SG-TCM06N2-25(19, 13)

- 640×512 Thermal Network Camera Module with 25mm(19mm, 13mm) Fixed Lens

1. Features

> 640×512 resolution, high sensitivity sensor.

> 12µm pixel pitch.

> 25mm(19mm, 13mm) fixed lens.

> Support various IVS functions.

> Support Fire Detection.

> Support Analog and Ethernet dual output.

2. Specification

	Model	SG-TCM06N2-25	SG-TCM06N2-19	SG-TCM06N2-13
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	25mm	19mm	13mm
	Focus	Manual	Manual	Manual
	Digital Zoom	8x	8x	8x
	F Value	F1.0	F1.0	F1.0
	FOV	17.46°×14.04°	22.85°×18.37°	32.91°×26.59°
Video	Compression	H.265/H.264/H.264H/H.264B/MJPEG		

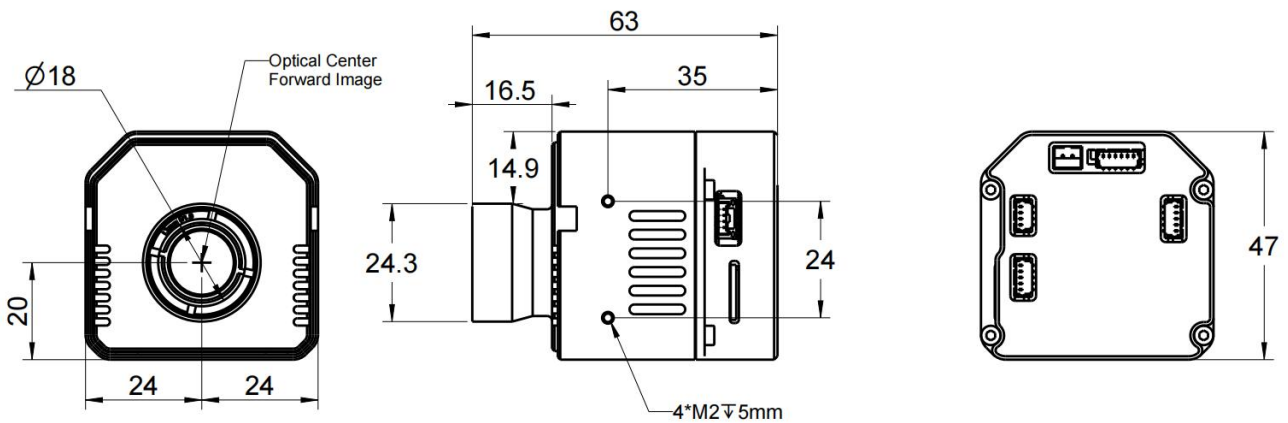|		
	Audio Compression	AAC / MP2L2
	Snapshot	JPEG
	Resolution	Main Stream: 50fps@(1280×1024, 1280×720, 704×576, 704×480) Sub-Stream1/2: 50fps@(704×576, 704×480, 352×288, 352×240)
	Video Bit Rate	4kbps~40Mbps
Network	Network Protocol	IPv4, IPv6, HTTP, HTTPS, TCP, UDP, RTSP, RTCP, RTP, ARP, NTP, FTP, DHCP, 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
FFC Mode		Auto / Manual
Image Setting		Brightness, Contrast, Sharpness, and Temporal Noise Reduction
OSD		Support
Flip		Support
Mirror		Support
Power Supply		DC 12V, 1A
Power Consumption		≤2.5W
Operating Conditions		-30°C~+60°C/20% to 80%RH
Storage Conditions		-40°C~+70°C/20% to 95%RH
The 1st Lens Protection Level		IP67
Dimensions(L*W*H)		75.3*48*47mm	69.3*48*47mm	63*48*47mm
Weight		Approx. 200g	Approx. 177g	Approx. 156g

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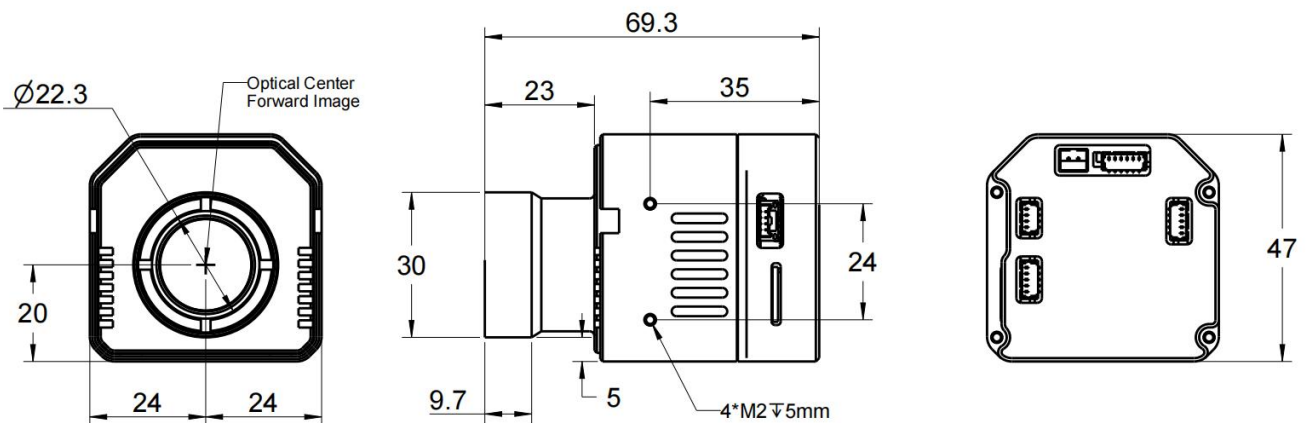
The recommended distances of Detection, Recognition and Identification are as follows:

