



MPIX-16MP180IRAI

4x4MP Multi-Sensor Splicing Panoramic Bullet Network Camera



Features:

- 4x4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image
- Output max. 16 MP (5520 × 2700)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate
- Three streams for HD video display
- Built-in IR LED, and the max. illumination distance is 30m/98.43ft
- 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- ROI, SMART H.264+/H.265+, flexible coding
- Alarm I/O: 2/2; Audio I/O: 1/1 Analog Output: 1
- RS-485; BNC; supports max. 256 GB Micro SD card
- 12 VDC/24 VAC/PoE power supply, easy for installation
- IP67 and IK10 protection

Intelligence:

- Fenced Area protection - Line Crossing; Intrusion
- EPTZ
- Vehicle Density
- Crowd Distribution Map



FREE Multisite VMS Software
Download it from www.watchnetinc.com



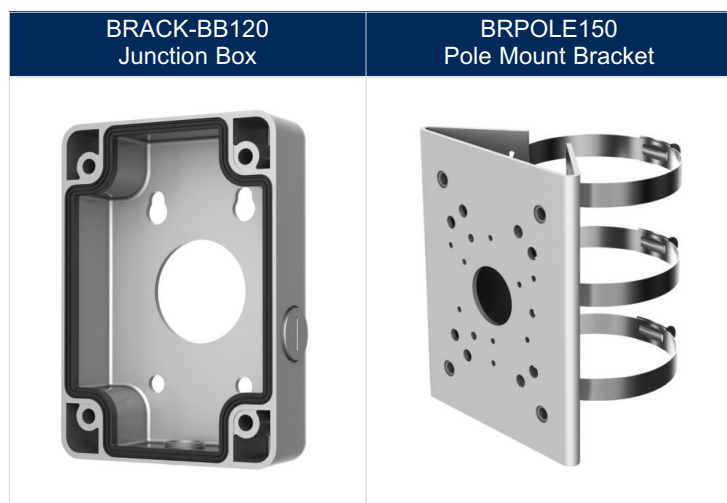
Model		MPIX-16MP180IRAI			
Camera					
Image Sensor		1/1.8" CMOS			
Effective Pixels		5520 (H) × 2700 (V)			
ROM/RAM		8GB / 4GB			
Scanning System		Progressive			
Min. Illumination		0.001 lux@F1.6 (Color, 30 IRE) 0.0001 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)			
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s			
S/N Ratio		>56dB			
Illumination Distance		30m (98.43ft) (IR LED)			
IR On/Off Control		Auto/Manual			
IR LEDs Number		8 (IR LED)			
Pan/Tilt/Rotation Range		Tilt: 0°–90° / Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M16			
Focal Length		2.8 mm			
Max. Aperture		F1.6			
Field of View		H: 180°; V: 100°			
Iris Control		Fixed			
Close Focus Distance		1.3m (4.27ft)			
DORI Distance	Detect	Observe	Recognize	Identify	
	58.9m (193.24ft)	23.6m (77.43ft)	11.8m (38.71ft)	5.9m (19.37ft)	
Intelligence					
EPTZ		Yes			
Fenced Area Protection		Line crossing, Intrusion			
Vehicle Density		Vehicle density; parking upper limit; vehicle congestion alarm			
Crowd Distribution Map		Crowd map, global people counting; people counting in area			
Video					
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)			
Smart Codec		Smart H.265+; Smart H.264+			
Video Frame Rate		Main Stream: 5520 × 2700@(1-25/30 fps) Sub Stream: 1280 × 620@(1-25/30 fps) Third Stream: 1920 × 940@(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		5520 × 2700; 4600 × 2252; 3840 × 1880; 2880 × 1408; 1280 × 620; 1024 × 496; 1920 × 940; 1366 × 668			
Bit Rate Control		CBR/VBR			
Video Bit Rate		H.264: 96 kbps–16384 kbps H.265: 38 kbps–12544 kbps			
Day/Night		Auto(ICR)/Color/B/W			

Day/Night	Auto (ICR) / Color / B/W
BLC	Yes
HLC	Yes
WDR	DWDR
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto; Manual
Noise Reduction	3D NR
Region of Interest	Yes (4 areas)
Defog	Yes
Privacy Masking	8 areas
Audio	
Audio Compression	G.711a; G.711Mu; G.726: G.723; PCM
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; scene changing; audio detection; voltage detection; external alarm; security exception; crowd distribution map; line crossing; intrusion; traffic congestion; parking upper limit
Network	
Network Port	RJ-45 (10/100/1000 Base-T)
SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI
User Host	20
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Browser	With plug-in: IE: IE 9 and later Chrome: Chrome 86 and later Firefox: Firefox 86 and later Without plug-in: Edge Chrome: Chrome 86 and later Firefox: Firefox 86 and later
Cyber Security	Configuration encryption;trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification
Certification	
Certification	CE, FCC

Port	
RS-485	1 (baud rate range:1200 bps–115200 bps)
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Analog Output	1 channel (CVBS output:BNC)
Alarm Input	2 channels in: 5 mA 3–5 VDC
Alarm Output	2 channels out: 1,000 mA 30 VDC/500 mA 50 VAC
Power	
Power Supply	12 VDC/24 VAC/PoE+ (802.3at)
Power Consumption	Basic: 8.2 W (12 VDC); 9.7 W (24 VAC); 9.7 W (PoE) Max. (WDR + IR intensity + intelligence on+ max. stream): 21.5 W (12 VDC); 24.2 W (24 VAC); 24.2 W (PoE)

Environment	
Operating Temperature	–40°C to +60°C (–40°F to +140°F)
Storage Temperature	–40°C to +60°C (–40°F to +140°F)
Operating Humidity	≤95%
Protection	IP67; IK10
Structure	
Casing Material	Metal + plastic
Product Dimensions	298.3 mm × 172.5 mm × 120.5 mm (11.74" × 6.79" × 4.74") (L × W × H)
Net Weight	3.05kg (6.72lb)
Gross Weight	3.79kg (8.36lb)

Optional Brackets:



*Due to limitations with the recorder, this camera only works at 8MP resolution on the ENMR3-04-16POE recorders.
For best results with the full 16MP resolution, use it with the EN-32AI recorder and above*

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CANADA:
351 Ferrier Street, Unit 5
Markham, ON L3R 5Z2
Toll Free: 1-866-843-6865
Tel: 416-410-6865

USA:
171 Cooper Ave. Suite 110
Tonawanda, NY 14150 USA
Toll Free: 1-866-843-6865
Local: 1-716-877-7277

UAE:
PO Box 126312
No 703, Oxford Towers
Business Bay, Dubai, UAE
Tel: +971 4 2767117

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info@watchnetinc.com
www.watchnetinc.com