# HM-TX3840-10/G0/T1
# Thermal TandemVu Camera






HIKMICRO HM-TX3840-10/G0/T1 Thermal TandemVu Camera is integrated by one bi-spectrum bullet camera offering perimeter protection and one optical PTZ camera smartly tracking moving targets to provide details. Thermal TandemVu camera is popularly applied in infrastructure such as airports, prisons, railway, city streets, campus, etc., in which smart tracking and perimeter protection are needed.

- 384×288 resolution thermal image, high sensitivity sensor, adjustable contrast
- Thermal image processing: Adaptive AGC, DDE, 3D DNR, NETD < 25 mK (@25 °C,F#=1.0)
- High quality imaging with 4MP optical PTZ and 40X optical zoom
- Multi-lens synergy within integrated design provide easy deployment
- Built-in speakers to provide audible alarms and LED to provide whitelight supplement

## ▪ Specification

| | |
|---|---|
| **Illuminator** | |
| Light Supplement | Up to 250m whitelight supplement |
| **Smart Function** | |
| VCA | 4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8 VCA rules in total. |
| **System Function** | |
| Click Linkage | One-Touch automatically calibration |
| Tracking Mode | Manual/Auto |
| Event Tracking | Intrusion Detection, Line Crossing Detection |
| **Bullet Camera- Thermal Module** | |
| Image Sensor | Vanadium Oxide Uncooled Focal Plane Arrays |
| Resolution | 384 x 288 |
| Pixel Pitch | 12 μm |
| Spectral Range | 8 μm to 14 μm |
| NETD (Noise Equivalent Temperature Difference) | < 25 mK (25°C, F1.0) |
| Focal Length | 9.7 mm |
| IFOV | 1.2 mrad |
| Field of View | 28.1° × 21.5° (H × V) |
| Min. Focusing Distance | 1.3 m |
| Aperture | F1.0 |
| Digital Zoom | x2, x4, x8 |
| **Bullet Camera- Optical Module** | |
| Image Sensor | 1/1.8"CMOS |
| Resolution | 2688 × 1520 |
| Focal Length | 6.4 mm |
| Field of View | 51.7° × 28.2° (H × V) |
| Min. Illumination | Color: 0.005 Lux @ (F1.5, AGC ON) |
| Aperture | F1.5 |
| **Bullet Camera- General** | |
| Main Stream | Thermal:<br>25 fps (1280 × 720, 704 × 576, 640 × 512, 320 × 240)<br>Optical:<br>50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>60Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) |
| Sub-stream | Thermal:<br>25 fps (704 × 576, 640 × 512, 320 × 240)<br>Optical:<br>50 Hz: 25 fps (704 × 576, 352 × 288)<br>60 Hz: 30 fps (704 × 480, 352 × 240) |
| Video Compression | Main Stream: H.265/H.264<br>Sub-Stream: H.265/H.264/MJPEG |

| | |
|---|---|
| Audio Compression | G.711ulaw/G.711alaw/G.726/MP2L2/AAC |
| Alarm Input | 2-ch inputs (0-5 VDC) |
| Alarm Output | 2-ch relay outputs, alarm response actions configurable |
| Audio Input | 1-ch, Line input: 2 - 2.4 V [p-p], output impedance: 1 KΩ ± 10% |
| Audio Output | 1-ch, Linear Level; Impedance: 600 Ω |
| Communication Interface | 1, RJ45 10 M/100 M /1000M Self-adaptive Ethernet interface.<br>1, RS-485 interface<br>1, BNC 1.0 V [p-p]/75 Ω video output |
| **Optical Speed Dome** | |
| Image Sensor | 1/1.8" progressive scan CMOS |
| Resolution | 2688 x 1520 |
| Min. Illumination | Color: 0.0003 Lux @(F1.3, AGC ON), 0 Lux with light on |
| Focal Length | 6 - 240mm, 40 × optical zoom |
| Field of View | 59°(H)*34.16°(V)-1.77°(H)*1.0°(V) |
| Digital Zoom | ×2, ×4, ×8, ×16 |
| Aperture Range | F1.3-F4.6 |
| Focus Mode | Auto/Semi-auto/Manual |
| WDR | 120 dB |
| Optical Defog | Yes |
| Image Enhancement | 3D DNR, EIS, HLC/BLC |
| Pan Speed | configurable from 1° to 160°/s |
| Tilt Speed | configurable from 1°/s to 90°/s |
| Main Stream | 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) |
| Sub-Stream | 60 Hz: 30 fps (704 × 480, 352 × 240, 176 × 120)<br>50 Hz: 25 fps (704 × 576, 352 × 288, 176 × 144) |
| Video Compression | Main Stream: H.265+/H.265/H.264+/H.264<br>Sub-Stream: H.265/H.264/MJPEG |
| **Network** | |
| Protocols | IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE |
| Network Storage | MicroSD/SDHC/SDXC card (up to 256 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) |
| API | ISAPI, HIKVISION SDK, and third-party management platform, Open Network Video Interface,ONVIF (Profile S, Profile G) |
| 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<br>Live view (plug-in free) : Chrome 57.0 +, Firefox 52.0 +<br>Local service : Chrome 57.0 +, Firefox 52.0 + |

