Body Temperature Measurement System Quick Installation& User Guide
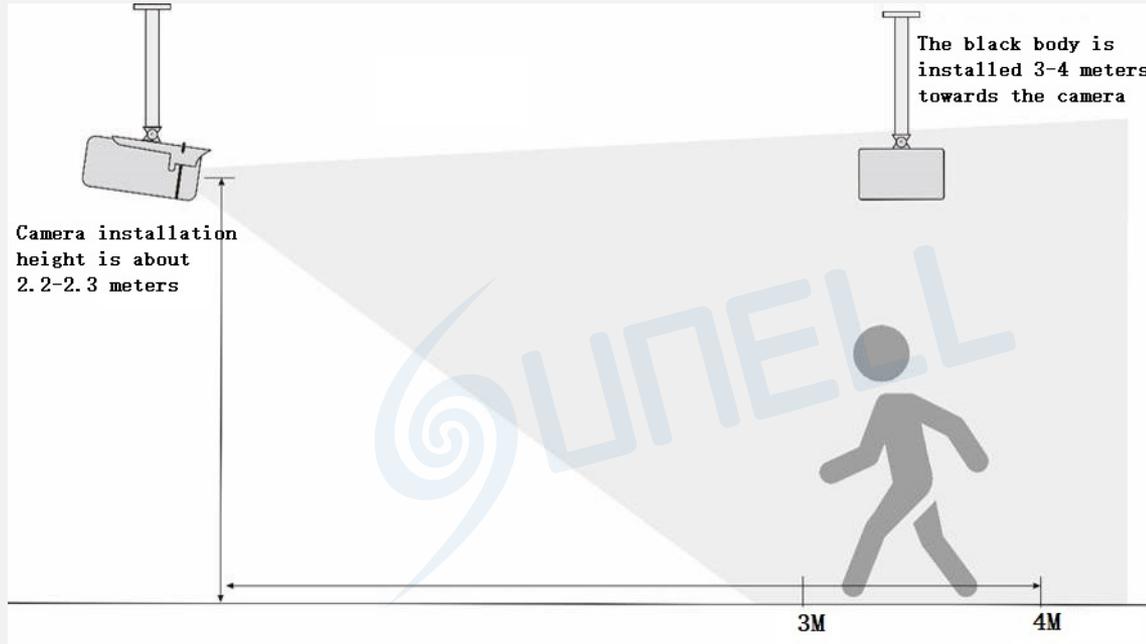
Installation
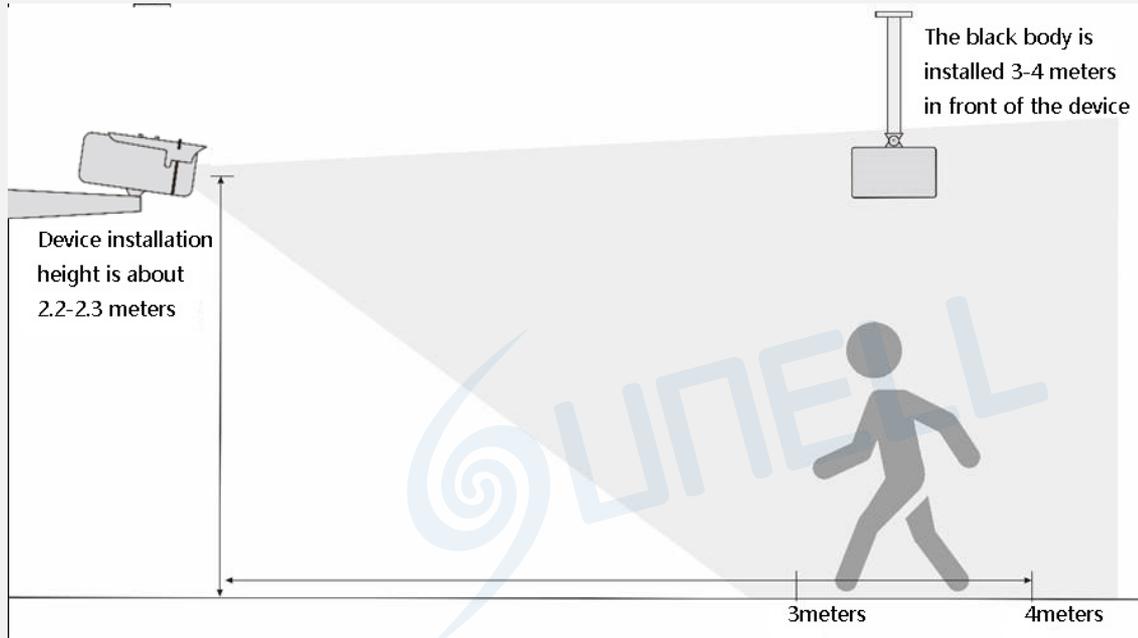

