

SG-TCM12N2-M30120

- 1280×1024 Thermal Network Camera Module with Motorized Lens



1. Features

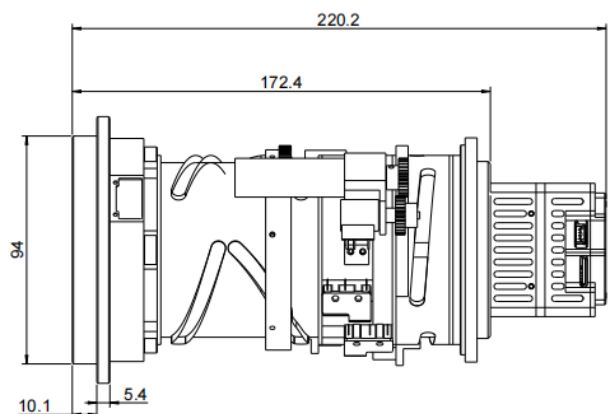
- > 1280×1024 resolution, high sensitivity sensor.
- > 12μm pixel pitch.
- > 30~120mm motorized thermal lens.
- > Support fast auto focus.
- > Support various IVS functions.
- > Support Fire Detection.
- > Support EIS function.
- > Support Network output (HD-SDI dual output optional).

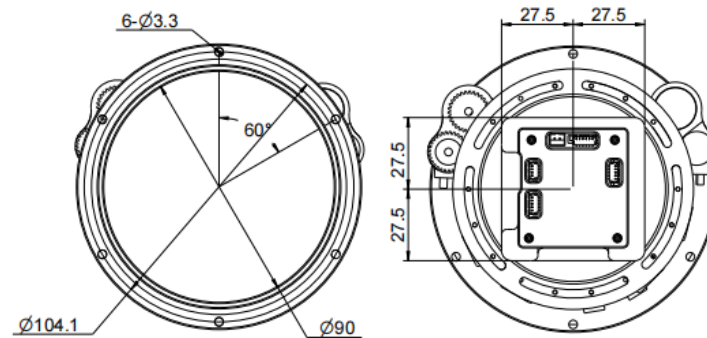
2. Specification

Model		SG-TCM12N2-M30120
Sensor	Image Sensor	Uncooled VOx microbolometer
	Resolution	1280×1024
	Pixel Size	12μm
	Spectral Range	8~14μm
	NETD	≤50mK@25°C, F#1.0
Lens	Focal Length	30~120mm motorized Lens
	Optical Zoom	4x
	Digital Zoom	4x
	F Value	F1.0~F1.4
	FOV	28.72°×23.15°~7.32°×5.86°
Video	Compression	H.265/H.264/H.264B/H.264H/MJPEG

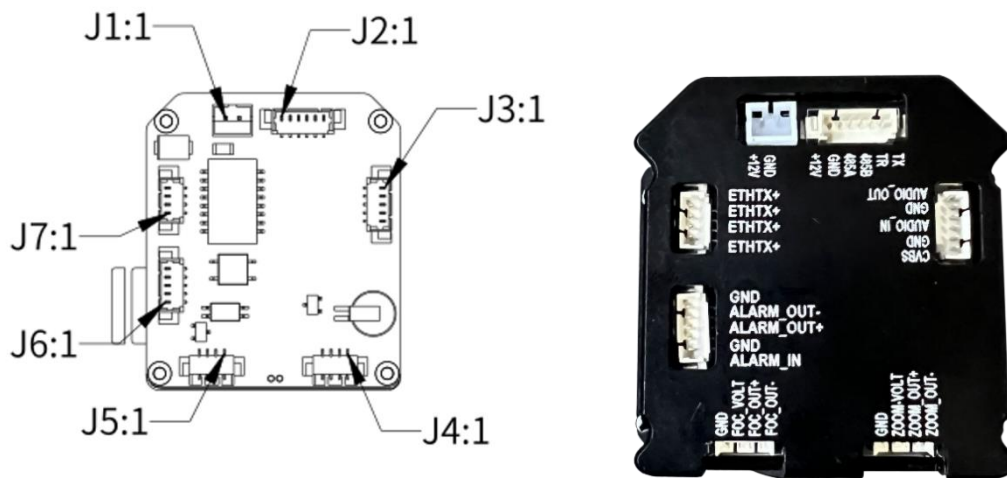
	Snapshot	JPEG
	EIS	Support
	Pseudo color	Support: White Hot, Black Hot, Iron Red, Rainbow 1, Fulgurite, Rainbow 2, Fusion, Bluish Red, Amber, Arctic, Tint
	Streams	Main Stream: 25/30fps@1280×1024, 25fps@704×576, 30fps@704×480 Sub-Stream: 25fps@704×576, 30fps@704×480, 25fps@352×288, 25fps@352×240
Network	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
	Interoperability	ONVIF, HTTP API, SDK, GB28181
	Max. Connection	20
Intelligence	General Events	Motion, Tamper, SD Card, Network
	IVS functions	Tripwire, Cross Fence Detection, Intrusion, Abandoned Object, Fast-Moving, Parking Detection, Crowd Gathering Estimation, Missing Object, Loitering Detection.
	Fire Detection	Support
Interface	Ethernet	4PIN Ethernet port, 10M/100M self-adaption
	HD-SDI(Optional)	1ch HD-SDI
	Alarm In/Out	1/1
	Audio In/Out	1/1
	RS485	Support
Resolution		50Hz: 25fps@(1280×1024)
Storage Capabilities		Micro SD/SDHC/SDXC card (Up to 1TB) edge storage, FTP, NAS
Power Supply		DC 12V, 1A
Power Consumption		Static power: 4W, Sports power: 8W
Operating Conditions		-30°C~+60°C/20% to 80%RH
Storage Conditions		-40°C~+70°C/20% to 95%RH
Dimensions		Φ110 (Flange) × 221mm, Φ115 (Max. Overall Dimension)
Weight		Approx. 1.69kg

3. Dimension





4. Interface Definition



Encoding board

Type	PIN Number	PIN Name	Description
J1_2pin Power (A2001AWR-02 2.0MM)	1	DC_IN	DC12V±10%
	2	GND	GND
J2_6pin Power & UART Interface (A1251-06A 1.25MM)	1	DC_IN	DC12V±10%
	2	GND	GND
	3	485+	RS485+, Pelco Protocol
	4	485-	RS485-, Pelco Protocol
	5	RXD0	TTL 3.3V, Visca Protocol
	6	TXD0	TTL 3.3V, Visca Protocol
J3_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
J4_Thermal Zoom	1~4	Zoom	Thermal Zoom
J5_Thermal Focus	1~4	Focus	Thermal Focus
J6_5pin Alarm	1	Alarm_IN	Alarm In

(A1251-05A 1.25MM)	2	GND	GND
	3	Alarm_OUT+	Alarm Out
	4	Alarm_OUT-	Alarm Out
	5	GND	GND
J7_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+

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