

SG-UCM8003NKL-T19T

- Thermal + Optical Bi-spectrum Network Camera Module.

- 640x512 Thermal + 8MP 3.5x Zoom Starlight Network Camera Module



1. Features

- > 1 Channel Thermal and Visible Video complex stream.
- > One single Main Control Chip, more stable than double IP version products.
- > Smart tracking on both Thermal camera (Night) and Visible camera (Day)
- > Support various OSD information overlay.
- > Accurate focus, high speed, great image effects, precise color reproduction, excellent night vision with low light effects.

Visible Camera

- > 1/2.3" Sony Exmor CMOS Sensor.
- > Powerful 3.5x optical zoom (3.85~13.4mm).
- > Max. 12MP(4000x3000) Resolution
- > Support Electronic Defog
- > Support various OSD
- > **With NOVATEK high performance chip.**

Thermal Camera

- > 640x512 Resolution, high sensitivity sensor
- > 12 μ m Pixel pitch.
- > 19mm Fixed Thermal Lens
- > Modular design, with the same block size for CCTV Monitoring version

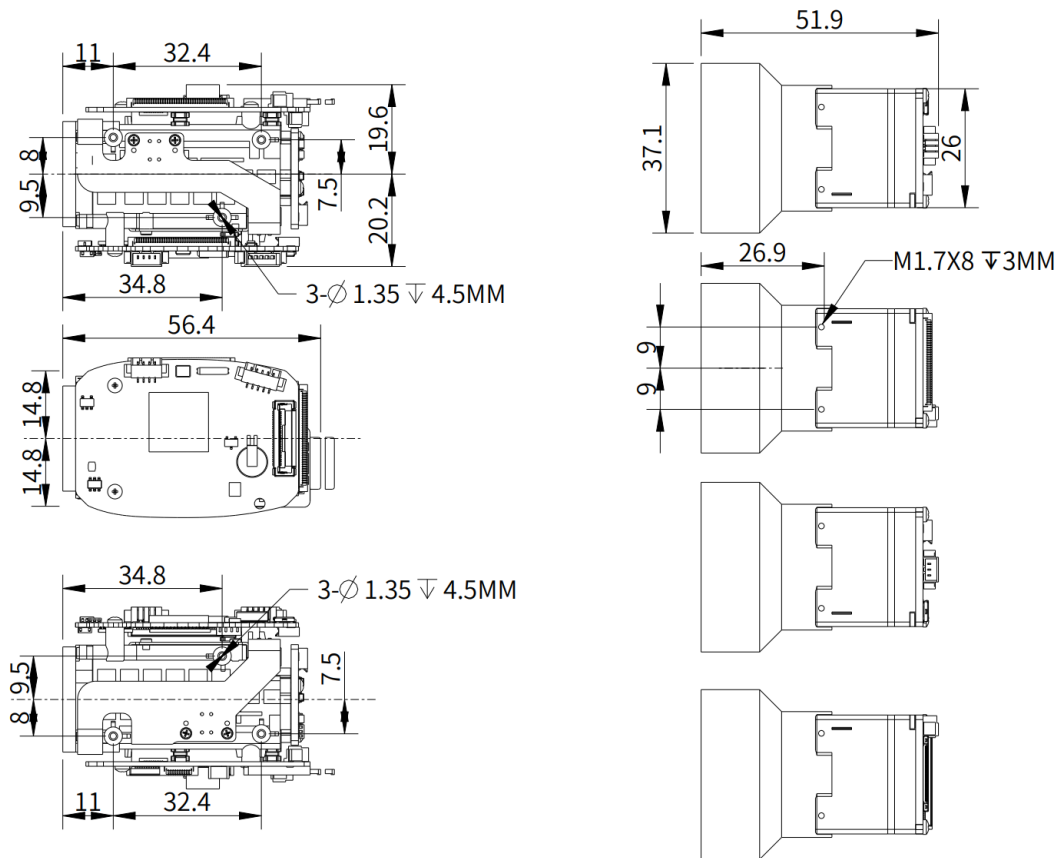
2. Specification

Model		SG-UCM8003NKL-T19T
Thermal		
Sensor	Image Sensor	Uncooled VOx Microbolometer
	Resolution	640 x 512