| General | |
|---|---|
| Power Supply | DC36V,AC24V,PoE++ |
| Power Consumption | Max. 90W |
| Working Temperature/Humidity | -40 °C to +70 °C (- 40 °F to 149 °F),<br>Humidity: 90% or less |
| Protection Level | IP67 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection |
| Dimensions | 458.7mm x 266.6mm x 290mm |
| Weight | 13.5kg |
| **Detection Range Table** | |
| VCA Range for Humans | 100m |
| VCA Range for Vehicles | 300m |

## ▪ Range Table

| VCA Range (Vehicles: 1.4 × 4.0 m) | VCA Range (Humans: 1.8 × 0.5 m) |
|---|---|
| 300m | 100m |

## ▪ DORI

* The table is only for reference and the performance may vary according to different environment.
* The optimal human detection, recognition, and identification distances are calculated according to Johnson's Criteria.

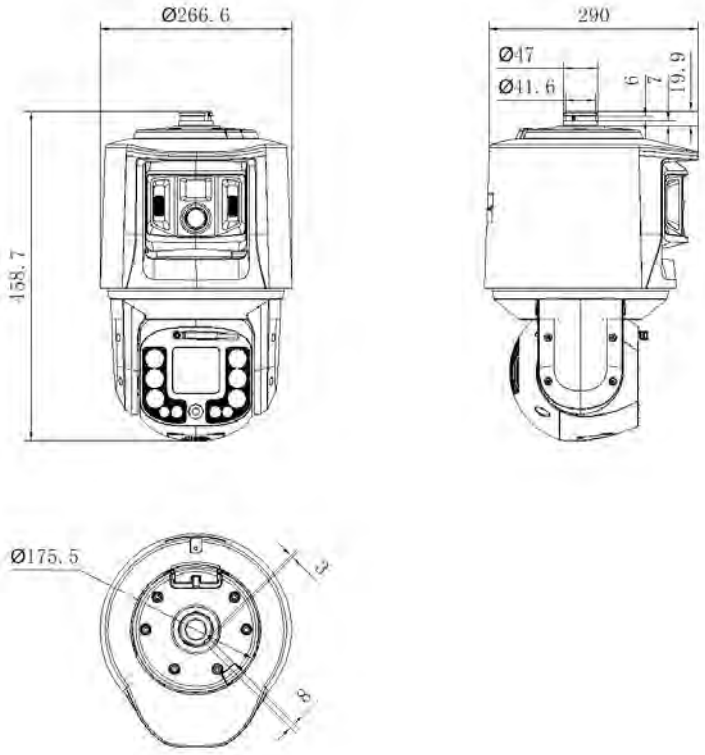
Detection Range: In order to distinguish an object from the background, the object must be covered by 1.5 or more pixels.
Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the object must be covered by 6 or more pixels.
Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.

| Detection Range (Vehicles: 1.4 × 4.0 m) | Detection Range (Humans: 1.8 × 0.5 m) | Recognition Range (Vehicles: 1.4 × 4.0 m) | Recognition Range (Humans: 1.8 × 0.5 m) | Identification Range (Vehicles: 1.4 × 4.0 m) | Identification Range (Humans: 1.8 × 0.5 m) |
|---|---|---|---|---|---|
| 1278m | 417m | 319m | 104m | 160m | 52m |

## ▪ Available Model

HM-TX3840-10/G0/T1

## ▪Dimension




## ▪ Accessory

### ▪Optional

| DS-1603ZJ-P<br>Wall mount | DS-1668ZJ-P<br>Pendant Mount | DS-1668ZJ(20)-P<br>Pendant Mount | DS-1603ZJ-Pole-P<br>Vertical pole mount |
|---|---|---|---|
|  |  |  |  |

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HIKMICRO

Building A1, No. 299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou, Zhejiang

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