

**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](http://www.watchnetinc.com)



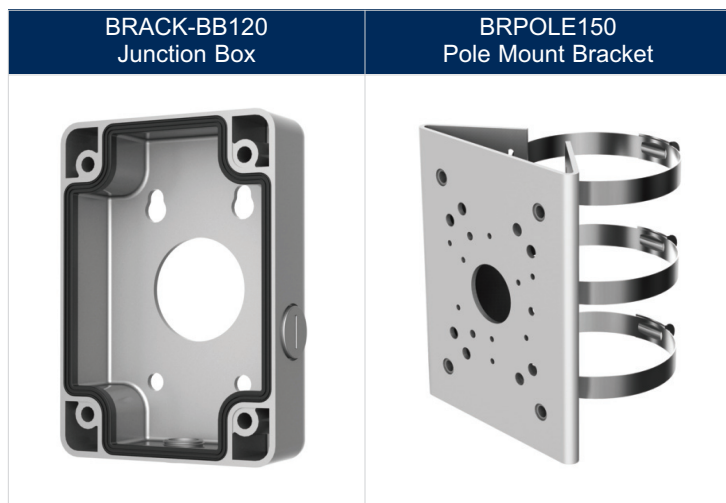
Model		MPIX-16MP180IRAI			
<b>Camera</b>					
Image Sensor	1/1.8" CMOS				
Effective Pixels	5520 (H) × 2700 (V)				
ROM/RAM	8GB / 4GB				
Scanning System	Progressive				
Min. Illumination	0.001 lux@F1.6 (Color, 30 IRE) 0.0001 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				
Electronic Shutter Speed	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°				
<b>Lens</b>					
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)	
<b>Intelligence</b>					
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				
<b>Video</b>					
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	<b>Main Stream:</b> 5520 × 2700@(1-25/30 fps) <b>Sub Stream:</b> 1280 × 620@(1-25/30 fps) <b>Third Stream:</b> 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
<b>Audio</b>	
Audio Compression	G.711a; G.711Mu; G.726; G.723; PCM
<b>Alarm</b>	
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
<b>Network</b>	
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	<b>With plug-in:</b> IE: IE 9 and later Chrome: Chrome 86 and later Firefox: Firefox 86 and later <b>Without plug-in:</b> 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
<b>Certification</b>	
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:



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