SG-TCM12N2-55(35)

- 1280×1024 Thermal Network Camera Module with 55mm(35mm) Fixed Lens

1. Features

> 1280×1024 resolution, high sensitivity sensor.

> 12μm pixel pitch.

> 55mm(35mm) fixed lens.

> Support various IVS functions.

> Support Fire Detection.

2. Specification

Model		SG-TCM12N2-55	SG-TCM12N2-35
Sensor	Image Sensor	Uncooled VOx microbolometer	
	Resolution	1280×1024	
	Frame Rate	50Hz	
	Pixel Pitch	12μm	
	Spectral Range	8~14μm	
	NETD	≤35mK@25°C, F#1.0	
Lens	Coating	DLC	
	Focal Length	55mm	35mm
	Focus	Manual	Manual
	Digital Zoom	8x	8x
	F Value	F1.0	F1.0
	FOV	15.90°×12.75°	24.75°×19.91°
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	
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	
EIS		Support	
OSD		Support	
Flip		Support	
Mirror		Support	
Power Supply		DC 12V, 1A	
Power Consumption		≤3.8W	
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)		Φ68*111.1mm	87.2*46*46mm
Weight		Approx. 430g	Approx. 224g

3. DRI Distance

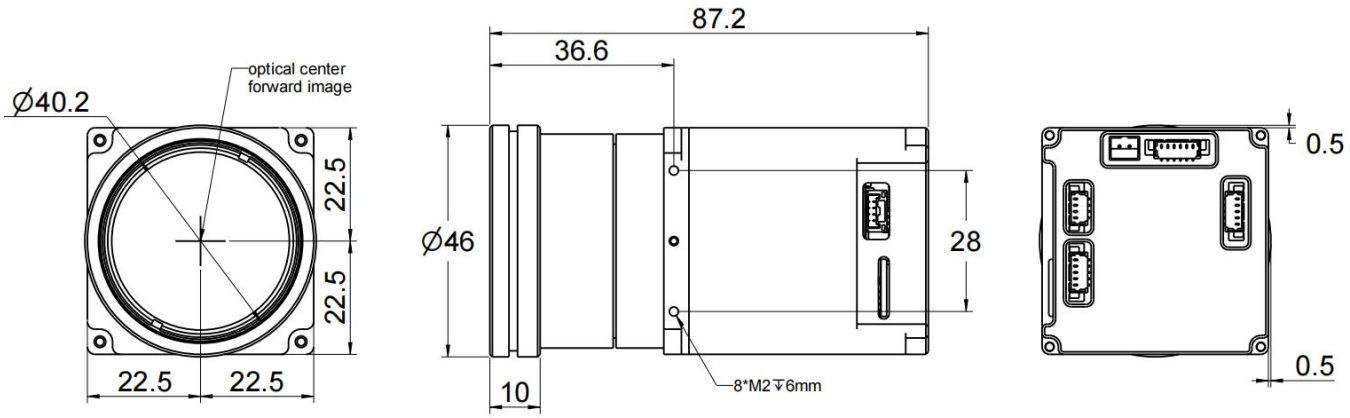
Target: Human size is 1.8m×0.5m (Critical size is 0.75m), Vehicle size is 1.4m×4.0m (Critical size is 2.3m); Fire size is 0.13m×0.13m (Critical size is 0.13m).

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

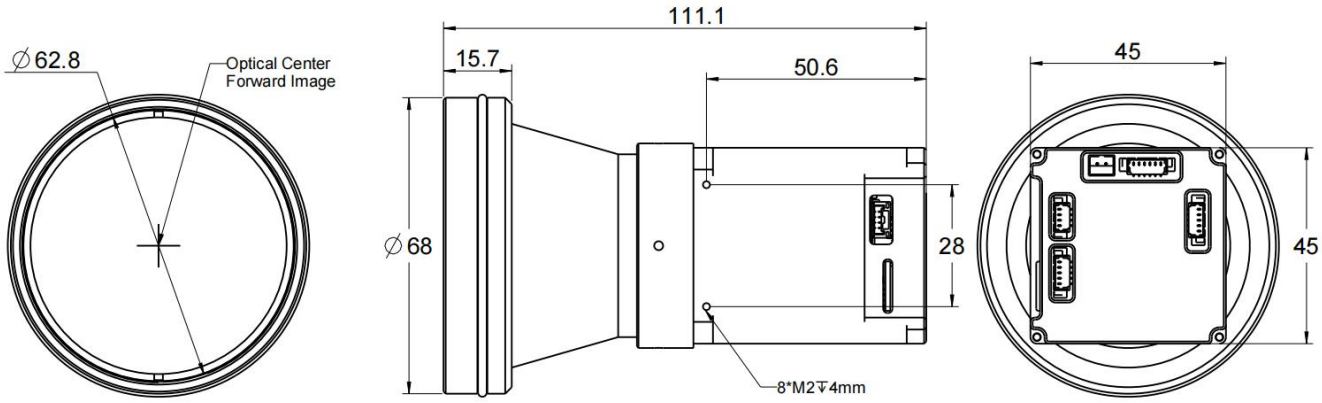
The recommended distances of Detection, Recognition and Identification are as follows:

Lens	Detect			Recognize			Identify		
	Vehicle	Human	Fire	Vehicle	Human	Fire	Vehicle	Human	Fire
35mm	4472m (14672ft)	1458m (4783ft)	253m (830ft)	1118m (3668ft)	365m (1198ft)	63m (207ft)	559m (1834ft)	182m (597ft)	32m (105ft)
55mm	7028m (23058ft)	2292m (7520ft)	397m (1302ft)	1757m (5764ft)	573m (1880ft)	99m (325ft)	878m (2281ft)	286m (938ft)	50m (164ft)

4. Dimension

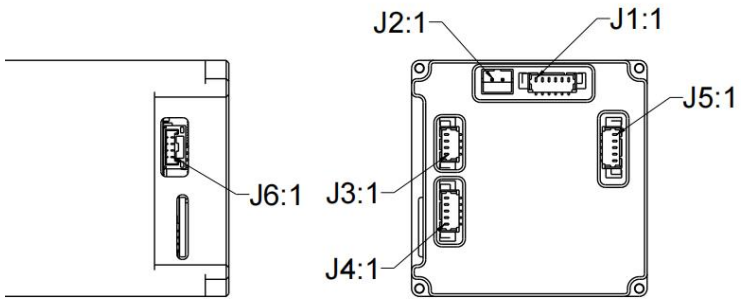


35mm Lens



55mm 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	NC	

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