The black body is installed 3-4 meters towards the camera

Camera installation height is about 2.2-2.3 meters

3M 4M

Ceiling mount
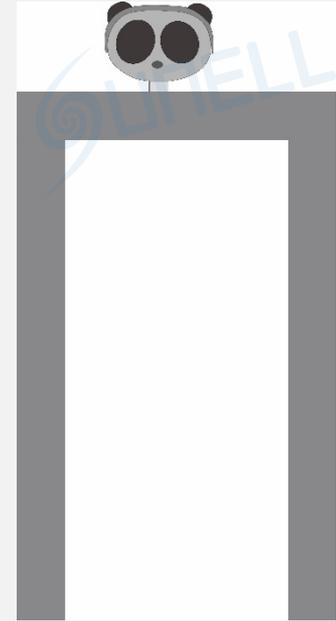
Installing on the security gate

Body Temperature Measurement System Installation

The black body is installed 3-4 meters in front of the device

Device installation height is about 2.2-2.3 meters
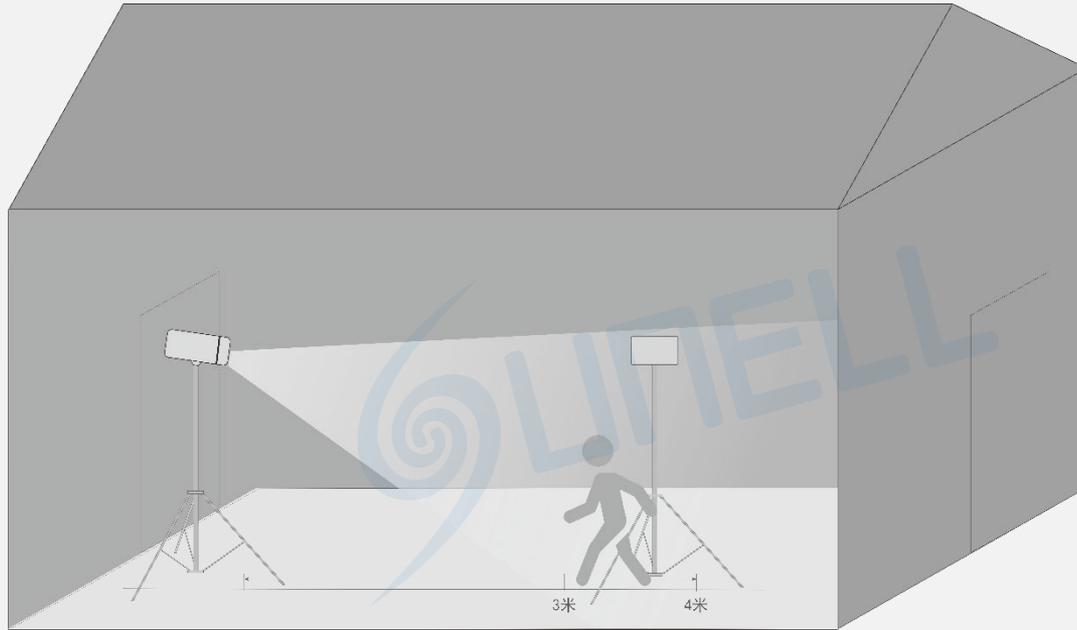
3meters   4meters

