SM-IPTZ-4MP-4XMWSFR AI PTZ

4M 4x IR Network Active Deterrence 3 inch Mini PTZ

SM-IPTZ-4MP-4XMWSFR

| Smart Tracking | Starlight | WDR (120dB) | Auto Day/Night |
| Active Deterrence | PoE+ | IP66 | H.265 |
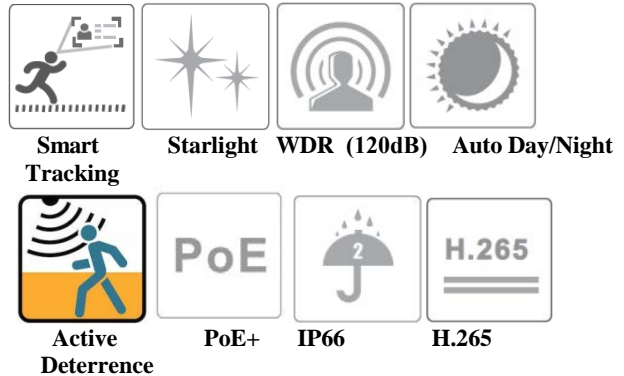
System

SM-IPTZ-4MP-4XMWSFR 4MP 4x Network IR mini PTZ, adopts high quality 4x optical AF lens and could output max 4MP(2560x1440) 30fps ultra HD stream, covering a medium size area. Featuring its high performance, it could meet the demand of small-sized video surveillance application. The H.265 encoder could reduce video bandwidth to 50% of H.264 without loss of image details. With high-performance AI engine, it supports multiple human/vehicle detection, classification and auto tracking and active deterrence. In a typical dim night, upon detecting of illegal intrusion, the camera will trace moving object, zoom fit in the center screen, turn off IR light and turn on strong white light, play warning sound, until the object leave out of the alert area, then the camera return to patrol mode-- scan 360° around to find invaders, and so on. With deterrence mode, the camera captures colorful images instead of B/W, improving confidence as court evidence. While in patrol, the PTZ keeps silent and no strong white light disturbs to neighbors and community. The series of PTZ conforms to the ONVIF specifications ensuring interoperability between network video products regardless of manufacturers, and also complies with NDAA 2019. This PTZ has metal main body, water-resistant glass, IP66/IK10 class protection, which could work 7/24H in common outdoor weather.

Key Spec:

● Progressive scan BSI+NIR image sensor

● Up to 2560x1440 resolution

● Mini illumination:

　　Color: 0.01 lux @ (F1.6 AGC ON)

　　0 Lux with IR

● 4x optical zoom, fast and accurate

● Smart 4 IR LEDsup to 50m, 2 White LED 30m

● Bi-directional audio, built-in Mics &Speaker

●3 0mfor audible warnings, 7m for voice recording

● AI-based human vehicle detection &classification and tracking, perimeter precaution, cross line, etc.

● SD/TF card chamber, Reset button, Alarm in/out

● PoE+ or DC12V power supply, easy installation

● IP66 Water-proof, IK10, -40°C~70°C

● Onvif, API, SDK, IE/NVR/VMS/free mobile Apps

Application:

With good image quality and protection, This PTZ cameracould meet the demand of small size of video surveillance product. It is suitable forschool, hospital, medium residential community, small parks, swimming pool, factories, feedlot, etc.

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AI PTZ

SPECIFICATION:

Camera Module	
Image sensor	1/2.7″ progressive scan CMOS with BSI and NIR+ technology
Mini. Illumination	Color：0.01 Lux @ (F1.6，AGC ON)；B/W：0.002 Lux @(F1.6，AGC ON); 0 Lux with IR
Image setting	Flip, Mirror, Saturation,Brightness,Contrast, Sharpness, AGC, and AWB adjusted by client
Shutter Speed	50Hz: 1/25s~1/25,000s, 60Hz: 1/30s~1/30,000s
White Balance	Auto/Manual/Indoor/Outdoor
Gain	Auto/Manual
Day & Night	Auto/Manual
Aperture control	N/A
S/N Ratio	≥52dB
3D DNR	Auto/Manual
AE Enhancement	BLC, HLC, True WDR (120dB)
Privacy Mask	4 Programmable privacy masks, up to 8 per request
Picture overlay	Logo picture could be overlaid on video with 128x128pixels,24bits BMP format
Font overlay	Max 15characters per line, 8lines max, white color or red color

