

# Hikvision Temperature Screening

Installation & Configuration Notes



# HIKVISION Temperature Screening

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# Installation Notes


## Recommended Environments

### **Most important tips before determining the installation scenario:**

- Indoor installation only (10°C - 35°C).
- Follow installation parameters for related products (i.e device height and detection distance).
- Ensure preheating period of device is observed.
- One-way screening zone to see clear face image, recommended people to pass one by one.
- Stable and sufficient lighting conditions.
- Avoid busy background and no other high temperature source in view of camera.

# Installation Notes

## Recommended Installation Parameters

| Thermal resolution                 | Thermal focal length | Recommended distance (between human & camera) | Installation height | Elevation angle requirements | Recommended Installation method   |        |  |  |
|------------------------------------|----------------------|---|---------------------|------------------------------|---|--------|--|--|
| DS-2TD1217B-3/P<br>DS-2TD2617B-3/P | 3mm                  | 0.8-1.5m                                      | 1.5m                | ≤15°                         |  | Tripod |  |  |
| DS-2TD1217B-6/P<br>DS-2TD2617B-6/P | 6mm                  | 1.5-3m  |                     |                              |   |        |  |  |
| DS-2TD2637B-10/P                   | 10mm                 | 2-7m  | 1.7-2.5m            |                              | Wall Mount/Tripod   |        |  |  |
| DS-2TD2637B-15/P                   | 15mm                 | 2.5-9m  |                     |                              |   |        |  |  |

# 2

## Configuration Guide of Turrets and Bullets

Steps (for versions after 5.5.26\_200330)

1. Select **Body Thermography** as VCA Resource Type.

The screenshot shows the Hikvision web interface. The top navigation bar includes 'Live View', 'Playback', 'Picture', and 'Configuration'. The 'Configuration' tab is selected. Below the navigation bar, there are links for 'Upgrade & Maintenance', 'Log', 'System Service', 'VCA Resource Type', and 'Security Audit Log'. The 'VCA Resource Configuration' section is displayed, with the 'Body Thermometry' radio button selected and highlighted by a red box. A red 'Save' button is located below the configuration options.

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

The screenshot shows the Hikvision web interface. The top navigation bar includes 'Live View', 'Playback', 'Picture', and 'Configuration'. The 'Configuration' tab is selected. Below the navigation bar, there are links for 'Upgrade & Maintenance', 'Log', 'System Service', 'VCA Resource Type', and 'Security Audit Log'. The 'Local Configuration' section is displayed, with the 'Local' tab selected in the left sidebar. The 'Live View Parameters' section is displayed, with several settings highlighted by red boxes: 'Rules' (Enable), 'Auto Start Live View' (No), 'Display Rules Info. on Ca...' (Yes), 'Display Temperature Info.' (Yes), and 'Display Temperature Info...' (Yes).

3. Go to Body Thermography **Basic Settings**. Configure and save the following settings:

The screenshot shows the Hikvision web interface for configuring a camera's body thermography settings. The interface is divided into a left sidebar with navigation options (Local, System, Network, Video/Audio, Image, Event, Storage, Body Thermometry) and a main content area. The 'Body Thermometry' section is expanded to show 'Basic Settings'. The settings are as follows:

- Channel No.: Camera 01
- Enable Temperature Measurement
- Enable Color-Temperature
- Display Temperature Info. on Stream
- Add Original Data on Capture
- Add Original Data on Stream
- Data Refresh Interval: 3 s
- Unit: Degree Celsius(°C)
- Temperature Range: 30.0~45.0
- Version: V2.0.7build20200210

Under the 'Target Thermometry Parameters' section:

- Emissivity: 0.98
- Distance: 8 m

A red 'Save' button is located at the bottom of the configuration page.

- Check **Enable Temperature Measurement** and **Display Temperature Info. on Stream**
- **Emissivity**: For human skin, this value is normally set as 0.98.
- **Distance**: The actual distance between the camera and measured object.