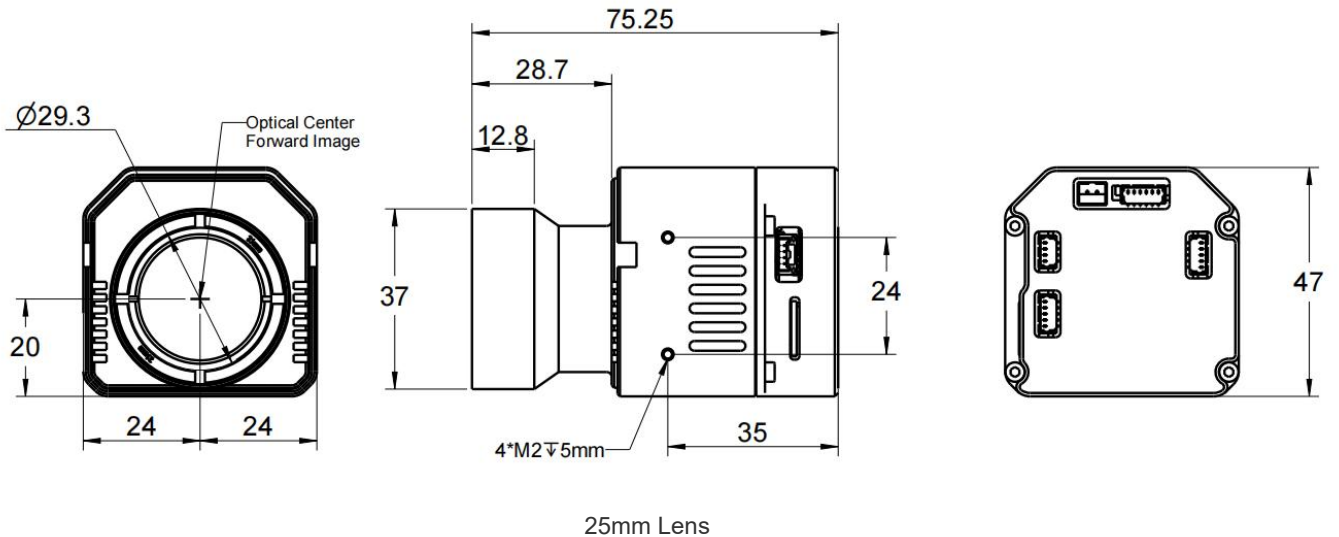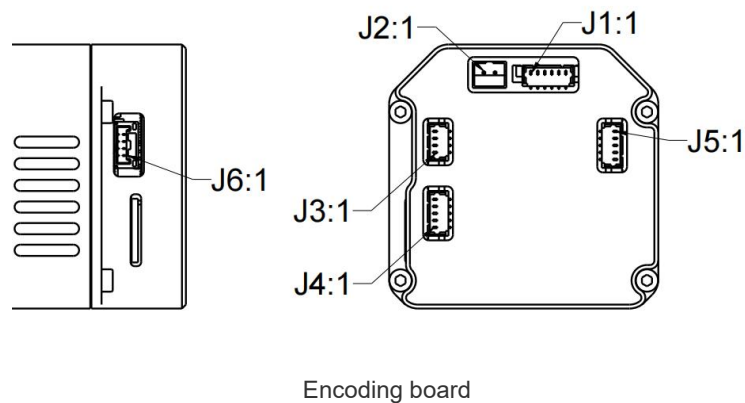| Lens	Detect			Recognize			Identify		
	Vehicle	Human	Fire	Vehicle	Human	Fire	Vehicle	Human	Fire
13mm	1661m (5449ft)	542m (1778ft)	94m (308ft)	415m (1362ft)	135m (443ft)	23m (75ft)	208m (682ft)	68m (223ft)	12m (39ft)
19mm	2428m (7966ft)	792m (2598ft)	137m (499ft)	607m (1991ft)	198m (650ft)	34m (112ft)	303m (994ft)	99m (325ft)	17m (56ft)
25mm	3194m (10479ft)	1042m (3419ft)	181m (594ft)	799m (2621ft)	260m (853ft)	45m (148ft)	399m (1309ft)	130m (427ft)	23m (75ft)

4. Dimension

13mm Lens

19mm Lens

25mm 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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