Wall mount
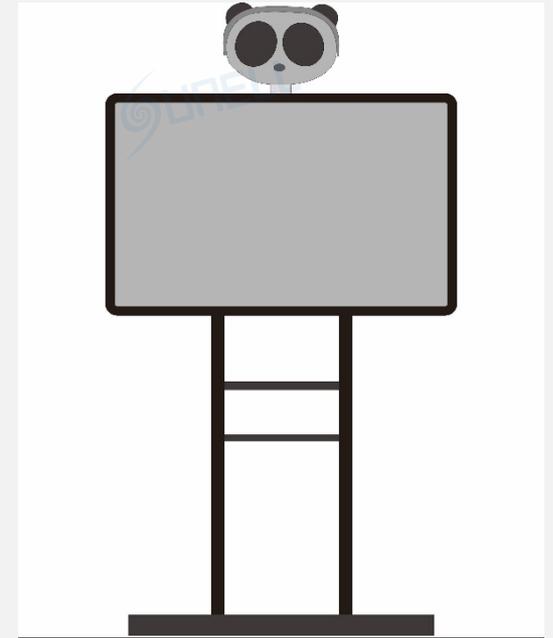
Pedestal mount

# Body Temperature Measurement System Installation

Outdoor Installation

Due to the big influence of an outdoor environment, please put up a tent as an enclosed conditions to ensure the accuracy.

Attentions in use

1. The camera can be accessed via the IE browser. Please set the parameters according to the actual scene.

2. The default IP is 192.168.0.121,and default account and password are both admin.

3. The camera is POE supported, it can be powered over a network cable with a POE switch.

4. The recommended installation environment is an airless aisle, please ensure the monitoring field is far away from any objects that could produce airflow, high temperature, reflection, please do not install opposite to a door, air conditioner or any place in sunshine. To ensure the accuracy and ensure the measure result closer to the real temperature, please install the camera indoor or in stable environment. The measurement might diverge from the actual temperature if the camera is installed in an open-air environment

5. Please put up a tent or build a closed environment to ensure the accuracy if outdoor installation is inescapable.

6. Due to the principle of infrared thermal imaging, it is necessary to perform body temperature measurement within a preset temperature measurement range, otherwise there will be deviations. The best horizontal distance from a face to the camera is 4m, recommended distance should be 3-5m.

7. Blackbody should be installed opposite to the camera (need to be installed where the camera can see it). The best horizontal distance is 4m, recommended 3-5m, the same as the face detection distance.

8. For camera, the vertical installation height is about 2m, to ensure the depression angle to a face is less than 25°.

9. Install the camera straightly to human face to have the best effect (ensure the side face angle is less than 35° on both side).

10. Please keep any objects that could cause reflect and high temperature away from the camera monitoring field.

Body Temperature Measurement System–Plugin installation
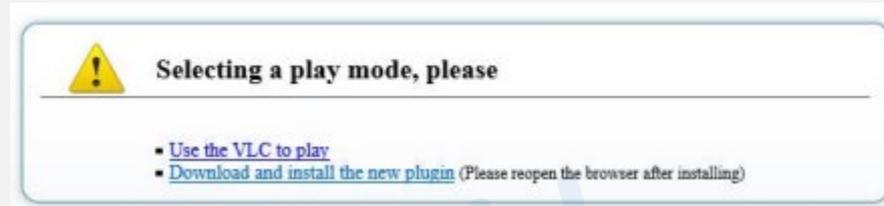
1. Enter the web page and download the new plugin first. If the new plugin is not installed correctly, you are not able to configure the parameter even if you can see the video.

2. Before installing the plugin, it is recommended to temporarily exit the anti-virus software and close the browser.

3. If you have already installed the old version plugin, please cover the previous plugin and install again.

Body Temperature Measurement System–Parameter configuration

1.Parameter configuration interface: Configuration(mark 1)->Human Thermometer(mark 2).

2.Three main configuration parameters，"parameter configure, thermal mapping, and thermal calibration"。

Body Temperature Measurement System–Face parameter configuration

1. Clicking "parameter configure" to enter the interface.
2. the face detection parameter configuration area in on the left side, and the temperature detection parameter configuration in below area.
3. Firstly, open the face detection and display detection area in the face detection function area.
4. Confidence Coefficient : the default value is recommended .
5. While being used, we can set up to 8 detection areas according to actual situation. The area ID is the number of detection area. Generally, we only need to set one detection area. Specially, when we need multiple areas, The setting method is to draws a frame by several dots in the video.

