



HIKMICRO

QF610

Thermographic Network Box Camera



The Thermographic Network Box Camera with small size, low power consumption and simple integration realizes real-time high-accuracy object temperature measurement.

▪ Features

- High sensitivity sensor with 640 x 512 resolution.
- Object temperature range: -20°C to 150°C, 0 °C to 650 °C; Max (± 2 °C, $\pm 2\%$).
- Temperature measurement at 3 user-defined rule types (max. 21 points, max. 21 areas, and max. 1 line).
- A highlighted cross at the max. temperature in the thermal image.
- Thermal image frame rate: 50 fps.
- Supports real-time acquisition of raw data pushed by the device via the network or USB for temperature measurement and image analysis.
- Supports 18 pseudocolor modes.

• Specification

Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	640 × 512
Pixel Pitch	12 μm
Spectral Range	8 μm to 14 μm
NETD	≤ 30 mk(@25 °C,F#=1.0)
Focal Length	5mm 10mm 18mm
IFOV	5mm : 2.40mrad 10mm: 1.20mrad 18mm: 0.67mrad
Field of View	5mm : 90.0°(H)×70.1°(V) 10mm: 45.2°(H)×36.1°(V) 18mm: 24.2°(H)×19.4°(V)
Min. Focusing Distance	5mm : 0.35 m 10mm: 1.30 m 18mm: 4.00 m
Aperture	5mm : F1.0 10mm: F1.0 18mm: F1.1
Measurement and Analysis	
Object Temperature Range	-20 °C to 150 °C , 0°C to 650 °C
Temperature Accuracy	Max (± 2 °C, ± 2%)
Measurement Presets	3 temperature measurement rule types, 21 rules (max. 21 points, max. 21 regions, and max. 1 line). *The total No. of rules enabled at the same time can't exceed 21.
Video and Image	
Main Stream	50 fps (640 × 512)
Video Compression	H.265/H.264/MJPEG
Color Palettes	18 options: White Hot, Black Hot, Fusion 1, Rainbow, Fusion 2, Ironbow 1, Ironbow 2, Speia, Color 1, Color 2, Ice Fire, Rain, Red Hot, Green Hot, Dark Blue, Winter, Summer, Blue Red
Digital Zoom	×2, ×4, ×8
Radiometric Capture	Yes
Radiometric Infrared-Video Streaming (Compressed)	Over RJ45/UVC, 640 x 512@50 fps

Network	
Protocols	IPv4,HTTP,HTTPS,802.1x,Qos,FTP,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RTCP ,RTP,TCP,UDP,IGMP,ICMP,DHCP,ISUP,GB28181,ONVIF,modbusTCP,WebSocket,PPoE,SRTP,OTAP
Simultaneous Live View	Up to 20 channels
Security	User authentication (ID and Password), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering
Client	HIKMICRO Studio
Interface	
Alarm Input	1, alarm input (0-3.3 V DC)
Alarm Output	1, alarm output; NO, Built-in relay (max. DC 60V 1.3A)
Analog Output	1, CVBS output
Communication Interface	1, RJ45 10 M/100 M/1000 M self-adaptive Ethernet interface 1, RS-485 interface (HIKVISION, PELCO-P, PELCO-D, modbusRTU, modbusASCII) 1, USB type-c port that supports the UVC protocol
General	
Menu Language	33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
Power Supply	12V DC, Max. 3.5 W
Working Temperature/Humidity	-20 °C to 60 °C 90% or less
Protection Level	IP40
Mount	M3
Weight	5mm : Approx. 168 g 10mm: Approx. 165 g 18mm: Approx. 161 g
Dimensions	5mm : 79.6 × 44.2 × 44.2 mm 10mm: 71.8 × 44.2 × 44.2 mm 18mm: 69.8 × 44.2 × 44.2 mm

