DATA SHEET

TRINAI
Vision With Intelligence

4MP 40X Lighthunter IR Network PTZ Dome Camera

Model no: AI04P250L66-40MV-228F-LS

Certificate

FC CE ROHS

key features

| Smart Intrusion Prevention | Deep People Counting | Lighthunter | Edge Storage | Serial connection of optical and electrical interfaces | Patrol | IP 66 |

- ▶ High quality image with 4MP,1/1.8'' CMOS sensor
- ▶ 2688*1520@30fps in the main stream
- ▶ Ultra 265, H.265, H.264, MJPEG
- ▶ Triple streams
- ▶ 40X Optical Zoom
- ▶ Smart intrusion prevention, support false alarm filtering, include Cross Line, Intrusion, Enter Area, Leave Area detection
- ▶ People Counting, support people flow counting and crowd density monitoring, suitable for different statistical scenarios
- ▶ Lighthunter technology ensures ultra-high image quality in low illumination environment
- ▶ Smart IR, up to 250m (820ft) IR distance
- ▶ Support SFP optical interface, support serial connection of optical and electrical interface
- ▶ AC 24V ±25%, DC 24V±25%
- ▶ Alarm 7 in and 2 out, Audio 1 in and 1 out

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Specifications

|	AI04P250L66-40MV-228F-LS			
Camera				
Sensor	1/1.8", 4.0 megapixel, progressive scan, CMOS			
Minimum Illumination	Colour: 0.0005Lux (F1.2, AGC ON) 0Lux with IR			
Day/Night	IR-cut filter with auto switch (ICR)			
Shutter	Auto/Manual, 1 ~ 1/100000s			
WDR	120dB			
S/N	>56dB			
Lens				
Lens type	5.7 ~ 228mm, AF automatic focusing and motorized zoom lens			
Digital Zoom	16			
Optical Zoom	40			
Iris	Auto; F1.2 ~ F4.6			
Field of View (H)	59.5° ~ 2.2°			
Field of View (V)	35.6° ~ 1.2°			
Field of View (D)	73.1° ~ 2.6°			
DORI				
DORI Distance	Lens (mm)	Detect (m)	Observe (m)	Recognize (m)	Identify (m)
	5.7	107.2(351.8ft)	42.9(140.7ft)	21.4(70.4ft)	10.7(35.2ft)
	228	3330.6(10927.2ft)	1332.2(4370.9ft)	666.1(2185.4ft)	333.1(1092.7ft)
Illuminator				
IR Range	Up to 250m (820 ft) IR range			
Wavelength	850nm			
IR On/Off Control	Auto/Manual			
Video				
Video Compression	Ultra 265, H.265, H.264, MJPEG			
Frame Rate	Main Stream: 4MP (2688*1520), Max 30fps; Sub Stream: 2MP (1920*1080), Max 30fps; Third Stream: D1 (720*576), Max 30fps			
Video Bit Rate	128 Kbps~16 Mbps			
U-code	Support			
ROI	Up to 8 areas			
Video stream	Triple streams			
OSD	Up to 8 OSDs			
Privacy Mask	24 areas, up to 4 areas per scene			
Image				
White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2			
Digital noise reduction	2D/3D DNR			
Flip	Normal/Flip Vertical/Flip Horizontal/180°/90°Clockwise/90°Anti-clockwise			
EIS	Support			
HLC	Support			

BLC	Support
Defog	Optical Defog & Digital Defog
Intelligent	
Smart Intrusion Prevention	Support false alarm filtering: Cross Line detection, Intrusion detection, Enter Area detection, Leave Area detection
People Counting	Support people flow counting and crowd density monitoring
Events	
Basic Detection	Motion detection, Audio detection, Tampering Alarm;
Auto Tracking	Support
General Function	Watermark, IP Address Filtering, Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication
Audio	
Audio Compression	G.711U,G.711A
Audio Bitrate	64 Kbps
Two-way audio	Support
Suppression	Support
Sampling Rate	8 kHz
Storage	
Edge Storage	Micro SD, up to 256GB
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, SSL/TLS
Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API, SDK
User/Host	Up to 32 users. 3 user levels: administrator, operator and common user
Security	Password protection, strong password, HTTPS encryption, Export operation logs, basic and digest authentication for RTSP, digest authentication for HTTP, TLS 1.2, WSSE and digest authentication for ONVIF
Web Browser	Plug-in required live view: IE 10 and above, Chrome 45 and above, Firefox 52 and above, Edge 79 and above
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°/s ~ 180°/s
	Preset speed: 240°/s
Number of Presets	1024
Preset Patrol	16 patrols, up to 64 presets for each patrol
Route Patrol	16 patrols, up to 32 actions for each patrol
Recorded Patrol	16 patrols, up to 128 actions for each patrol
Patrol Stay Time	15s~1800s
Preset Image Freeze	Support
Home Position	Support

Interface	
Audio I/O	1/1
Alarm I/O	7/2
Serial Port	1 RS485
Built-in Mic	N/A
Built-in Speaker	N/A
WIFI	N/A
Network	1*100M/1000M Base-FX SFP + 1*10M/100M Base-TX Ethernet
Video output	1 BNC
Certification	
EMC	FCC
Safety	CE RoHS BIS
General	
Power	AC 24V ±25%, DC 24V±25%
	Power consumption: Max 61W
Power Interface	Wires with cold-pressed terminal
Dimensions (Ø x H)	Φ270 x 497mm (Φ10.6" x 19.6")
Weight	9.5kg(20.9lb)
Working Environment	-40°C ~ 70°C (-40°F ~ 158°F), Humidity: ≤95% RH (non-condensing)
Storage Environment	-40°C ~ 70°C (-40°F ~ 158°F), Humidity: ≤95% RH (non-condensing)
Surge Protection	6KV
Reset Button	Support

Dimensions

G1 1/2 screw

20mm (0.8")

497mm (19.6")

Ø70mm (2.8")

Ø270mm (10.6")
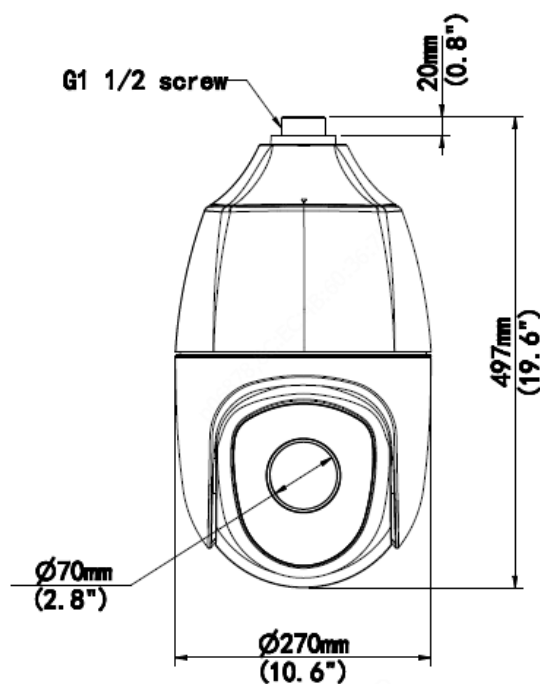
Accessories

AI -UF45-A-IN	AI -SE45-A-IN	AI -SE45-IN	AI -CE45-IN	AI -JB12-IN
Pendent Mount	Pendent Mount	Pendent Mount	Pendent Mount	Junction Box
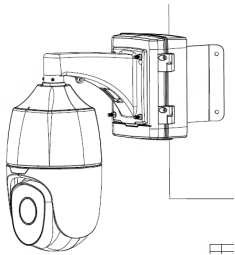
AI -WE45-A-IN	AI -WE45-B-IN	AI -UP08-A/B-IN	AI -UC08-A/B-IN
Wall Mount	Wall Mount	Pole Mount	Corner Mount

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Pendent Mount	Wall Mount
AI -UF45-A-IN + AI -SE45-A-IN/AI -SE45-IN; AI -CE45-IN;	AI -WE45-A-IN/AI -WE45-B-IN + AI -JB12-IN + AI -UC08-A/B-IN
Pole Mount	
AI -WE45-A-IN/AI -WE45-B-IN + AI -JB12-IN + AI -UP08-A/B-IN	