Body Temperature Measurement System–Face parameter configuration

6. Smallest pixel: the default value is recommended.

7. Image Matting Quality : It refers to the quality of the face image that needs to be uploaded, and different values can be selected according to the real situation.

8. Snapshot mode :

    a. Timing : Means to upload a certain number of images in a certain time .

    b. Optimal : Means uploading one or more images with good picture quality within 5 seconds .

9. Leave other options at their default values.

Body Temperature Measurement System– Detection parameters
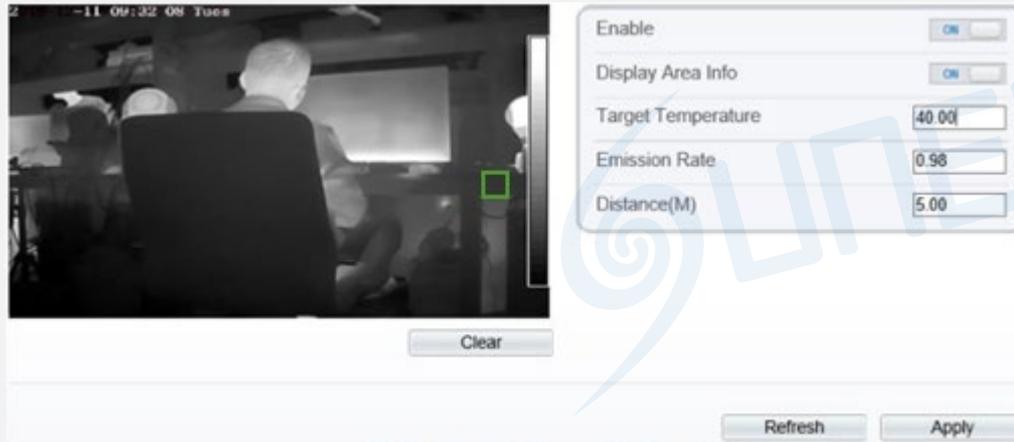

1. Enable: on.

2. Temperature Unit: Celsius is default.

3. Ambient temperature: only need to be set in extreme senario.

4. Cavity temperature : Keep defaults .

5. Correction coefficient : Keep defaults.

6. Mount Distance: the horizontal distance between the device and the target area, which is set according to the actual situation.

7. Clicking "Apply "to save settings.

Body Temperature Measurement System–Thermal mapping

1. The purpose is to overlap the visible image and thermal image, which directly determines the accuracy of temperature detection.
2. During mapping, three obvious points A, B and C can be found in thermal imaging, and the three points can be selected in turn by selecting the drop-down list "point 1, point 2 and point 3" and then the three points can be found in the visible image, they also can be selected in turn by selecting "point 1, point 2 and point 3". Finally, click "apply" in the lower right corner to save.
3. These three points is recommended to be selected by the largest triangle in the video, and the X and Y coordinates of any point cannot coincide. It is recommended to stand three people in the row on the left, middle and right until the face frame in the thermal image can accurately locate the face.

Body Temperature Measurement System–Thermal calibration

Enable	ON
Display Area Info	ON
Target Temperature	40.00
Emission Rate	0.98
Distance(M)	5.00

Clear

Refresh   Apply

Note: When using the black body, it necessary to configure here.
1. Firstly, enable this function.
2. Display Area Info: It means displaying the temperature of black body.

4. Target Temperature: temperature set on the black body (VS temperature).
5. Emission Rate: the thermal radiation emissivity of the black body. The default value is 0.98.
6. Distance : the distance from the black body to the device.
7. Draw a square to cover the radiation mission surface of black body in the thermal image.
8. Click "Apply "to save settings.

