDC is disabled: Horizontal: 180°; Vertical: 78°; Diagonal: 180° LDC is enabled (by default): Horizontal: 170°; Vertical: 75°; Diagonal: 175°				
Close Focus Distance	1.97ft (0.6m)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.1mm	170.60ft	68.24ft	34.12ft	17.06ft
	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.				
Video					
Compression	H.264				
Smart Codec	Supported				
Video Frame Rate	Main stream: 2880 × 1620 @ (1–20 fps)/2688 × 1520 @(1–25/30 fps)sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps)third stream:1920 × 1080 @ (1–25/30 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	5M (2880 × 1620); 4M (2688 × 1520/2560 × 1440); 3M (2048 × 1536); 2304 × 296 ; 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: 3 kbps–8192 kbps				

Day/Night	Auto (ICR)/Color/B/W
BLC	Supported
HLC	Supported
WDR	120dB
Scene Self-Adaption	Supported
White Balance	Auto/natural/streetlamp/outdoor/manual/regional custom
Gain Control	Auto; Manual
Noise Reduction	3D NR
Motion Detection	Off/On (4 areas, rectangular)
Perimeter Protection	IVS (Tripwire/Intrusion)
Smart Motion Detection	Human/Vehicle Detection
Smart IR	Supported
Image Rotation	0°/90°/180°/270° (support 90°/270° with 2688×1520 resolution and lower)
Mirror	Supported
Privacy Masking	Up to 4 Areas
Audio	
Built-in Mic	Supported
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
Network	
Ethernet	RJ-45 (10/100 Base-T)
SDK and API	Supported
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; RTSP; FTP; DHCP; DNS; DDNS; UPnP; NTP
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
User/Host	20
Edge Storage	SFTP/FTP, NAS, MicroSD Card (Up to 256GB)
Management Software	Amcrest Surveillance Pro, Amcrest View Pro (iOS/Android), Amcrest Cloud, Amcrest Blue Iris, most mainstream web browsers including Google Chrome, Mozilla Firefox, Microsoft Edge, Safari, etc.
General	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic: 3.1 W (12 V DC); 5.3 W (PoE) Max.: 4 W (12V DC); 6.5 W (PoE)
Operating Conditions	-40°F to 140°F
Ingress Protection	IP67
Storage Conditions	-40°F to 140°F
Casing	Metal
Mounts	Junction Mount: AMCPFA130-E, AMCPFA135 Pole Mount: AMCPFA152-E + AMCPFA130-E
Dimensions (L x W x H)	9.81" × 3.57" × 3.56" (249.3 mm × 90.7 mm × 90.4 mm)
Net Weight	1.81 lbs.