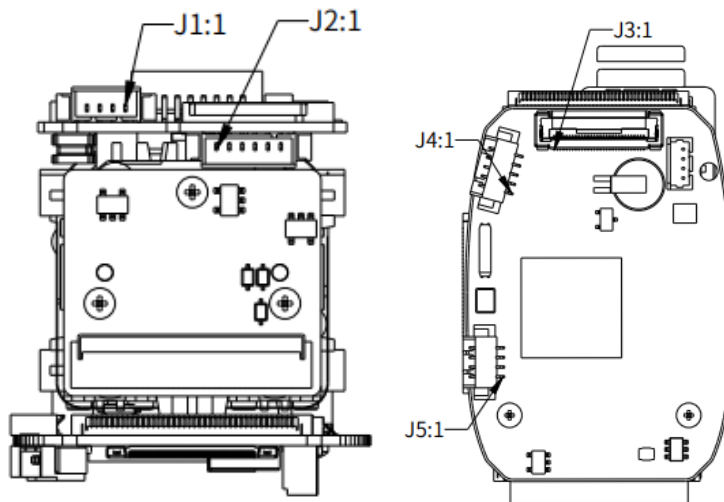
	Pixel Size	12 μ m			
	Spectral Range	8~14 μ m			
Lens	Focal Length	19mm			
	F Value	F1.0			
	Focus	Athermalized, Focus-free			
	Angle of View	22.9°x18.4°			
Video Network	Compression	H.265/H.264/H.264H			
	Network Protocol	Onvif, GB28181, HTTP, RTSP, RTP, TCP, UDP			
Resolution	50Hz: 25fps@(1280x1024, 1280x720) 60Hz: 30fps@(1280x1024, 1280x720)				
IVS	Tripwire, Cross Fence Detection, Intrusion				
Digital Zoom	8x				
Fire Detection	Support				
Temperature	Temperature measurement	Support			
	Measurement Range	Low-T mode: -20°C~150°C, High-T mode: 100°C~650°C			
	Measurement Accuracy	\pm 3 °C or \pm 3% (Take large values)			
	Measurement Tools	12 spots / 12 areas / 12 lines / Max. & Avg. & Min. Temp on screen / Max. 12 rules / Comparative analysis			
	Actions	Tigger Relay out, Snapshot, Record, PTZ call, High & Low Temp track.			
Visible					
Sensor	Image Sensor	1/2.3" Sony Starvis progressive scan CMOS			
	Effective Pixels	Approx. 12.93 Megapixel			
Lens	Focal Length	3.85mm~13.4mm, 3.5x Optical Zoom			
	Aperture	F2.4~F5.03			
	Field of View	H: 82°~25°			
	Close Focus Distance	1m~2m (Wide~Tele)			
	Zoom Speed	Approx. 2.5s (Optical Wide~Tele)			
	DORI Distance (Human)	Detect	Observe	Recognize	Identify
	346m	137m	69m	34m	
Video	Compression	H.265/H.264/H.264H/MJPEG			
	Streaming Capability	3 streams			
	Resolution	50Hz: 10fps@12MP(4000x3000), 25fps@8MP(3840x2160) 60Hz: 10fps@12MP(4000x3000), 30fps@8MP(3840x2160)			
	Video Bit Rate	32kbps~16Mbps			
	Audio	AAC / MP2L2			
Network	Storage	TF card (256 GB), FTP, NAS			
	Network Protocol	Onvif, HTTP, HTTPS, IPv4, IPv6, RTSP, DDNS, RTP, TCP, UDP			
	Multicast	Support			

IVS	Tripwire, Cross Fence Detection, Intrusion, Abandoned Object, Fast-Moving, Parking Detection, Crowd Gathering Estimation, Missing Object, Loitering Detection.
S/N Ratio	≥55dB (AGC Off, Weight ON)
Minimum Illumination	Color: 0.5Lux/F2.4;
Noise Reduction	2D/3D
Exposure Mode	Auto, Aperture Priority, Shutter Priority, Gain Priority, Manual
Exposure Compensation	Support
Shutter Speed	1/1~1/30000s
BLC	Support
HLC	Support
WDR	Support
White Balance	Auto, Manual, Indoor, Outdoor, ATW, Sodium lamp, Street lamp, Natural, One Push
Day/Night	Electrical, ICR(Auto/Manual)
Focus Mode	Auto, Manual, Semi Auto, Fast Auto, Fast Semi Auto, One Push AF
Electronic Defog	Support
Flip	Support
EIS	Support
Digital Zoom	16x
External Control	TTL
Interface	4pin Ethernet port, 6pin Power & UART port, 5pin Audio port.
Communication Protocol	SONY VISCA, Pleco D/P
General	
Operating Conditions	-30°C~+60°C/20% to 80%RH
Storage Conditions	-40°C~+70°C/20% to 95%RH
Power Supply	DC 12V±15% (Recommend: 12V)
Power Consumption	Static power: 4.5W, Sports power: 8W
Dimensions(L*W*H)	Thermal: 52mm*37mm*37mm, Visible: 56mm*35mm*39mm
Weight	Thermal: 67g, Visible: 55g

3. Dimension



4. Interface Definition:



Type	PIN Number	PIN Name	Description
(1)J1_4PIN Internet Interface	1	ETHRX-	Internet RX-
	2	ETHRX+	Internet RX+
	3	ETHTX-	Internet TX-
	4	ETHTX+	Internet TX+
(2)J2_6PIN Power & UART Interface	1	DC_IN	DC12V \pm 10%
	2	GND	GND
	3	RXD1	TTL 3.3V, Pelco Protocol

	4	TXD1	TTL 3.3V, Pelco Protocol
	5	RXD0	TTL 3.3V, Visca Protocol
	6	TXD0	TTL 3.3V, Visca Protocol
J4_5pin Audio Interface	1	AUDIO_OUT	Audio Out (Line Out)
	2	GND	GND
	3	AUDIO_IN	Audio In (Line In)
	4	GND	GND
	5	NC	NC

Note: J3:1 and J5:1 are extended debug interface.

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