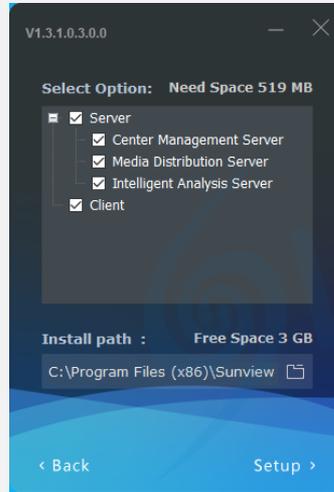# Body Temperature Measurement System–System installation

Figure1

Figure2

1. Right-click on the installation file and select ‘Install as administrator’. Then the installation window shown in Figure 1 will pop up.
2. Suniview has one-click installation and custom installation. After checking and agreeing to the terms of service, you can choose according to your needs.
3. It is recommended to choose a custom installation. It is not recommended to install it on the C drive..
4. In the case of single point deployment or only one server, three modules: the central management server, media distribution server, and intelligent analysis server can be installed and run on the same server. And the client can be installed on the same server.
5. When deploying on multiple servers in a large project, the media distribution server and intelligent analysis server can be installed on multiple servers. The central management server is installed on the central management server. Through the central management server module., media distribution server and intelligent analysis server will be managed.
6. click to start the installation. Then configure the system.

Body Temperature Measurement System–Client login

1. Both default account and password are admin.
2. Default IP :127.0.0.1, or enter the IP of central management server. If the central management server is deployed in another server, please input the server IP.
3. You can choose to remember the password or log in automatically according to the user's preference. Then press the login to enter the platform interface.

# Body Temperature Measurement System–Client login
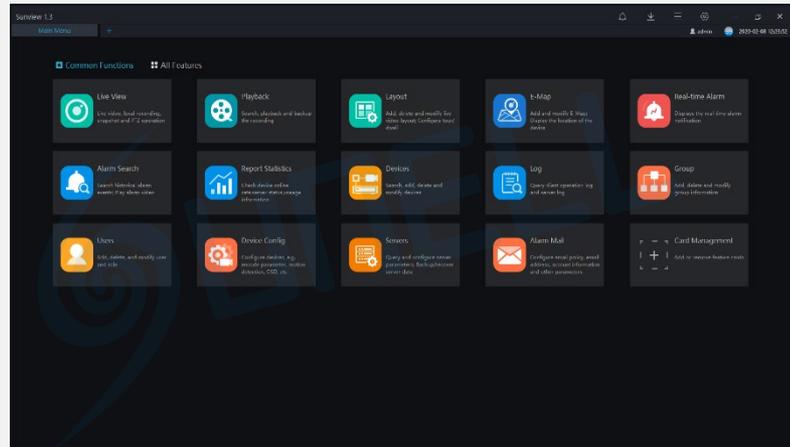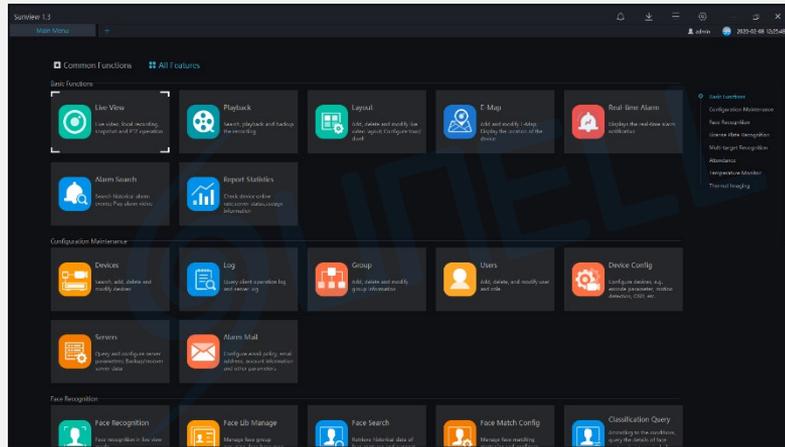
1. CMS is a comprehensive platform. Human body temperature detection is one of the functions. You can use card management to set temperature-related functions to the 'common functions' page.
2. Click 'Card Management' to manage all the functions.
3. Click the 'face recognition' to enter the temperature measurement interface.