Lens				
Focus length	f=2.8-12mm lens,4x optical			
Zoom Speed	About 1.6second(Wide->tele)			
Field of View	Horizontal: 97° to 31°±5%；Vertical: 51° to 18°±5%；Diagonal: 115° to 36°±5% (wide-tele)			
Working distance	wide: 0.3m ~ INF; tele: 0.5m ~ INF			
Aperture Range	F1.6~ F2.7 (wide-tele)			
IRCut filter	Electrical switchable ICR			
DORI table	Lens	Detect(25px/m)	Observe(63px/m)	Recognize(125px/m)	Identify(250px/m)
	2.8mm	68m(223 f.t)	27.1m(88.9 f.t)	13.6m(44.6 f.t)	6.8m(22.3 f.t)
	12mm	206.7m(678.1 f.t)	82m(269 f.t)	41.3m (135.5 f.t)	20.7m(68f.t)

PTZ	
Pan Range	0~355°
Pan speed	Configurable, from 0.1~80°/s; Preset speed: 80°/s
Tilt Range	From -5° to 90°
Tilt Speed	Configurable, from 0.1°~ 60°/s, Preset speed: 60°/s
Pan/Tilt action intervals	At least 10 seconds, adjustable
Proportional Zoom	Yes
Preset	300
Cruise	8 cruises, up to 16 presets for each cruises
Trace	4 traces, record time over 3 minutes for each trace
Power off memory	Support
Action mode	Preset/Cruise/Trace/Auto Scan/Random Scan
3D Positioning	Support
PTZ Position Display	Support
Schedule Task	Preset/Cruise/Trace/Random Scan/Boundary Scanning /Dome reboot

Supplement Light	
IR Distance	Up to 50m,4pcs of IR Array into 2 Groups, auto switch with zoom ratio
Smart IR	Yes
White light Distance	Up to 30m, 2pcs of White LED Array
White light Mode	Flash mode(2x brightness), time interval adjustable; torque mode per request

Network	
Max Resolution	2560×1440
Main stream	25fps (2560×1440, 2048×1536, 1920×1080, 1280×960, 1280×720); 30fps (2560×1440, 2048×1536, 1920× 1080, 1280× 960, 1280× 720)
Sub stream	25fps (704 × 576, 640 × 480, 352 × 288)；30fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	25fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288) ；30fps (1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video compression	Smart H.265+/H.265/H.264+/H.264/MJPEG

