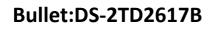
# **Temperature Screening** Thermal Camera Installation & Configuration Guide







Turret:DS-2TD1217B

Temperature measurement range:  $30-45^{\circ}$ C Working temperature:  $10-35^{\circ}$ C Accuracy:  $\pm 0.5^{\circ}$ C Resolution:  $160 \times 120$ 

HIKVISION

## Installation-Tripod quick temporary deployment





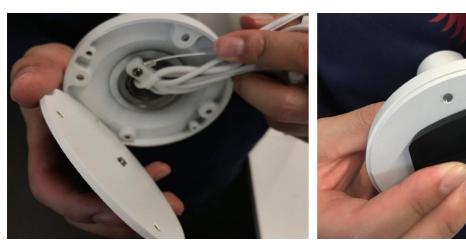
Tripod Adapter For Turret

Tripod Adapter for Bullet





A. Tripod connector fixed on the adapter



B. Fix the adapter on the camera



C. Install the camera on the tripod

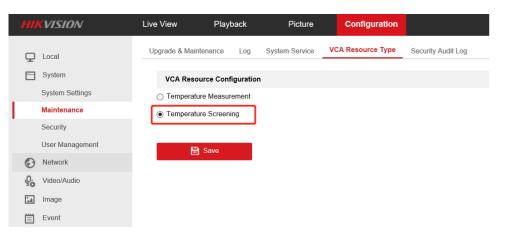


| Installation Parameter Recommended |                                    |                 |  |  |  |
|------------------------------------|------------------------------------|-----------------|--|--|--|
| Model                              | Distance<br>(between human&camera) |                 |  |  |  |
| DS-2TD1217B-3/PA                   | 0.0.1.5.                           |                 |  |  |  |
| DS-2TD2617B-3/PA                   | - 0.8-1.5m                         |                 |  |  |  |
| DS-2TD1217B-6/PA                   | 1 5 2                              |                 |  |  |  |
| DS-2TD2617B-6/PA                   | - 1.5-3m                           |                 |  |  |  |
| Model                              | Height                             | Elevation angle |  |  |  |
| DS-2TD1217B-3/PA                   |                                    | 1200            |  |  |  |
| DS-2TD2617B-3/PA                   |                                    |                 |  |  |  |
| DS-2TD1217B-6/PA                   | 1.5m                               | ≤20°            |  |  |  |
| DS-2TD2617B-6/PA                   |                                    |                 |  |  |  |

D. Installation complete



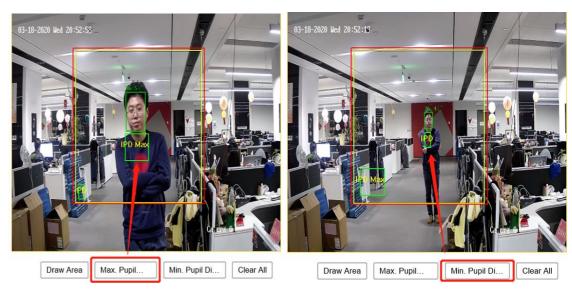
**1**.Select **Temperature Screening** as VCA Resource Type.



**2**. Go to Local Configuration interface, enable and save the following settings:

| HIN | VISION                | Live View | Playback           | Picture                    | Configura | tion        |        |
|-----|-----------------------|-----------|--------------------|----------------------------|-----------|-------------|--------|
|     |                       |           |                    |                            |           |             |        |
| ₽   | Local                 | Live Vie  | w Parameters       |                            |           |             |        |
|     | System                | Protoc    | bl                 | • TCP                      | O UDP     | ○ MULTICAST | ⊖ HTTP |
| Ð   | Network               | Play P    | erformance         | ⊖ Shortest Delay           | Balanced  | ○ Fluent    |        |
| .Q. | Video/Audio           | Rules     |                    | <ul> <li>Enable</li> </ul> | O Disable |             |        |
| 1   | Image                 | Display   | POS Information    | ○ Enable                   | Disable   |             |        |
| Ë   | Event                 | Auto S    | tart Live View     | ⊖ Yes                      | No        |             |        |
| ₿   | Storage               | Image     | Format             | JPEG                       |           |             |        |
| 6   | Temperature Screening | Display   | Rules Info. on Ca  | .   Yes                    | 🔿 No      |             |        |
|     |                       | Display   | Temperature Info.  | Yes                        | ⊖ No      |             |        |
|     |                       | Display   | r Temperature Info | .   Yes                    | ⊖ No      |             |        |

Set Alarm Temp. and Pre-alarm Temp. Press Draw Area to adjust face detection region. Click Max. Pupil Distance and Min. Pupil Distance to draw width filter frame, Max and Min distance refer to camera detection distance.



