

SG-TCM06N2-M25225(30150, 2575)

- 640×512 Thermal Network Camera Module with Motorized Lens



1. Features

- > 640×512 resolution, high sensitivity sensor.
- > 12μm pixel pitch.
- > 25~225mm (30~150mm, 25~75mm) motorized lens.
- > Support various IVS functions.
- > Support Fire Detection.
- > Support Analog and Ethernet dual output.

2. Specification

Model		SG-TCM06N2-M25225	SG-TCM06N2-M30150	SG-TCM06N2-M2575
Sensor	Image Sensor	Uncooled VOx microbolometer		
	Resolution	640×512		
	Frame Rate	50Hz		
	Pixel Pitch	12μm		
	Spectral Range	8~14μm		
	NETD	≤40mK@25°C, F#1.0		
Lens	Coating	DLC		
	Focal Length	25~225mm	30~150mm	25~75mm
	Lens Type	Motorized	Motorized	Motorized
	Optical Zoom	9x	5x	3x
	Digital Zoom	8x	8x	8x
	F Value	F1.0~F1.5	F1.0~F1.2	F1.0~F1.2

	FOV	17.46°×14.01°~ 1.96°×1.56°	14.59°×11.69°~ 2.93°×2.35°	17.46°×14.01°~ 5.86°×4.69°
Video	Compression	H.265/H.264/H.264H/H.264B/MJPEG		
	Audio Compression	AAC / MP2L2		
	Snapshot	JPEG		
	Resolution	Main Stream: 50fps@(1280×1024, 1280×720, 704×576, 704×480) Sub-Stream1/2: 50fps@(704×576, 704×480, 352×288, 352×240)		
	Video Bit Rate	4kbps~40Mbps		
Network	Network Protocol	IPv4, IPv6, HTTP, HTTPS, TCP, UDP, RTSP, RTCP, RTP, ARP, NTP, FTP, DHCP, PPPoE, DNS, DDNS, UPnP, IGMP, ICMP, SNMP, SMTP, QoS, 802.1x, Bonjour		
	API	ONVIF, HTTP API, SDK, GB28181		
	Network Security	User Authentication, IP/MAC Filtering, HTTPS Encryption, IEEE 802.1X Network Access Control		
	Web Browser	IE, Edge, Firefox, Chrome		
	User	Up to 20 users, 2 level: Administrator, User		
	Storage	Micro SD/SDHC/SDXC card (Up to 1TB) edge storage, FTP, NAS		
	Multicast	Support		
Intelligence	Perimeter Protection	Tripwire, Cross Fence Detection, Intrusion		
	Behavior Analysis	Abandoned Object, Object Removal, Fast-Moving, Crowd Detection, Loitering Detection, Parking Detection		
	Events	Motion Detection, Video Occlusion, Scene Change, Audio Detection, Network Disconnected, IP Conflict, Illegal Access, Storage Anomaly		
	Fire Detection	Support		
Interface	Ethernet	4PIN Ethernet port, 10M/100M self-adaption		
	Alarm In/Out	1/1		
	Audio In/Out	1/1		
	Control Interface	1x TTL 3.3V (VISCA protocol), 1x RS485 (Pelco protocol) (TTL 3.3V optional)		
	Video Output	Network and CVBS		
Pseudo Color		White hot, black hot, fusion, iron red, etc. 20 options		
Focus Mode		Auto / Manual / One Push AF		
FFC Mode		Auto / Manual		
Image Setting		Brightness, Contrast, Sharpness, and Temporal Noise Reduction		
OSD		Support		
Flip		Support		
Mirror		Support		
Power Supply		DC 12V, 1A		
Typical Power Consumption		2.5W		
Peak Power Consumption		6.5W	7.3W	7.5W
Operating Conditions		-30°C~+60°C/20% to 80%RH		
Storage Conditions		-40°C~+70°C/20% to 95%RH		

The 1 st Lens Protection Level	IP67		
Dimensions (L*W*H)	Φ190*322.6mm	Φ187*263mm	Φ99*173.2mm
Weight	Approx. 3.57kg	Approx. 3.36kg	Approx. 960g

