

## DS-2TD1217-6/QA Thermographic Network Turret Camera



Hikvision DS-2TD1217-6/QA Thermal & Optical Bi-spectrum Network Turret Camera supports video analysis for perimeter protection, and also temperature exception alarm for early fire prevention. With the deep learning algorithm, it can realize high precision VCA detection and real-time alarm. These camera series can be widely applied to villas, communities, parking lots, warehouses, construction sites, waste incineration plants, manufacturing workshops, etc.

- 160 × 120 resolution, 17  $\mu$ m, VOx UFPA, NETD < 40 mK (25 °C, F# = 1.1)
- High accuracy temperature exception alarm, -20 °C to 150 °C (-4 °F to 302 °F)  $\pm$  8 °C ( $\pm$ 14.4 °F)
- Image processing technology: linear, histogram, self-adaptive thermal AGC mode, DDE, 3D DNR
- Support smoking detection algorithm
- Support sun-reflection filter
- High quality detector with 10 years guarantee

## ▪ Specification

| Thermal Module           |                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor             | Vanadium Oxide Uncooled Focal Plane Arrays                                                                                                                                  |
| Resolution               | 160 × 120                                                                                                                                                                   |
| Pixel Pitch              | 17 μm                                                                                                                                                                       |
| Spectral Range           | 8 μm to 14 μm                                                                                                                                                               |
| NETD                     | <40 mK (@ 25 °C, F# = 1.1)                                                                                                                                                  |
| Focal Length             | 6.2 mm                                                                                                                                                                      |
| IFOV                     | 2.74 mrad                                                                                                                                                                   |
| Field of View            | 25.0° × 18.7° (H × V)                                                                                                                                                       |
| Min. Focusing Distance   | 0.6 m                                                                                                                                                                       |
| Aperture                 | F1.1                                                                                                                                                                        |
| Digital Zoom             | × 2, × 4                                                                                                                                                                    |
| Optical Module           |                                                                                                                                                                             |
| Image Sensor             | 1/2.7" Progressive Scan CMOS                                                                                                                                                |
| Resolution               | 2688 × 1520                                                                                                                                                                 |
| Min. Illumination        | 0.0089Lux @(F1.6,AGC ON) ,0 Lux with IR                                                                                                                                     |
| Shutter Speed            | 1 s to 1/100,000 s                                                                                                                                                          |
| Focal Length             | 8 mm                                                                                                                                                                        |
| Field of View            | 39.42° × 22.14°(H × V)                                                                                                                                                      |
| Aperture (Range)         | F1.6                                                                                                                                                                        |
| WDR                      | 120 dB                                                                                                                                                                      |
| Image Effect             |                                                                                                                                                                             |
| Target Coloration        | Yes. Supported in white hot and black hot mode.                                                                                                                             |
| Illuminator              |                                                                                                                                                                             |
| IR Distance              | Up to 15 m                                                                                                                                                                  |
| IR Intensity and Angle   | Automatically adjusted                                                                                                                                                      |
| Audible and Visual Alarm |                                                                                                                                                                             |
| White Light Range        | Up to 30 m                                                                                                                                                                  |
| Visual Alarm             | Yes. White light alarm with adjustable flashing frequencies                                                                                                                 |
| Audio alarm              | Yes, for two types of audible alarm (VCA, Temperature)2<br>preset voice alerts (one for each)<br>6 importable user-defined voice alerts (4 options shared in the two types) |
| Smart Function           |                                                                                                                                                                             |
| VCA                      | 4 VCA rule types (line crossing, intrusion, region entrance, and region exiting),<br>up to 8 VCA rules in total.                                                            |
| Temperature Measurement  | 3 temperature measurement rule types, 21 rules in total (10 points, 10 areas,<br>and 1 line)                                                                                |
| Temperature Range        | - 20 °C to 150 °C (- 4 °F to 302 °F)                                                                                                                                        |
| Temperature Accuracy     | ± 8 °C (± 14.4 °F)                                                                                                                                                          |
| General Function         | Fire detection, smoking detection, sun-reflection filter,                                                                                                                   |

