SN-TPC4203AT-F

Thermal Network Box Camera

Key Features
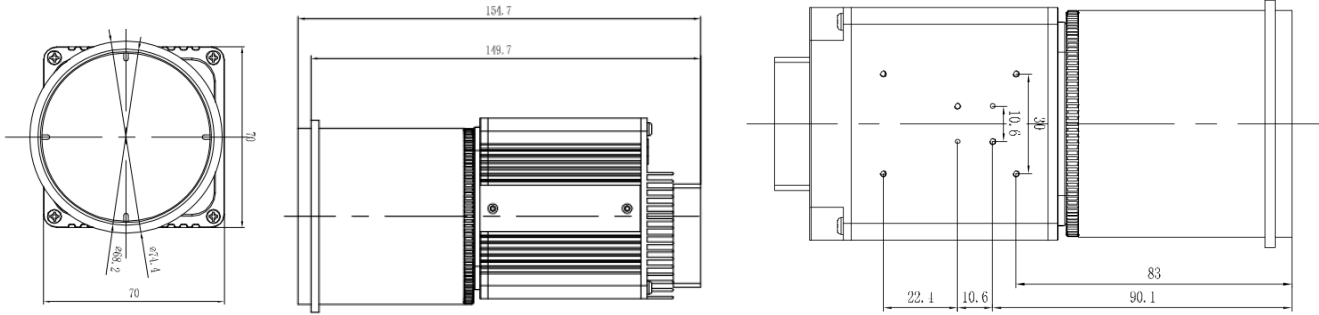
- Uncooled VOx Micro bolometer with 400×300 resolution
- 8/15/25/35/50 mm fixed lens optional
- Sensitivity ≤40mK
- Support temperature monitoring exception alarm
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature measurement range: -20°C ~ 150°C (-4°F ~ 302°F)
- Support human and vehicle detection
- Smart detection: intrusion, single line crossing, double line crossing, loitering, wrong way, people counting, enter area, leave area
- DVE image enhance

Specification

Thermal Camera	
Detector Type	Uncooled IRFPA Microbolometer
Resolution	Sensor is 400×300. Image can be scaled up to 704×576
Pixel Pitch	17 um
Spectral Range	8-14μm
Thermal Sensitivity (NETD)	≤ 40 mK
Lens Type	Fixed
Focus Control	Manual Focus

Focal Length	8 mm	15 mm	25 mm	35 mm	50 mm
F No.	F1.0	F1.0	F1.0	F1.0	F1.0
Angle of View	H: 46°, V:35.3°	H:25.5°, V:19.2°	H:15.4°, V:11.6°	H: 11°, V:9°	H: 7.7°, V:5.8°
Detection Distance (Fire: 1m×1m)	235 m	441 m	735 m	1029 m	1471 m
Detection Distance (Humans: 1.8×0.5m)	235 m	441 m	735 m	1029 m	1471 m
Detection Distance (Vehicles: 4×1.5m)	722 m	1353 m	2255 m	3137 m	4510 m
Recognition Distance (Humans: 1.8×0.5m)	59 m	110 m	184 m	257 m	368 m
Recognition Distance (Vehicles 4×1.5m)	180 m	338 m	564 m	789 m	1127 m

Video and Audio	
Main Stream	704×576 @ 25/30fps
Sub Stream	CIF @ 25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Main stream: 100Kbps ~ 6Mbps Sub stream: 10Kbps ~ 1.5Mbps
Region of Interest	Off / On (8 Zone, Rectangle)
Smart Encode	Support
Audio Compression	G.711: 8kbps, RAW_PCM: 16kbps

Image	
Image Setting	Brightness, Sharpness, Contrast
Mirror	Support
Pseudo-color Setting	White-hot/Black-hot/Rainbow/Ironbow etc. up to 17 modes
DVE Image Enhance	Support
Noise Reduction	2D/3D DNR
Privacy Masking	Support

Smart Function	
Smart Alarm	Motion detection, Disk alarm, I/O alarm, IVS alarm, Temperature detection & alarm
AI Multi-object	Support human and vehicle detection
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong way, Enter area, Leave area (these 7 function support accurate detection of people/vehicles) , People counting

Temperature Detection	
Temperature Detection	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).
Temperature Alarm	Over temperature alarm, Temperature difference alarm
Accuracy	±2℃ / ±2%
Response Time	≤ 30ms
Temperature Range	-20°C ~ 150°C (-4°F ~ 302°F)
Temperature display mode	Temperature target >5℃, Display absolute temperature value, Temperature target ≤5℃, Display relative temperature value (temperature difference DEV = highest value - average)

Network	
Protocols	IPv4/IPv6 ,HTTP,RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, 802.1x
Interoperability	ONVIF, CGI, SDK
Max. User Access	10 Users
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge
Web Language	English, Chinese, Polish, Italian, Portuguese, Spanish. Russian, French, Czech, Hungarian

Interface	
Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	1ch input, 1ch output
Alarm Interface	2ch input, 2ch output
RS485	Support
Reset Button	Support
SD Card Slot	Support, up to 256GB

General	
Power Supply	DC12V ±10%
Power Consumption	Max 5 W
Working Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Storage Conditions	0~ 90% RH
Certifications	CE /FCC
Ingress Protection	N/A
Casing	Metal
Dimensions	154.7 × 70 × 70 mm (6.09 × 2.76 × 2.76 inch)
Net Weight	0.7 kg (1.54 lb) with 50 mm lens

Dimensions (mm)

Accessories

Optional: