



HIKMICRO

HM-TD3028T-2/Q(B) Thermography Cube Camera



Hikmicro HM-TD3028T-2/Q(B) Thermographic Cube Camera is able to measure object's temperature at a high accuracy in real time. It is applied to fire prevention purpose in electric system, industrial automation and so on. The pre-alarm system helps you discover unexpected events immediately and protects your property.

▪ Features

- 256 × 192 resolution, 12 μm , VOx UFPA, NETD $\leq 40\text{mK}$ (25°C, F1.0)
- Support white light supplement
- Temperature exception alarm for fire prevention, -20 °C to 550 °C (-4 °F to 1022 °F), Max. (± 2 °C, $\pm 2\%$)
- Built-in buzzer for audible warning when anomaly temperature detected
- Support Modbus TCP for 3rd integration
- Image processing technology: linear, histogram, self-adaptive thermal AGC mode, DDE, 3D DNR
- High quality detector with 10 years guarantee

▪ Specification

| Thermal Module | |
|--------------------------|--|
| Image Sensor | Vanadium Oxide Uncooled Focal Plane Arrays |
| Resolution | 256 × 192 |
| Pixel Pitch | 12 μm |
| Spectral Range | 8 μm to 14 μm |
| NETD | ≤40 mK (25°C, F1.0) |
| Focal Length | 2.1 mm |
| IFOV | 5.71mrad |
| Field of View | 90° × 64.2° (H × V) |
| Min. Focusing Distance | 0.1 m |
| Aperture | F1.0 |
| Digital Zoom | ×2, ×4 |
| Optical Module | |
| Image Sensor | 1/5" Progressive Scan CMOS |
| Resolution | 2688 × 1520 |
| Min. Illumination | 0.06 Lux @ (2.2, AGC ON), 0 Lux with IR |
| Shutter Speed | 1 s to 1/100,000 s |
| Focal Length | 1.4mm |
| Field of View | 96.9° × 77.2° (H × V) |
| Aperture (Range) | F2.2 |
| WDR | 120 dB |
| Image Effect | |
| Bi-spectrum Image Fusion | Display the details of optical channel on thermal channel |
| Picture in Picture | Display partial image of thermal channel on the full screen of optical channel |
| Target Coloration | Yes. Supported in white hot and black hot mode. |
| Audible and Visual Alarm | |
| White Light Range | Up to 3.5 m |
| Visual Alarm | Yes. White light alarm |
| Audio alarm | Buzzer triggered when alarm happens |
| Smart Function | |
| Temperature Measurement | 3 temperature measurement rule types (point, area, line), 21 rules in total |
| Temperature Range | -20 °C to 550 °C (-4 °F to 1022 °F) |
| Temperature Accuracy | Max (± 2 °C, ±2 %) |

Video and Audio

| | |
|-------------------|---|
| Main Stream | Thermal: 25 fps (1280 × 960, 1280 × 720, 704 × 576, 640 × 512) Optical: 50 Hz: 25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) |
| Sub-stream | Thermal: 25 fps (704 × 576, 640 × 512, 320 × 240) Optical: 50 Hz: 25 fps (704 × 576, 352 × 288) 60 Hz: 30 fps (704 × 480, 352 × 240) |
| Video Compression | Main Stream: H.265/H.264 Sub-Stream: H.265/H.264/MJPEG |

Video and Image

| | |
|----------------|--|
| Color Palettes | 17 types (White hot, Black hot, Fusion 1, Rainbow, Fusion 2, Ironbow 1, Ironbow 2, Sepia, Color 1, Color 2, Ice fire, Rain, Red hot, Green hot, Dark blue, Winter, Summer) |
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Network

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|------------------------|--|
| Protocols | IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, CP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour, SFTP, SRTP |
| Network Storage | NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR) |
| API | ISAPI, ISUP, HIKVISION SDK, and third-party management platform, Open Network Video Interface (Profile S, Profile G, Profile T), OTAP |
| Simultaneous Live View | Up to 20 channels |
| User/Host level | Up to 32 users, 3 levels: Administrator, Operator, User |
| Security | User authentication (ID and Password), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering |
| Client | iVMS-4200, Hik-Connect |
| Web Browser | Live view (plug-in allowed) : Internet Explorer 11 Live view (plug-in free) : Chrome 57.0 +, Firefox 52.0 + Local service : Chrome 57.0+, Firefox 52.0 + |

Interface

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|-------------------------|---|
| Alarm Output | 2, alarm output (alarm response actions configurable) |
| Alarm Action | Relay output/Smart capture/FTP upload/Email linkage |
| Communication Interface | 1, RJ45 10 M/100 M Self-adaptive Ethernet interface. 1, RS-485 interface (half duplex) |

| General | |
|------------------------------|---|
| Web Client Language | 32 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) |
| Power Supply | 12 VDC, Max. 5 W PoE (802.3af, class 2) |
| Working Temperature/Humidity | Accurate Temperature Measurement: -20 °C~60 °C, < 90% RH Normal Operation: -40 °C~70 °C, < 90% RH |
| Protection Level | IP67 Standard |
| Dimensions | 56 mm × 38.9 mm × 111.2 mm (2.20" × 1.53" × 4.38") |
| Weight | Approx. 335 g (0.74 lb) |
| Approval | |
| EMC | CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN50130-4: 2011+A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 7) KC (KSC 9832:2023; KSC 9835:2019) |
| Safety | CB: IEC 62368-1: 2014+A11; CE-LVD: EN 62368-1: 2014/A11: 2017; LOA: SANS/IEC 60950-1 |
| Environment | CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation(EC) No 1907/2006 |
| Protection | IP67: IEC 60529-2013 |

▪ Range Table

**The table is only for reference and the performance may vary according to different environment.*

| Temperature Measurement (Object: 0.2 × 0.2 m) | Temperature Measurement (Object: 0.5 × 0.5 m) |
|---|---|
| 7 m | 17.5 m |

▪ Typical Application

HIKMICRO products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

No products could be used under HYDROGEN FLUORIDE environment. This model has No Specific PROTECTION.

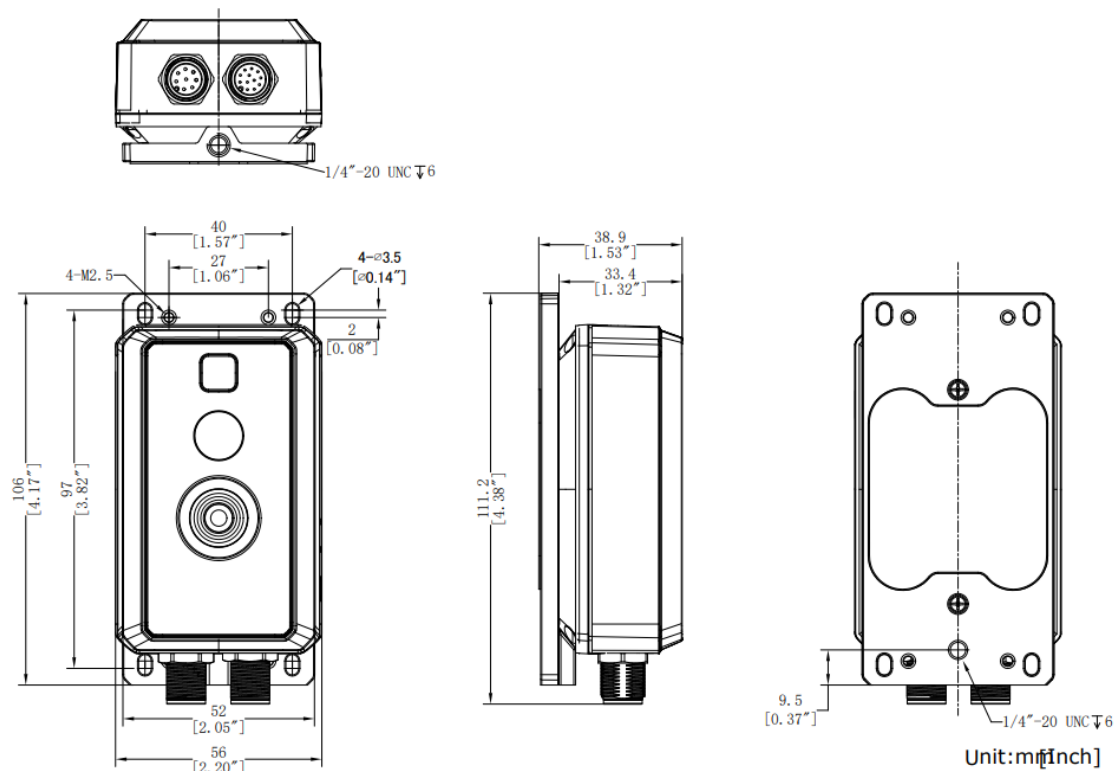
| Level | Description |
|----------------------|--|
| Top-level Protection | HIKMICRO products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Usually it is used in salt-spray and sulfur dioxide (with a concentration volume ratio of less than 0.67%) |

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|------------------------|---|
| | environment, such as chemical plants and coastal lines. |
| Moderate Protection | HIKMICRO products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain. |
| No Specific Protection | HIKMICRO products at this level are equipped for use in areas where no specific anti-corrosion protection is needed. |

▪ Available Model

HM-TD3028T-2/Q(B)

▪ Dimension



▪ Accessory

▪ Optional

DS-2924ZJ
Cube Camera PT
Bracket



▪ 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.

