



# SN-TPC4203AT-F

Thermal Network Box Camera



## Key Features

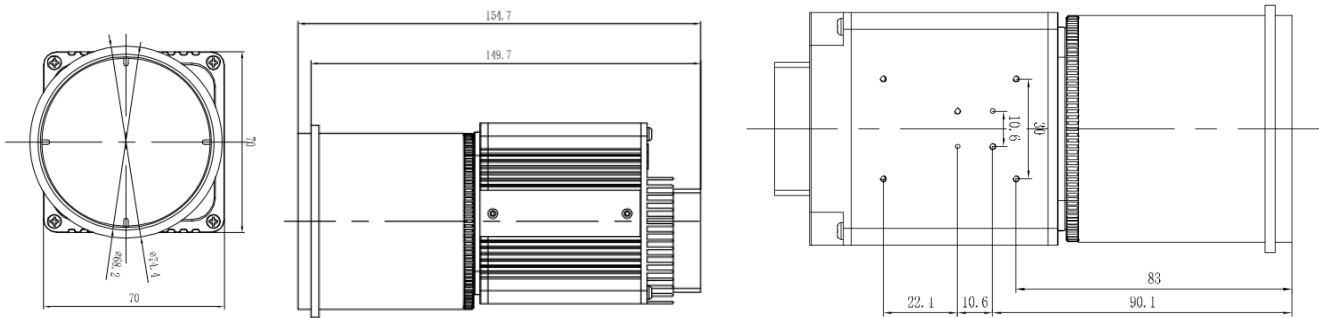
- Uncooled VOx Micro bolometer with 400×300 resolution
- 8/15/25/35/50 mm fixed lens optional
- Sensitivity  $\leq 40\text{mK}$
- Support temperature monitoring exception alarm
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature measurement range:  $-20^{\circ}\text{C} \sim 150^{\circ}\text{C}$  ( $-4^{\circ}\text{F} \sim 302^{\circ}\text{F}$ )
- 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<br>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℃ ~ 150℃ (-4°F ~ 302°F)                                                                                                                                                       |
| Temperature display mode | Temperature target >5℃, Display absolute temperature value,<br>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℃ ~ 60℃ (-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: