



MPIX-20MP360IRAI

4x5MP Multi-Sensor No-Splicing Panoramic Dome Network Camera



Features:

- Four 5-MP 1/2.7" CMOS image sensor, low illuminance, high image definition
- 4-channel stream output, and each channel can output max. 5 MP (2592 × 1944) @25/30 fps.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- The intelligent functions of 4 channels can be enabled at the same time, including face detection, IVS, and people counting
- Intelligent detection: Line crossing, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human), abandoned object, missing object, loitering detection, people gathering, and parking detection
- FlexStream: The 4 channels of images can be viewed in a defined channel with 1 channel stream. That is the multiple images can be displayed in 1 channel
- Web5.0 interface design, which is friendly to users, and easy for operation
- Built-in IR LED illuminator, max. illumination distance is 30m/98.43ft
- Alarm I/O: 3/2; Audio I/O: 1/1; RS-485; supports max. 256 G Micro SD card
- 12 VDC/PoE power supply; 12 VDC power output, and max. current 165mA; easy for installation
- IP67 and IK10 protection
- Anti-corrosion protection (optional)

AI Functions:

- Fenced Area protection
- Face Detection
- Line Crossing (Person & Vehicle Classification)



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



Model		MPIX-20MP360IRAI			
Camera					
Image Sensor	1/2.7" CMOS				
Effective Pixels	2592 (H) × 1944 (V)				
ROM/RAM	8GB / 4GB				
Scanning System	Progressive				
Min. Illumination	0.005 lux@F1.7 (Color,30 IRE); 0.0005 lux@F1.7 (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	Pan: 0°–360°/Tilt: 0°–75°/Rotation: 0°–355°				
Lens					
Lens Type	Motorized vari-focal				
Lens Mount	φ14				
Focal Length	2.8 mm–12 mm				
Max. Aperture	F1.7				
Field of View	H: 100°–42°; V: 74°–32°; D: 133°–53°				
Iris Control	Fixed				
Close Focus Distance	0.8m (2.62ft)				
DORI Distance	Detect	Observe	Recognize	Identify	
	66m-140.4m 216.54ft-460.63ft	26.4m-56.1m 86.61ft-184.06ft	13.2m-28.8m 43.31ft-94.49ft	6.6m-14m 21.65ft-45.93ft	
Smart Event					
IVS	Abandoned object; missing object				
Intelligence					
Fenced Area Protection	Line crossing; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection				
Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting				
People Counting	Line crossing people counting and people counting in area; generating and exporting report (day/month/year); queue management and exporting report (day/month); 4 rules can be set for tripwire, people counting in area and queue management				
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				
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	Single Stream: Main stream: 2592 × 1944@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480 (1–30fps) Third stream: 1920 × 1080@(1–25/30 fps)
	Flex Stream: Main stream: 1600 × 1200@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) Third stream: 3296 × 2472@(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	Single Stream: 5M (2592 × 1944); 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);
	Flex Stream: 8M (3296 × 2472); 5M (2592 × 1944); UXGA (1600 × 1200); 1080p (1920 × 1080); 1.3M (1280 × 960); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–17152kbps / H.265: 12 kbps–10240 kbps
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
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest	Yes (4 areas)
Image Stabilization	Electronic Image Stabilization (EIS)
Defog	Yes
Image Rotation	Yes
Mirror	Yes
Privacy Masking	8 areas
Audio	
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; line crossing; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; defocus detection; external alarm; face detection; people counting in area; stay detection; abnormal number of people detection; people counting; people stay detection; security exception

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; P2P
User/Host	20
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Browser	IE: IE9 and later Chrome: Chrome 42 and later Firefox: Firefox 48.0.2 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	
Certifications	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)
Alarm Input	3 channels in: 5 mA 3–5 VDC
Alarm Output	2 channels out: 300 mA 12 VDC

Power	
Power Supply	12 VDC/PoE+ (802.3at)
Power Consumption	Basic power consumption: 7.4 W (12 VDC); 9.3W (PoE) Max. power consumption (basic + WDR + IR intensity+ lens switch+ power output): 21.3W (12 VDC); 24.7 W (PoE+)
Environment	
Operating Temperature	–30°C to +60°C (–22°F to +140°F)
Operating Humidity	≤95%
Storage Temperature	–30°C to +60°C (–22°F to +140°F)
Protection	IP67; IK10; anti-corrosion protection (optional)
Structure	
Casing Material	Metal + plastic
Product Dimensions	111.3 mm × Φ286.1 mm (4.38"× Φ11.26"
Net Weight	2.75 kg (6.06 lb)
Gross Weight	4.5 kg (9.92 lb)

Optional Brackets:

BRACK-WML Wall Mount Bracket	BRACK-MPIX-21MP-PEND Ceiling Mount Bracket	BRACK-PLATE1 Adapter Plate	BRACK-CMA-PTZ Mount Adaptor
			

*BRACK-MPIX-21MP-PEND when used with BRACK-PLATE1 requires BRACK-CMA-PTZ (Mount adaptor)

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