3. DRI Distance

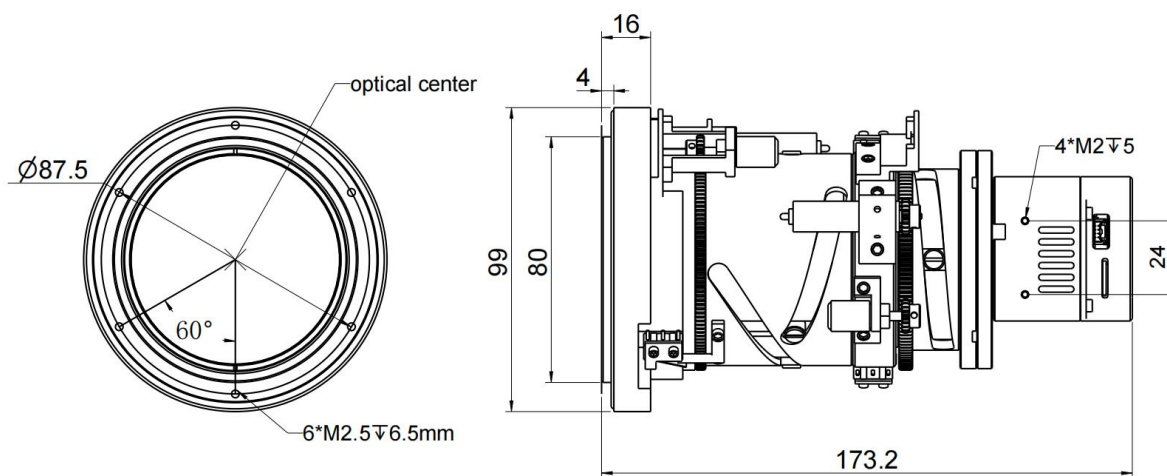
Target: Human size is 1.8m×0.5m (Critical size is 0.75m), Vehicle size is 1.4m×4.0m (Critical size is 2.3m); Fire size is 0.13m×0.13m (Critical size is 0.13m).

The target detection, recognition and identification distances are calculated according to Johnson's Criteria.

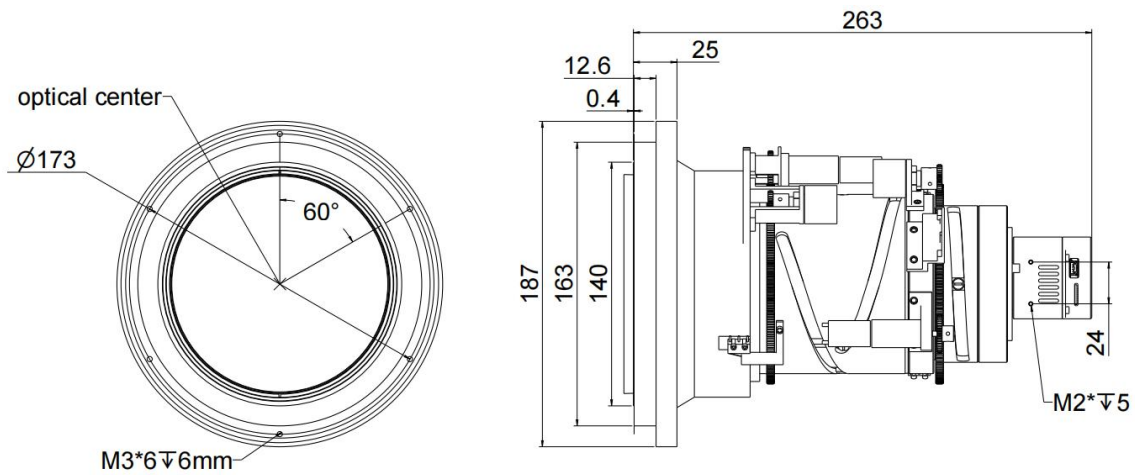
The recommended distances of Detection, Recognition and Identification are as follows:

Lens	Detect			Recognize			Identify		
	Vehicle	Human	Fire	Vehicle	Human	Fire	Vehicle	Human	Fire
25mm	3194m (10479ft)	1042m (3419ft)	181m (594ft)	799m (2621ft)	260m (853ft)	45m (148ft)	399m (1309ft)	130m (427ft)	23m (75ft)
30mm	3833m (12575ft)	1250m (4101ft)	217m (712ft)	958m (3143ft)	313m (1027ft)	54m (177ft)	479m (1572ft)	156m (512ft)	27m (89ft)
75mm	9583m (31440ft)	3125m (10253ft)	542m (1778ft)	2396m (7861ft)	781m (2562ft)	135m (443ft)	1198m (3930ft)	391m (1283ft)	68m (223ft)
150mm	19167m (62884ft)	6250m (20505ft)	1083m (3553ft)	4792m (15722ft)	1563m (5128ft)	271m (899ft)	2396m (7861ft)	781m (2,562ft)	135m (443ft)
225mm	28750m (94324ft)	9375m (30758ft)	1625m (5331ft)	7188m (23583ft)	2344m (7690ft)	406m (1332ft)	3594m (11791ft)	1172m (3845ft)	203m (666ft)

