



# HIKMICRO

## HM-TD2037T-15/X 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.

### Key Features

- 384 × 288 resolution, high sensitivity sensor
- Object temperature range: -20°C to 150°C (-4°F to 302°F), 0°C to 550°C (32°F to 1022°F); Max. ( $\pm 2^{\circ}\text{C}$ ,  $\pm 2\%$ )
- Temperature measurement at user-defined points, lines, and areas
- A highlighted cross at the max. temperature in the thermal image
- Thermal image frame rate: 50 fps
- Color alarm (isotherm) available for Above, Between, and Below object temperatures

## ▪ Specification

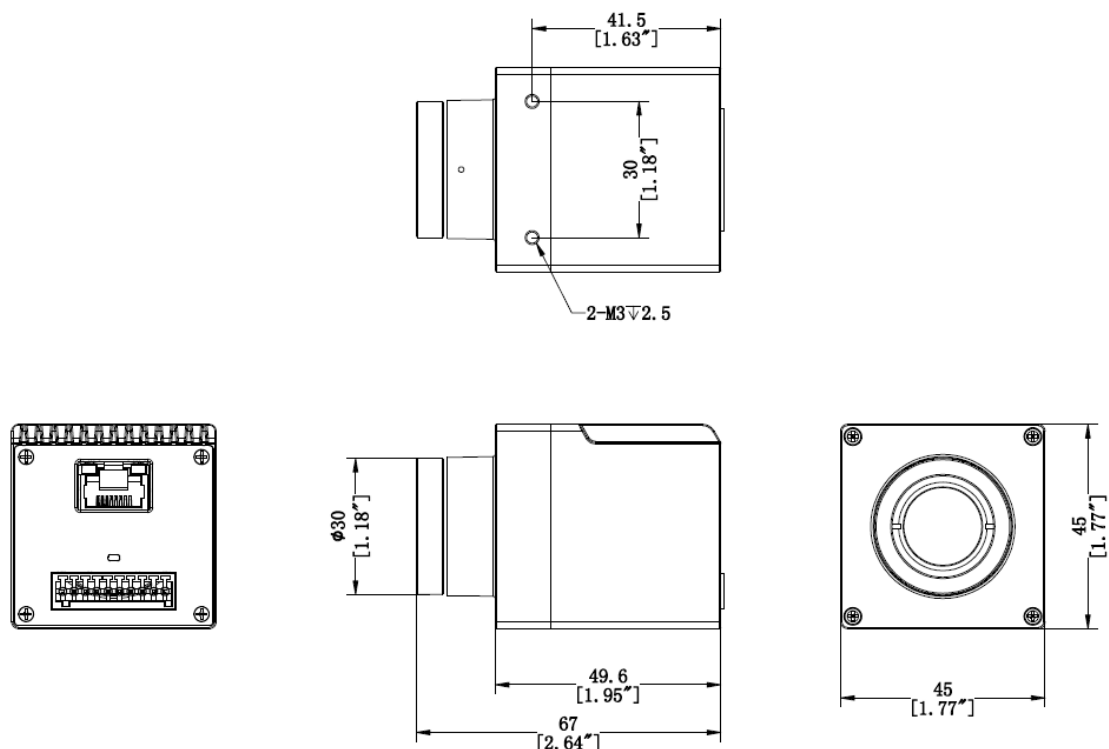
| Thermal Module              |                                                                                                                                                             |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                | Vanadium Oxide Uncooled Focal Plane Arrays                                                                                                                  |
| Resolution                  | 384 × 288                                                                                                                                                   |
| Pixel Pitch                 | 17 μm                                                                                                                                                       |
| Spectral Range              | 8 μm to 14 μm                                                                                                                                               |
| NETD                        | < 35 mK (25°C, F# = 1.0)                                                                                                                                    |
| Focal Length                | 15 mm                                                                                                                                                       |
| IFOV                        | 1.13 mrad                                                                                                                                                   |
| Field of View               | 24.3° × 18.4° (H × V)                                                                                                                                       |
| Min. Focusing Distance      | 3 m                                                                                                                                                         |
| Aperture                    | F1.0                                                                                                                                                        |
| Measurement and Analysis    |                                                                                                                                                             |
| Object Temperature Range    | -20°C to 150°C (-4°F to 302°F), 0°C to 550°C (32°F to 1022°F)                                                                                               |
| Temperature Accuracy        | Max. (± 2°C, ± 2%)                                                                                                                                          |
| Measurement Presets         | Hot spot, cold spot in real time                                                                                                                            |
| Point                       | 10 User Presets                                                                                                                                             |
| Line                        | 1 User Presets                                                                                                                                              |
| Area                        | 7 User Presets                                                                                                                                              |
| Color Alarm (Isotherm)      | Above/Between/Below                                                                                                                                         |
| Thermographic Integration   |                                                                                                                                                             |
| Temperature Metadata        | Continuous output data of preset thermographic rules and measured temperature                                                                               |
| Thermographic Data Encoding | 4 fps, 32-bit 384 × 288 per frame                                                                                                                           |
| Thermographic Data Upload   | Real-time full-screen thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP, ISAPI, and SDK                                                       |
| Raw Data Upload             | Real-time full-screen YUV data via RTSP and SDK                                                                                                             |
| Video and Image             |                                                                                                                                                             |
| Main Stream                 | 50 fps (384 × 288)                                                                                                                                          |
| Video Compression           | H.264/MJPEG                                                                                                                                                 |
| Color Palettes              | 15 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 |
| Network                     |                                                                                                                                                             |
| Protocols                   | IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP                                           |
| Simultaneous Live View      | Up to 3 channels                                                                                                                                            |
| User/Host level             | Up to 32 users, 3 levels: Administrator, Operator, User                                                                                                     |
| Security                    | User authentication (ID and PW), HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering                                     |
| Client                      | HIKMICRO Studio                                                                                                                                             |
| Interface                   |                                                                                                                                                             |
| Alarm Input                 | 1, alarm input (0 to 3.3 VDC)                                                                                                                               |
| Alarm Output                | 1, alarm output; NC, level quantity                                                                                                                         |
| Analog Output               | 1, CVBS output                                                                                                                                              |

|                              |                                                                                               |
|------------------------------|-----------------------------------------------------------------------------------------------|
| Communication Interface      | 1, RJ45 10 M/100 M self-adaptive Ethernet interface<br>1, RS-485 interface (ModBus available) |
| <b>General</b>               |                                                                                               |
| Menu Language                | English                                                                                       |
| Power Supply                 | 10 to 30 VDC, Max. 2.3 W                                                                      |
| Working Temperature/Humidity | -20°C to 50°C (-4°F to 122°F)<br>90% or less                                                  |
| Protection Level             | IP40                                                                                          |
| Mount                        | M3                                                                                            |
| Weight                       | Approx. 140 g (0.33 lb)                                                                       |
| Dimensions                   | 67 mm × 45 mm × 45 mm (2.64" × 1.77" × 1.77")                                                 |

#### ▪ Available Model

HM-TD2037T-15/X

## ▪ Dimension



Unit:mm[Inch]

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