### 4. Go to **Body Thermography Configuration >> Camera 01 (Optical) Settings**

The screenshot displays the Hikvision configuration interface for Body Thermography. The 'Configuration' tab is active, and the 'Body Thermometry Configuration' section is selected. The 'Channel No.' is set to 'Camera 01'. Under 'Basic Settings', the following options are visible:

- Enable Face Detection
- Display Temperature
- Upload Captured Face Image
- Display Face Temperature Position

The 'Face Detection Parameters' section includes the following settings:

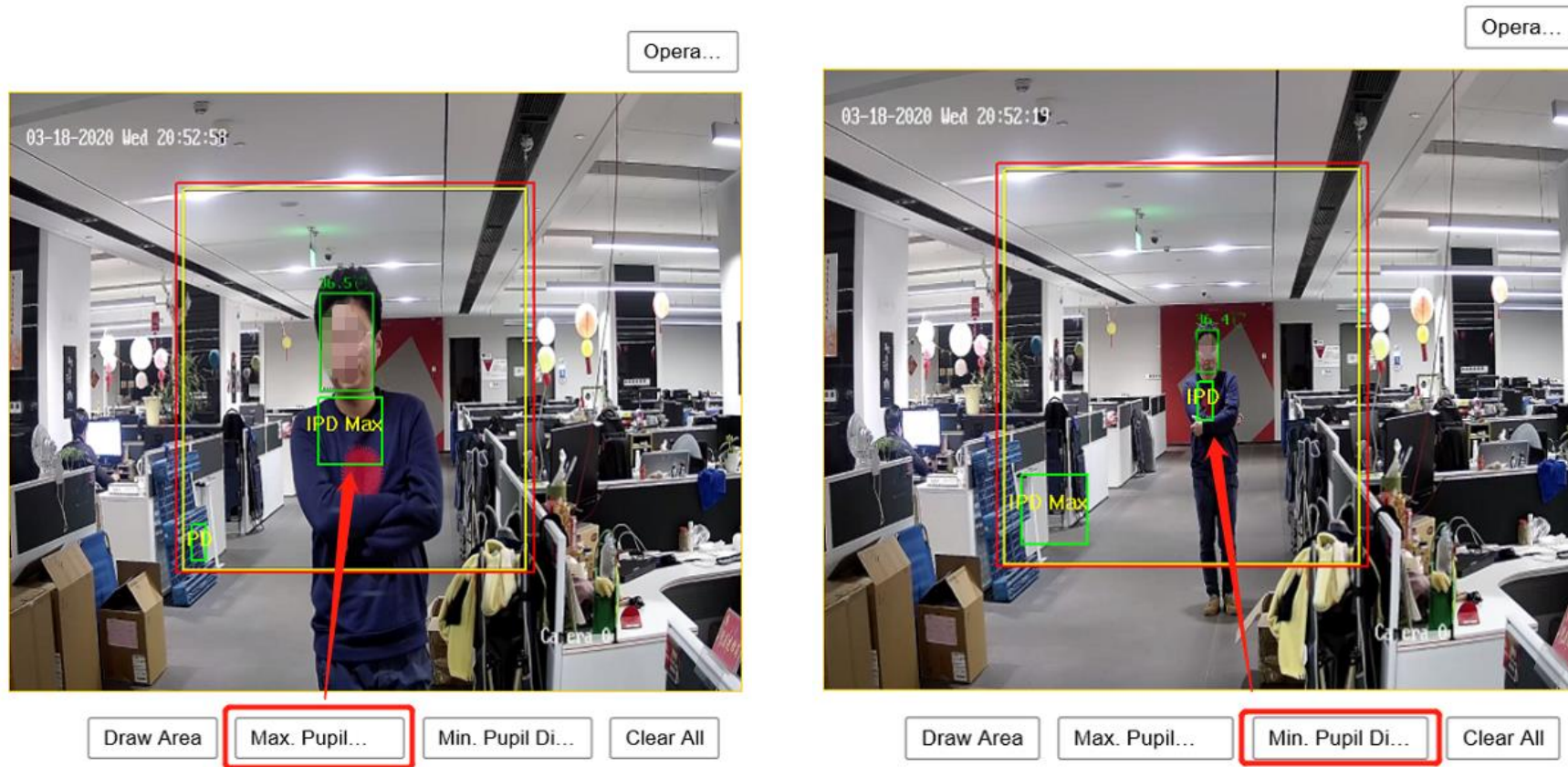
- Min. Pupil Distance: 40
- Max. Pupil Distance: 312
- Generation Speed: 5
- Sensitivity: 5
- Alarm When Temperature: 37.5 °C
- Pre-Alarm Temperature: 37 °C