#### 5. Configure Camera 02 (Thermal) Settings.

| Basic Settings | Temperature Screening Configuration | Linkage Method |                             |
|----------------|-------------------------------------|----------------|-----------------------------|
| Channel No.    | Camera 02                           | ~              |                             |
| 07-18-         | 2020 Wed 20:53:41                   | •              | Black Body Parameters       |
| 03-10-         | 2020 WEU 20.33.11                   |                | Enable Blackbody Correction |

**3**. Go to Temperature Screening **Basic Settings.** Configure and save the following settings:

| НП           | <b>KVISION</b>        | Live View                      | Playback                              | Picture            | Configuration  |  |  |  |
|--------------|-----------------------|--------------------------------|---------------------------------------|--------------------|----------------|--|--|--|
| Ţ            | Local                 | Basic Settings                 | Temperature Scree                     | ning Configuration | Linkage Method |  |  |  |
|              | System                | Channel No.                    | Camera                                | a 01               | $\checkmark$   |  |  |  |
| Ð            | Network               | Enable Temperature Measurement |                                       |                    |                |  |  |  |
| <u>.0</u> .  | Video/Audio           | Enable Color-Temperature       |                                       |                    |                |  |  |  |
| 1            | Image                 | 🗹 Display Tem                  | ☑ Display Temperature Info. on Stream |                    |                |  |  |  |
| 圁            | Event                 | Add Original                   | Add Original Data on Capture          |                    |                |  |  |  |
| B            | Storage               | Add Original                   | ☐ Add Original Data on Stream         |                    |                |  |  |  |
| <u>ل</u>     | Temperature Screening | Data Refresh In                | iterval 3                             | Degree Celsius(°C) |                |  |  |  |
|              | Basic Settings        | Unit                           | Degree                                |                    |                |  |  |  |
| Face Capture |                       | Temperature R                  | ange 30.0~45                          | 30.0~45.0          |                |  |  |  |
|              |                       | Version                        | V2.0.8b                               | uild20200429       |                |  |  |  |
|              |                       | Target Ther                    | mographic Paramete                    | rs                 |                |  |  |  |
|              |                       | Emissivity                     | 0.98                                  |                    |                |  |  |  |
|              |                       | Distance Mode                  | Self-Ad                               | aption             | $\checkmark$   |  |  |  |
|              |                       | Distance                       | 2                                     |                    | m              |  |  |  |
|              |                       |                                | Save                                  |                    |                |  |  |  |

**Emissivity**: For human skin, this value is normally set as 0.98.

**Distance Mode**: Select **Self-Adaption** or **Fixed Distance** as distance mode during measurement.

**Distance:** The actual distance between the camera and human.

#### 4. Configure Camera 01 (Optical) Settings.

| <b>HIKVISION</b> | Live View         | Playback                  | Picture          | Configuration  |                         |           |     |
|------------------|-------------------|---------------------------|------------------|----------------|-------------------------|-----------|-----|
| 🖵 Local          | Basic Setting     | S Temperature Screeni     | ng Configuration | Linkage Method |                         |           |     |
| E System         | Channel N         | o. Camera                 | a 01             | ~              |                         |           |     |
| Network          | 🗹 Enable          | Face Detection            |                  |                |                         |           |     |
| Video/Audio      | Display           | / Temperature             |                  |                |                         |           |     |
| 🔝 Image          | Upload            | I Captured Face Image     |                  |                |                         |           |     |
| Event            | Display           | Face Temperature Position | on               |                |                         |           |     |
| Storage          |                   |                           |                  | Opera          | Configuration           | Targeting | ~   |
| Temperature \$   | creening P3-M=3/2 | 9 Wed 20:59:28            |                  | -/             | Face Detection Paramete | rs        |     |
| Basic Setting    | s                 |                           |                  | 1              | Min. Pupil Distance     | 40        | 0   |
| Face Capture     |                   |                           |                  |                | Max. Pupil Distance     | 312       | 0   |
|                  |                   |                           | - 14             |                | Generation Speed        |           | 0 5 |
|                  |                   |                           |                  |                | Sensitivity             |           | 0 5 |
|                  |                   |                           |                  |                | Alarm When Temperatur   |           | °C  |
|                  | u                 |                           | 1 4 m T          |                | Pre-Alarm Temperature   | 37        | °C  |
|                  |                   |                           |                  |                |                         |           |     |
|                  |                   |                           |                  |                |                         |           |     |
|                  |                   |                           |                  |                |                         |           |     |
|                  |                   |                           |                  |                |                         |           |     |
|                  |                   | Draw Area Max. Pupil      | Min. Pupil       | Di Clear All   |                         |           |     |
|                  |                   | 🖹 Save                    |                  |                |                         |           |     |

