Watch**NET** ®
Security Since 2000

MPIX Camera

SENSEFIER
Ultra low light enhancement

AI Watch**NET** ®

IP M EGAPIXEL
MPIX

2MP SENSEFIER IR AI Network PTZ Camera

MPIX-21MP5XIRAI

| 5X Optical Zoom | IP66 | H.265+ | D-WDR | Micro SD | Line Crossing | Intrusion | PoE | Active Deterrence | Mic. Speaker |

PRODUCT FEATURES

- 1/2.8" 2Megapixel STARVIS™ CMOS
- Sensefier technology
- 2.7 mm–13.5 mm
- IR distance up to 30m/98.43ft
- Deep-learning-based fenced area protection
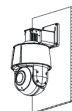- Motion Detection
- PoE
- IP66

AI Functions:
- **Fenced Area protection**
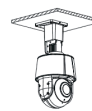- **Line Crossing (Person & Vehicle Classification)**

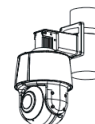**FREE Multisite VMS software**
Download from www.watchnetinc.com

CE FC

ANDROID

Onvif

Included Brackets/Power Adapter

Wall Mount   Ceiling Mount   Pole Mount Vertical   DC12V/2A Power Adapter

BRACK-BB-53

www.watchnetinc.com

Model Number	MPIX-21MP5XIRAI
Camera	
Image Sensor	1/2.8" CMOS
Pixel/Max, Resolution	2MP / 1920 (H) x 1080(V)
Scanning System	Progressive
Electronic Shutter Speed	1/3 s–1/100000 s
Minimum Illumination	Color: 0.002 Lux@F1.8 / B/W: 0.0002 Lux@F1.8 0 Lux (illuminator on)
ROM / RAM	256MB / 512MB
IR Distance	30m (98.43ft)
IR On/Off Control	Manual/Smart IR/Off
IR LEDs	4 IR lights; 1 white light
LENS	
Focal Length	2.7 mm – 13.5 mm
Max. Aperture	F1.8 – F3.3
Angle of View	H: 101.6°–33.5°; V: 52°–18.7°; D: 124.7°–38.5°
Optical Zoom	5x
Focus Control	Auto/Semi-Auto/Manual
Iris Control	Fixed
Close Focus Distance	1.2m (3.94ft)
PTZ	
Pan/Tilt Range	Pan: 0°–355° / Tilt: -15°–+90
Manual Control Speed	Pan: 0.1°/s–80°/s / Tilt: 0.1°/s–56°
Preset Speed	Pan: 81°/s; Tilt: 43°/s
Presets	300
Power-off Memory	Support
Idle Motion	Preset
Artificial Intelligence	
Fenced Area Protection	Line Crossing, and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights,etc.
Audio	
Compression	G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G722.1; G729; G723

Dori Distance	Detect	Observe	Recognize	Identify
	131m (429.79ft)	52.3m (171.59ft)	26m (85.30ft)	12.8m (41.99ft)

* All product names, logos and brands are property of their respective owners. All company products and service names used on this box/website/brochure are for identification purposes only. Use of these names, logos and brands does not imply endorsement. 2022 WatchNET Inc. © All Rights Reserved. All product specifications are subject to change without notice.
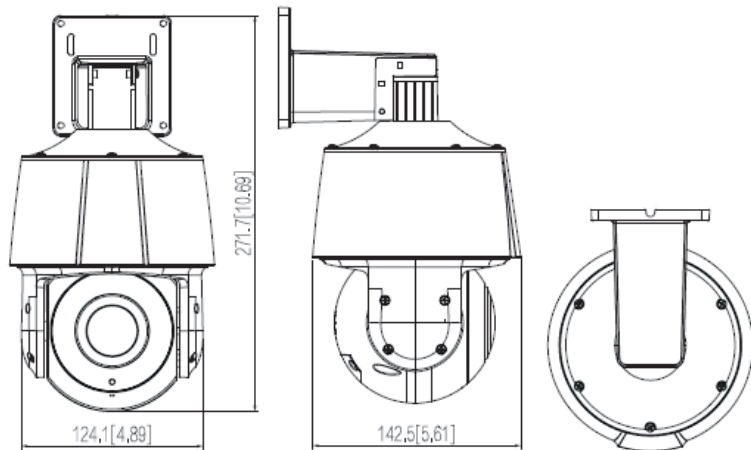
Video	
Compression	H.265; H.264B; H.264M; H.264H; MJPEG; MJPEG (Sub Stream); H.265+; H.264+
Streaming Capability	3 Streams
Resolution	1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Frame Rate	**Main stream:** 1080P (1–25/30 fps); 1.3M (1–25/30 fps); 720P (1–25/30 fps) **Sub stream1:** D1/CIF (1–25/30 fps) **Sub stream2:** 1080P (1–25/30 fps); 1.3M (1–25/30 fps); 720P (1–25/30 fps)
Bit Rate Control	Variable/Constant
Bit Rate	H.264: 3 Kbps–20480 Kbps / H.265: 3 Kbps–20480 Kbps
Day/Night	Auto (ICR)
BLC / HLC / WDR	Support / Support / DWDR
White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural light/Street lamp
Gain Control	Auto / Manual
Noise Reduction	DNR (2D/3D)
Motion Detection	Support
Region of Interest	Support
S/N Ratio	≥ 55 dB
Defog	Electronic
Flip	180°
Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; QoS; FTP; SMTP; UPnP; SNMP; DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; SNMP v1/v2c/v3 (MIB-2); RTCP; RTMP
Interoperability	ONVIF (Profile S&G&T); CGI
Streaming Method	Unicast / Multicast
User/Host	20 (total bandwidth: 64MB)
Storage	FTP; Micro SD card (max. 256 GB); NAS
Web Viewer	IE7 and later versions/Chrome 42 and earlier versions/ Firefox 52 and earlier versions/Safari
Smart Phone	IOS, Android
Port	
Audio I/O	1 (Built-in Mic) / 1 (Built-in Speaker)
Two-way Audio	Support
Alarm Linkage	Capture; preset; SD card record; send email
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; encoder state detection; memory card state detection; memory space detection
Power	
Power Supply	12V DC/2A ± 10% (supports PoE)
Power Consumption	Basic: 5W/Max: 12W (illuminator on), Power adapter included
Environmental	
Operating Conditions/Humidity	-30°C to +60°C (-22°F to 140°F) / ≤ 95%
Ingress Protection	IP66; TVS 2000V lightning proof; surge protection; voltage transient protection
Structure	
Dimensions	271.7 mm × 142.5 mm × 124.1 mm (10.70" × 5.61" × 4.89")
Net/Gross Weight	1.1kg (2.43lb) / 1.51kg (3.33lb)