A live video feed shows a person with a green face detection box and a red temperature overlay. Below the video are buttons for 'Draw Area', 'Max. Pupil...', 'Min. Pupil Di...', and 'Clear All'. A 'Save' button is at the bottom.

- Check **Enable Face Detection** and **Display Temperature**
- Check **Upload Captured Face Image** and **Display Face Temperature Position** by actual requirement.
- Set **Alarm Temp.** and **Pre-alarm Temp.** by actual requirement.
- Press **Draw Area** to adjust face detection region.

# Configuration Guide of Turrets and Bullets

## Steps



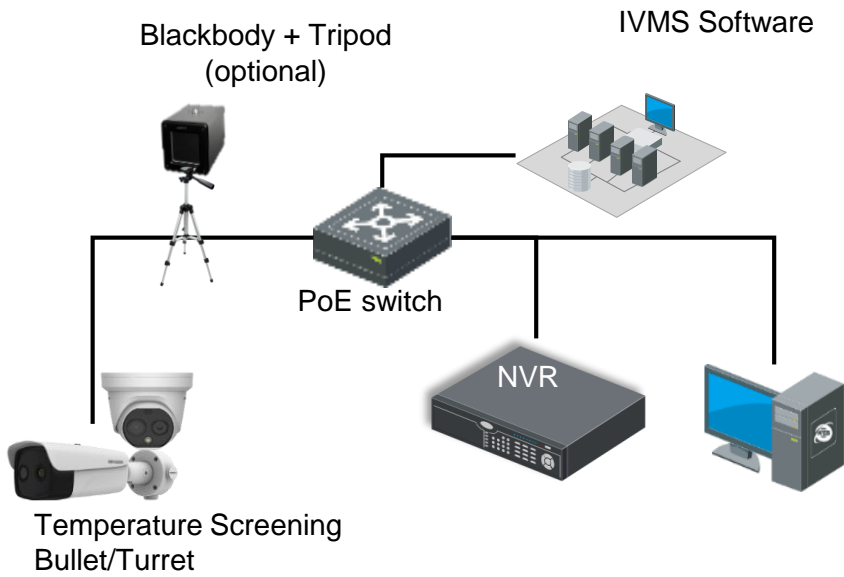
- Press **Max. Pupil Distance** and **Min. Pupil Distance** to draw width filter frame, thereby preventing false alarm caused by people's being too close or too far.
- This pupil filter is actually based on the **pixel width of target frame**.



# 3

## Frequently Asked Question

### Software Compatibility



| Thermal camera Version   | V5.5.26 build200330 |           |              |             |
|--|---------------------|-----------|--------------|-------------|
| Test equipment   | Deepin mind NVR     | iVMS-4200 | I series NVR | Hik Connect |
| Live view(Display Thermometry info)                              | √                   | √         | √            | √           |
| Playback (display Body Thermometry info)                         | √                   | √         | √            | √           |
| Body Thermometry Configuration (Recommend to use camera webpage) | N/A                 | √         | N/A          | N/A         |
| Receive Body Thermometry Alarm                                   | √                   | √         | √            | √           |

### Check the following things firstly:

1. Ensure **environment is suitable** (no wind, direct sunlight and no constant heat source in the FOV of camera).
2. Ensure **firmware has been upgraded to latest version.**
3. Ensure detection **distances and heights are within the specified range.**
4. After 60 minutes' preheating, **check environmental temperature of camera matches the ambient room temperature.**
5. Check **configuration parameters (distance, emissivity, manual calibration).**
6. Check **if multiple individuals produce similar inaccurate measurements.**