

SG-TCM12N2-M50350

- 1280×1024 Thermal Network Camera Module with Motorized Lens



1. Features

- > 1280×1024 resolution, high sensitivity sensor.
- > 12μm pixel pitch.
- > 50~350mm motorized lens.
- > Support various IVS functions.
- > Support Fire Detection.

2. Specification

Model		SG-TCM12N2-M50350
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	50~350mm
	Lens Type	Motorized
	Optical Zoom	7x
	Digital Zoom	8x
	F Value	F1.0~F1.4

	FOV	17.46°×14.01°~2.51°×2.01°
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
Focus Mode		Auto / Manual / One Push AF
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
Typical Power Consumption		3.8W
Peak Power Consumption		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
Unit Dimensions (L*W*H)	Φ300*427mm
Packing Dimensions (L*W*H)	640*490*520mm
Weight	19.2kg (with bracket), 13.6kg (without bracket)

3. DRI Distance

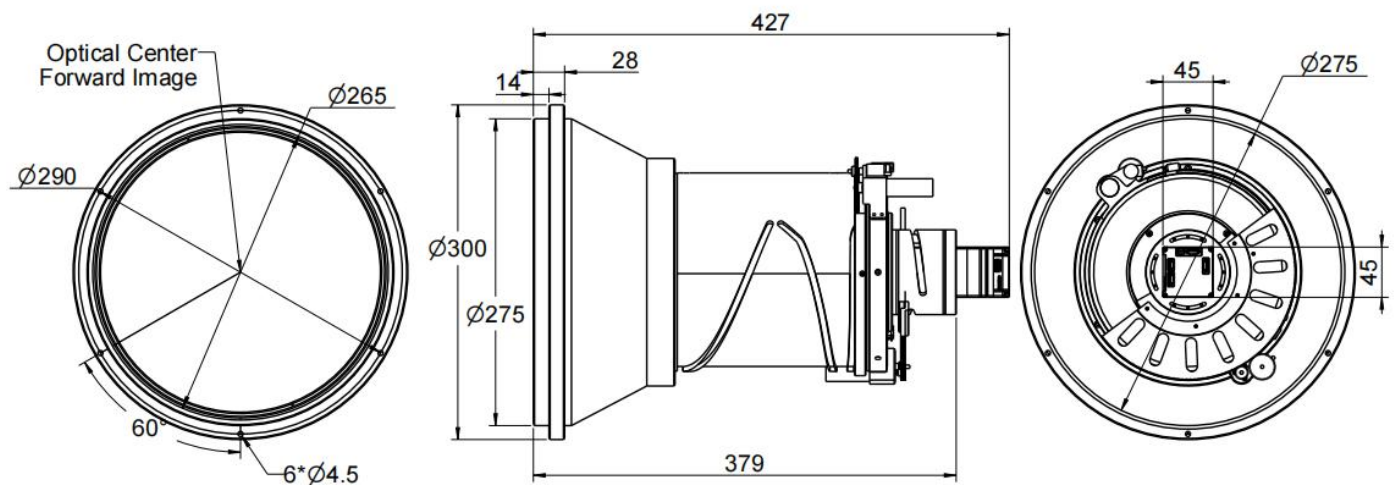
Target: Human size is 1.8m×0.5m (Critical size is 0.75m), Vehicle size is 1.4m×4.0m (Critical size is 2.3m); Fire size is 0.13m×0.13m (Critical size is 0.13m).

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

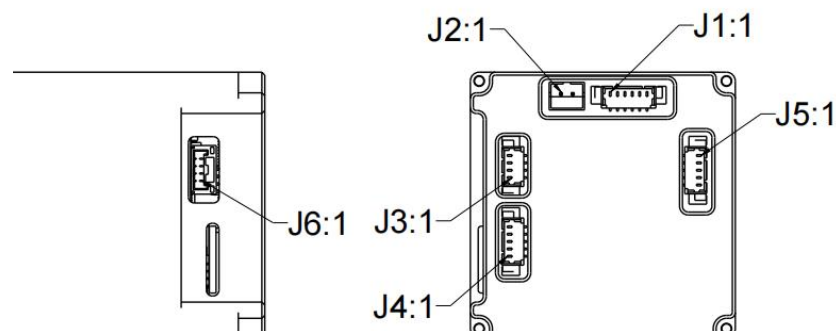
The recommended distances of Detection, Recognition and Identification are as follows:

Lens	Detect			Recognize			Identify		
	Vehicle	Human	Fire	Vehicle	Human	Fire	Vehicle	Human	Fire
50mm	6389m (20961ft)	2083m (6834ft)	361m (1184ft)	1597m (5240ft)	521m (1709ft)	90m (295ft)	799m (2621ft)	260m (853ft)	45m (148ft)
350mm	44722m (146726ft)	14583m (47844ft)	2528m (2894ft)	11181m (36683ft)	3646m (11962ft)	632m (2044ft)	5590m (18340ft)	1823m (5981ft)	361m (1184ft)

4. Dimension



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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