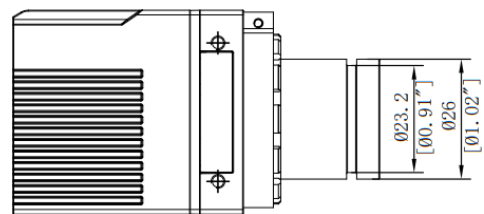
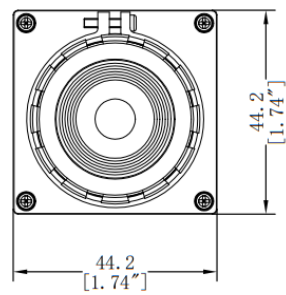
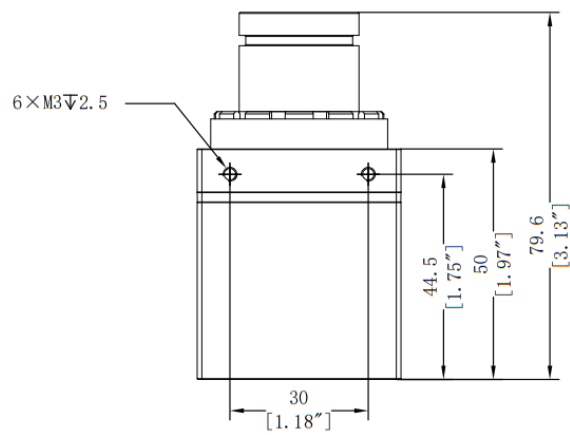
▪ Available Model

HM-TD2068T-5/Q

HM-TD2068T-10/Q

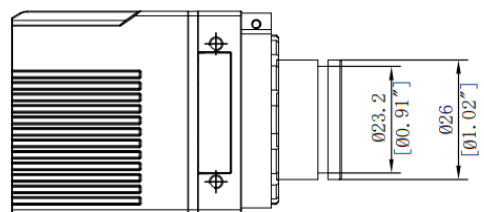
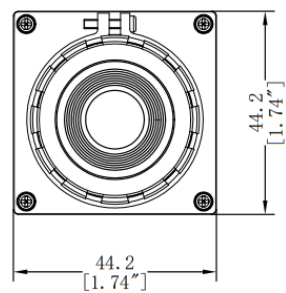
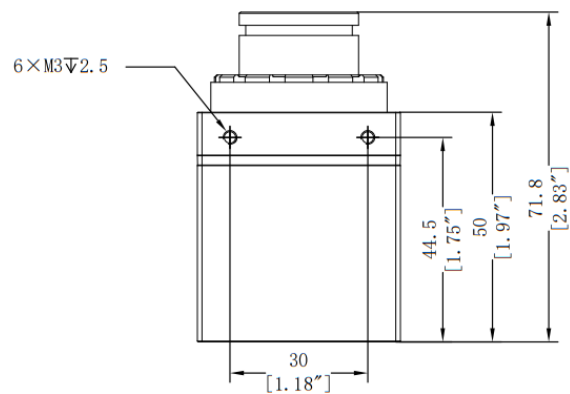
HM-TD2068T-18/Q

▪ Dimension



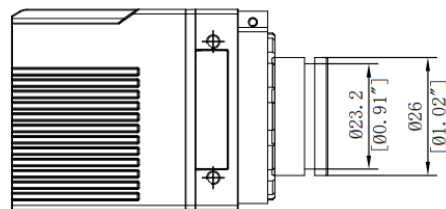
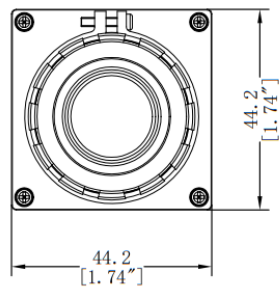
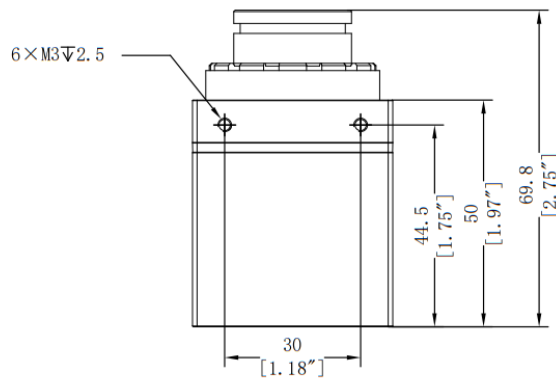
5 mm

Unit:mm[Inch]



10 mm

Unit:mm[Inch]



18 mm

Unit:mm[Inch]

▪ Note

COMPLIANCE NOTICE: The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.