Check Enable Face Detection and Display Temperature. Check Upload Captured Face Image and Display Face Temperature Position if needed.



Uncheck Enable Blackbody Correction If no blackbody is used. Check Enable of Body Temperature Compensation and keep parameters as default.

#### 6. Configure Face Capture.

| HII        | VISION                | Live View         | Playback               | Picture           | Configuration                |
|------------|-----------------------|-------------------|------------------------|-------------------|------------------------------|
| Ţ          | Local                 | Overlay & Capture | Shield Region          | Advanced Conf     | iguration                    |
|            | System                | Face Capture Ve   | v1.1.0b                | ouild20200214     |                              |
| Ð          | Network               | Capture Para      | meters                 |                   |                              |
| <u>0</u> . | Video/Audio           | Vpload Fea        | ature                  |                   |                              |
| <u>*</u>   | Image                 | Best Shot         |                        |                   |                              |
| Ë          | Event                 | Capture Times     | ; ()                   |                   | 1                            |
| ₿          | Storage               | Capture Thres     | hold —                 | 0                 | 20                           |
| 6          | Temperature Screening | Quick Shot        |                        |                   |                              |
|            | Basic Settings        | Quick Shot Th     | reshold                | 0                 | 70                           |
|            | Face Capture          | Max. Capture      | Interval 🔿             |                   | <b>5</b> s                   |
|            |                       | Capture Times     | s O Un                 | limited           | Limited 1                    |
|            |                       | E Facial Post     | ure Filter             |                   |                              |
|            |                       | Rotational Ang    | le-Left                |                   | 0 70                         |
|            |                       | Rotational Ang    | le-Right               |                   | 70                           |
|            |                       | Deflection Ang    | le-Upper               |                   | 50                           |
|            |                       | Deflection Ang    | le-Lower               |                   | 50                           |
|            |                       | If Face Posture   | e Filter is enabled, t | he camera may not | capture the qualified image. |
|            |                       | No Wearing M      | lask Linkage           |                   |                              |
|            |                       | 🗌 Normal I        | Linkage                |                   |                              |
|            |                       | Audible V         | Varning                |                   |                              |
|            |                       |                   |                        |                   |                              |

Check **Upload Feature** to upload mask detection info. to IVMS-4200 event details and AI Dashboard interface.

**Best Shot**: If a face image score never reaches threshold and no abnormal temperature is detected, no face capture will be uploaded.

**Quick Shot**: At least one face capture will be uploaded even if it is a low-quality face image.

It is recommended to use **Quick Shot** mode for better response performance, and use **Best Shot** if high quality image is required for comparing.

The **No Wearing Mask Linkage** is disabled by default. Check **Audible Warning** (Devices with /PA) as needed.



The environment would easily influence the performance of thermal camera. Therefore, it is required to be used in a stable indoor environment without wind, and the ambient temperature should be consistent. Here's some advice:

- 1. Set up a one-way screening zone, and ensure that camera can clearly see the face of person whose skinsurface temperature is being measured.
- 2. Avoid backgrounds that are too crowded or bright.
- 3. 90 minutes after turn on the camera, then go skin-surface temperature measurement, because the camera itself needs to be steady first.
- 4. If there is a large gap between indoor and outdoor temperature, it is highly suggested to wait more than 5 minutes then measure skin-surface temperature of whom just got in.
- 5. Follow the guidance of required temperature measurement distance.

### See far, go further