| Video and Audio         |                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main Stream             | Thermal:<br>25 fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288, 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, 352 × 288, 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.722.1/G.711ulaw/G.711alaw/MP2L2/G.726/PCM                                                                                                                                                            |
| 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, TLS                                                                    |
| Network Storage         | MicroSD/SDHC/SDXC card (up to 256 G) local storage, NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)                                                                                              |
| API                     | ISAPI, HIKVISION SDK, ISUP, and third-party management platform, Open Network Video Interface, ONVIF (Profile S, Profile G, Profile T)                                                                 |
| Simultaneous Live View  | Up to 20 channels                                                                                                                                                                                      |
| User/Host level         | Up to 32 users, 3 levels: Administrator, Operator, User                                                                                                                                                |
| Security                | User authentication (ID and PW), 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 +                                        |
| Interface               |                                                                                                                                                                                                        |
| Alarm Input             | 1, alarm input (0-5 VDC)                                                                                                                                                                               |
| Alarm Output            | 1, alarm output (alarm response actions configurable)                                                                                                                                                  |
| Alarm Action            | SD recording/Relay output/Smart capture/FTP upload/Email linkage                                                                                                                                       |
| Audio Input             | 1, 3.5 mm Mic in/Line in interface<br>Line input: 2 - 2.4 V [p-p], output impedance: 1 K $\Omega$ ± 10%                                                                                                |
| Audio Output            | Linear level, impedance: 600 $\Omega$                                                                                                                                                                  |
| Communication Interface | 1, RJ45 10 M/100 M Self-adaptive Ethernet interface.<br>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 $\pm$ 25%, $\phi$ 5.5 mm coaxial power plug<br>PoE (802.3af, class 3)                                                                                                                                                                                                                                                              |
| Power Consumption            | 12 VDC $\pm$ 25%: 0.5 A, Max 6 W<br>PoE (802.3af, class 3): 42.5 V to 57 V, 0.14 A to 0.22 A, Max 6.5 W                                                                                                                                                                                                                                   |
| Working Temperature/Humidity | Temperature: - 40 °C to 65 °C (- 40 °F to 149 °F)<br>Humidity: 95% or less                                                                                                                                                                                                                                                                |
| Protection Level             | IP67 Standard<br>TVS 6000V lightning protection, surge protection, voltage transient protection                                                                                                                                                                                                                                           |
| Dimensions                   | 138.3 mm $\times$ 138.3 mm $\times$ 123.1 mm (5.45" $\times$ 5.45" $\times$ 4.85 ")                                                                                                                                                                                                                                                       |
| Weight                       | 940 g (2.07 lb)                                                                                                                                                                                                                                                                                                                           |

## ▪ Range Table

| Detection Range<br>(Vehicles: 1.4 $\times$ 4.0 m) | Detection Range<br>(Humans: 1.8 $\times$ 0.5 m) | Recognition Range<br>(Vehicles: 1.4 $\times$ 4.0 m) | Recognition Range<br>(Humans: 1.8 $\times$ 0.5 m) | Identification Range<br>(Vehicles: 1.4 $\times$ 4.0 m) | Identification Range<br>(Humans: 1.8 $\times$ 0.5 m) | Smoking Detection |
|---------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------|------------------------------------------------------|-------------------|
| 559 m                                             | 182 m                                           | 140 m                                               | 46 m                                              | 70 m                                                   | 23 m                                                 | 6.2m              |

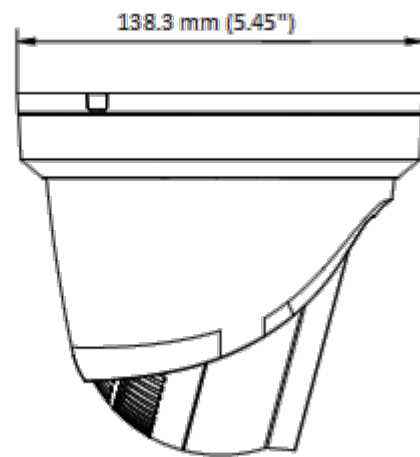
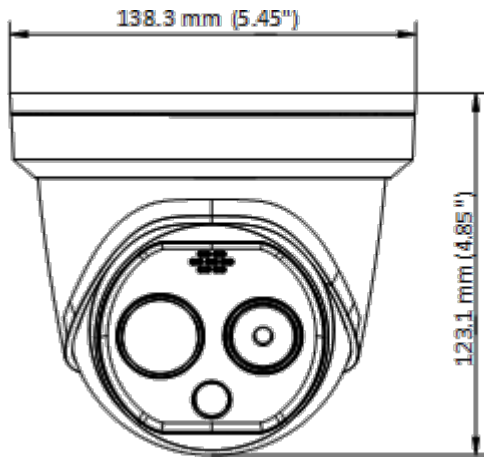
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| VCA Range<br>(Vehicles: 1.4 $\times$ 4.0 m) | VCA Range<br>(Humans: 1.8 $\times$ 0.5 m) | Temperature Measurement<br>(Object: 0.2 $\times$ 0.2 m) | Temperature Measurement<br>(Object: 1 $\times$ 1 m) | Fire Detection<br>(Object: 0.2 $\times$ 0.2m) |
|---------------------------------------------|-------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------|
| 85 m                                        | 30 m                                      | 13.6 m                                                  | 68 m                                                | 62 m                                          |

## ▪ Available Model

DS-2TD1217-6/QA

## ▪ Dimension



## ▪ Accessory

### ▪ Optional

| DS-1273ZJ-140<br>Wall mount                                                         | DS-1273ZJ-140B<br>Wall mount                                                        | DS-1271ZJ-140<br>Pendant Mount                                                      | DS-1275ZJ-SUS<br>Vertical pole mount                                                  | DS-1276ZJ-SUS<br>Corner mount                                                         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| DS-1280ZJ-DM21<br>Junction box                                                      | DS-1273ZJ-140(BLACK)<br>Wall mount                                                  |                                                                                     |                                                                                       |                                                                                       |
|  |  |                                                                                     |                                                                                       |                                                                                       |

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