

Thermal & Optical Dual-spectrum Starlight PTZ Dome Camera

- Thermal & Optical dual-spectrum image, dual channels with one IP, adaptable to more various scenes
- Passive infrared thermal imaging, meet the requirement of concealed monitoring and not affected by bad weather condition such as fog, smoke, rain, snow and night etc.
- Starlight illumination
- Smart IR, up to 150m (492ft) IR distance
- Gyroscope stabilization for stable picture
- 2D/3D DNR (Digital Noise Reduction)
 - 4 Megapixel optical image
 - Ultra265, H.264, MJPEG
 - Triple streams Customize OSD
 - ONVIF Conformance
 - AC/DC24V or PoE++(IEEE 802.3bt) power supply
 - Wide voltage range of $\pm 25\%$
 - Support Wiper
 - Alarm 2 in and 1 out, Audio 1 in and 1 out



Thermal Module		MNA-SP4TH50-38IW				
Sensor Type	Vanadium Oxide Uncooled Focal Plane Arrays					
MAX. Resolution	384*288					
Video Format	720P(1280*720), Max 25fps					
Pixel size	17µm					
Response waveband	8~14µm					
NETD	≤55mk					
Lens(focal length)	50mm					
Angle of view (H / V / O)	7.5° / 5.8° / 9.1°					
Focus	Auto/Semiautomatic/Manual					
Palette	Up to 20 palettes of optional color, including: white hot, lava, iron oxide red, hot iron, medical, arctic, rainbow 1, rainbow 2, rainbow 3, depict hot, ice hot, black hot, mazarine, fusion, red hot, green hot, color 1, color 2, rain					
Detection Distance	Vehicle: 3480m (target size 4mx1.4m); human: 1395m (target size 1.8mx0.5m);					
Recognition Distance	Vehicle: 870m (target size: 4mx1.4m); human: 349m (target size: 1.8mx0.5m);					
Identification Distance	Vehicle: 497m (target size: 4mx1.4m); human: 199m (target size: 1.8mx0.5m);					
Optical Module						
Image Sensor	1/1.8",progressive scan,4.0 megapixel, CMOS					
Lens	5.7 ~ 216.6mm, AF automatic focusing and motorized zoom lens					
Digital Zoom	16					
Optical Zoom	38					
DORI Distance	Lens (mm)	Detect (m)	Observe (m)	Recognize (m)	Identify (m)	
	5.7	97.5(319.9ft)	39(128.0ft)	19.5(64.0ft)	9.8(32.0ft)	
	216.6	3030(9940.9ft)	1212(3976.4ft)	606(1988.2ft)	303(994.1ft)	
Angle of view (H / V / O)	58.5°~ 2.1° / 35.0°~ 1.2° / 72.0°~ 2.5°					
Shutter	Auto/Manual, shutter time: 1 ~ 1/100000s					

Min. Illumination	Colour:0.0005lux (F1.3, AGC ON) 0 lux with IR
Iris	Auto / Manual ; F1.3 ~ F4.6
Digital noise reduction	2D/3D DNR
WDR	120dB
Day/Night	IR-cut filter with auto switch (ICR)
IR Range	Up to 150m (492 ft) IR range
Defog	Optical Defog & Digital Defog
S/N	>56dB
Event	
General Function	Watermark, IP Address Filtering, Tampering Alarm, Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication
Video	
Compression	Ultra265, H.264, MJPEG
Frame Rate	Main Stream: 4MP (2688x1520): Max.60fps; Sub Stream: 2MP (1920x1080): Max.60fps; Third Stream: D1(720 x 576): Max.60fps;
HLC / BLC	Supported
OSD	Up to 8 OSDs
ROI	Up to 8 areas
Privacy Mask	Up to 24 areas
Motion Detection	Up to 4 areas
Audio	
Audio Compression	G.711U,G.711A
Two-way audio	Supported

Suppression	Supported
Sampling Rate	8 kHz
Storage	
Edge Storage	Micro SD, up to 256 GB
Network Storage	ANR , NAS(NFS)
Network	
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS, RTMP
Compatible Integration	ONVIF (Profile S, Profile G, Profile T) , API
Web Browser	Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below
Pan & Tilt	
Pan Range	360° (endless)
Pan Speed	0.1°/s ~ 180°/s
	Preset speed: 300°/s
Tilt Range	-15° ~ 90° (auto reverse)
Tilt Speed	0.1° ~ 180°/s
	Preset speed: 240°/s
Number of Presets	1024
Patrol	Preset patrol, route patrol, recorded patrol
Interface	
Audio I/O	Audio cable
	Input: impedance 1kΩ; amplitude 2V [p-p]
	Output: impedance 600Ω; amplitude 2V [p-p]
Alarm I/O	2/1
Serial Port	1 RS485
Network	1 x RJ45 10M/100M Base-TX Ethernet
Video Output	N/A

General	
power	AC 24V, DC 24V \pm 25%, PoE++ (IEEE 802.3bt) (IEEE802.3bt switch required)
	Power consumption: Max 57W
Dimensions (\varnothing x H)	\varnothing 270mm x 496.7mm (\varnothing 10.6" x 19.6")
Weight	10.22kg (22.53lb)
working environment	-40°C ~ 70°C (-40°F ~ 158°F), Humidity: \leq 95% RH (non-condensing)
Storage Environment	-40°C ~ 70°C (-40°F ~ 158°F), Humidity: \leq 95% RH (non-condensing)
Surge protection	6KV
Ingress Protection	IP66
Vandal Resistant	N/A

Dimensions