H.264 Encoder	H.264/AVC codec BP/MP/HP, level 5.1
H.265 Encoder	H.265/HEVC codec MP, level 5.0
Video bit rate	64Kbps ~ 16Mbps
Audio Compression	G.711 A/U
Audio bit rate	64Kbps
Protocols	HTTP, HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP,DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE
User / Host	Up to 16 users, 3 levels: Administrator, Advanced User and Normal User
Security Measures	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption, IEEE802.1x port-based network access control; IP address filtering
Smart Features	
Basic event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, SD full, SD error)
Face recognize	Support human face detection, max 15 human faces per scene. Support face capture, tracking, comparison, edge storage
Road traffic	Vehicle detecting and tracking, etc.
Smart Detection	Tripwire, Bi-directional tripwire, Illegal intrusion detection, Region entrance detection, Region exiting detection, etc. More VCA per request.
Smart Tracking	Smart tracking of human or vehicle, auto/manual
Active Deterrence	Flash strong white light and predefined voice upon invaders detected. Support 10 more different predefined voice clips
Dual way talk	Support trusted visitors / host dual-way talk
System Integration	
Ext. Audio Interface	1-ch audio input(mic in),2.0-2.4Vp-p,1kΩ±10%; 1-ch audio output(line out), line level, impendance:600 Ω;
Built-in speaker	4Ω, 2.5Watt. Rotation with camera lens direction, up to 30m distance audible
Built-in MIC	1channel, rotation with camera lens direction, up to 8m distance voice recordable.
Audio device switch	Default use built-in speaker and MIC, manually switch to external
Alarm interface	1CH alarm input(Dry contact); 1CH alarm output
Alarm Linkage	Alarm actions, such as Preset, Cruise, Trace, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card, Send Email, etc.
Network Interface	1 RJ45 10M/100M Adaptive Ethernet (Support PoE+)
Storage Slot	Standalone ext. memory card chamber, support microSD/TF card, up to 256GB
Serial interface	No RS485/RS232
Auxiliary video out	No BNC(CVBS)
Reset button	Yes, press 1-3seconds for camera soft reboot, press 5-10seconds for system restore to factory default
Heat and Fan	Built-in temperature sensor, auto shut down at over- temperature; auto heat at cold start. No built-in fan.
Water removal	Dust and Water-resistant coating for lens cover
API	ONVIF, support SDK and third-party management platform
Client	N9000 1.4.5, NVMS 2.0; and the third-party client, free iOS and Android App
Web Browser	IE8-11
App version	Default:5.0.1,not support plugin free, not support system boot backup,5.1.1 per request
General	
Languages	Czech; English, German; Hungarian ; Italian ; Japanese ; Korean ; Portuguese, Polish; Russian, Romanian, Spanish; Spanish(Mexico); **Simplified Chinese**; Turkish; Traditional Chinese. etc.
Power	DC12V±20%,3000mA,PoE+ (802.3.at), AVG. 4.5Watt, Max 16.2Watt at day; 20.2Watt at night (LED on, Speaker on + PT Rotation)
Working condition	-40°C ~ 70°C (-40°F ~ 158°F) IR off, -40°C ~ 60°C IR on; Cold start≥- 25°C(1Hour waiting), ≤90%RH
Storage condition	-40°C ~ 70°C ; ≤ 95% RH
Protection	6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Shield Material	Main body: Aluminum Alloy(ADC12),Decoration: Polymer(Glass fiber and Plastic)
Dimensions	¢ 130mm x 162mmH (¢ 5.1′x 6.4′)
Net Weight	Approx. 1.2Kg (2.645lb.)
Certification	IP66,IK10(include lens window), ROHS,CE,FC,3C

Ordering information

PTZ Camera	SM-IPTZ-4MP-4XMWSFR	4MP 4x Network 50m IR active deterrence 3inch PTZ, DC12V/PoE+, IP66,-40°C~70°C,including flash mount adaptor, (Power adaptor not included)

Accessory(optional):
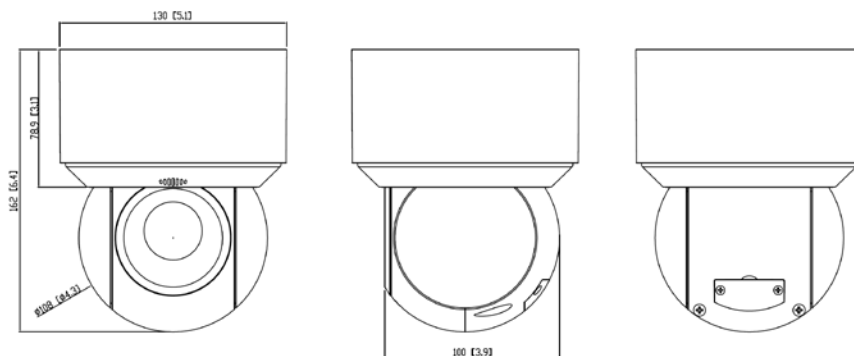
Dimensions(mm/inch):

*All texts, pictures and data subject to change without notice.