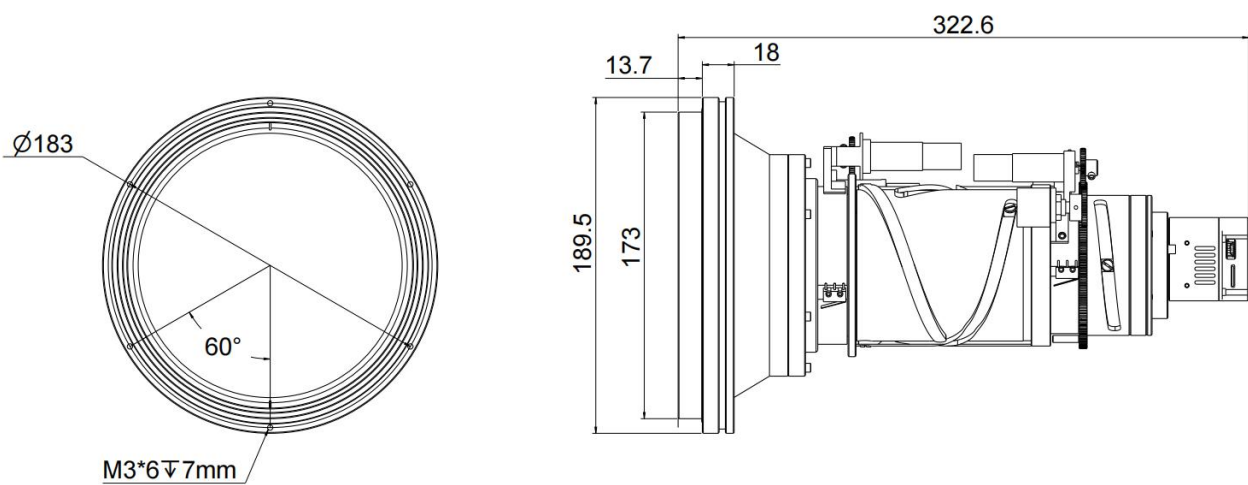
4. Dimension



25~75mm Motorized Lens

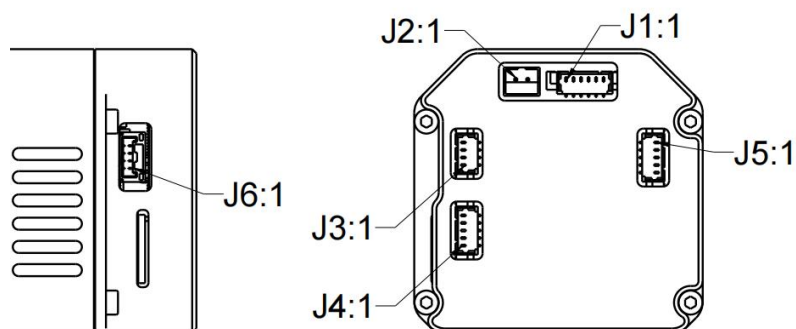


30~150mm Motorized Lens



25~225mm Motorized Lens

4. Interface Definition



Encoding board

Type	PIN	PIN Name	Description
J1_6pin Power & UART Interface (A1251-06A, 1.25mm)	1	DC_IN	DC12V±10%
	2	GND	GND
	3	485A	RS485A Pelco protocol (TTL 3.3V Optional)

	4	485B	RS485B Pelco protocol (TTL 3.3V Optional)
	5	RXD0	TTL 3.3V, Visca protocol
	6	TXD0	TTL 3.3V, Visca protocol
J2_2pin Power (A2001AWR-02 2.0MM)	1	DC_IN	DC12V±10%
	2	GND	GND
J3_4pin Ethernet (A1251-04A, 1.25mm)	1	ETHRX-	Adaptive Ethernet port, Internet RX-
	2	ETHRX+	Adaptive Ethernet port, Internet RX+
	3	ETHTX-	Adaptive Ethernet port, Internet TX-
	4	ETHTX+	Adaptive Ethernet port, Internet TX+
J4_5pin Alarm (A1251-05A, 1.25mm)	1	Alarm_IN	Alarm In
	2	GND	GND
	3	Alarm_OUT+	Alarm output via circuit switching (closed on alarm, open otherwise, non-polarized) (48V/1A Max)
	4	Alarm_OUT-	
	5	GND	GND
J5_5pin Audio (A1251-05A, 1.25mm)	1	AUDIO_Out	Audio Out (Line Out)
	2	GND	GND
	3	AUDIO_IN	Audio In (Line In)
	4	GND	GND
	5	CVBS	CVBS

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