Body Temperature Measurement System–Interface brief
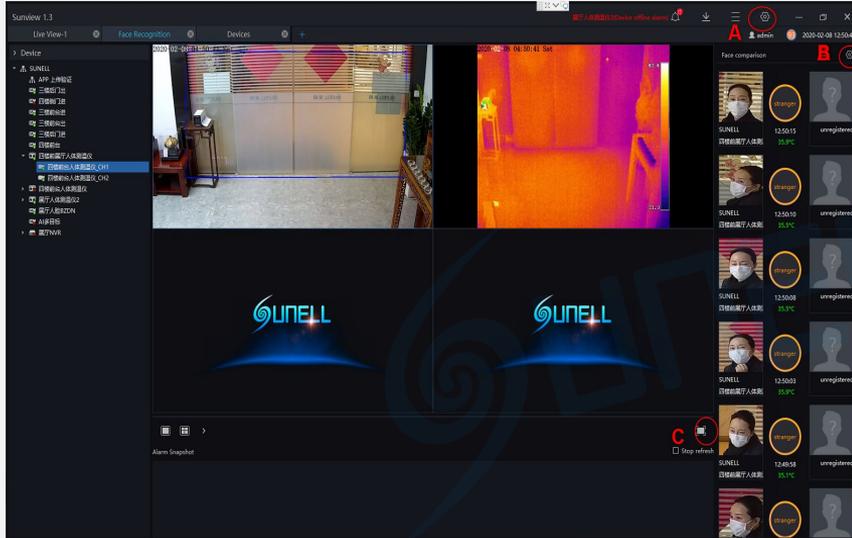
1. The left side of the figure is the device list, the upper middle area is the live video window, the lower middle is the capture area, and the right side is the face comparison and temperature display area.
2. The button "A" in the picture is use for turn on the pop-up window of the over-temperature alarms, and the button "B" in the picture is use for turn on the voice broadcast setting function menu.
3. The button "C" in the figure is use for switched to the full screen mode. In the full screen mode, the face temperature measurement method is displayed by a rolling card swipe method, and the measured personnel information and temperature information are broadcasted by voice.

Body Temperature Measurement System–Add device
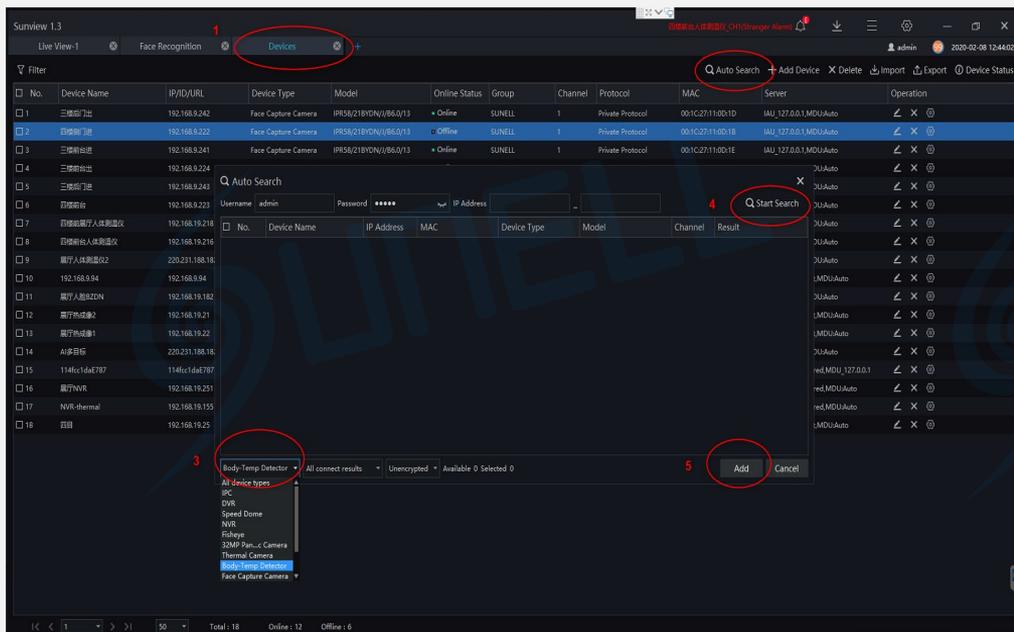
1. On the function page, click the device management card to enter the device add interface, as shown in Figure.
2. At the 2 position in the figure, click the automatic search to pop up the device search interface.
3. In position 3 in the picture, select the Body-Temp Detector.
4. At the 4 position in the figure, click to start searching for the Body-Temp Detector. After the device is found, select it.
5. Then at the 5 position in the figure, click Add to complete the equipment addition.

Body Temperature Measurement System–Temperature configure
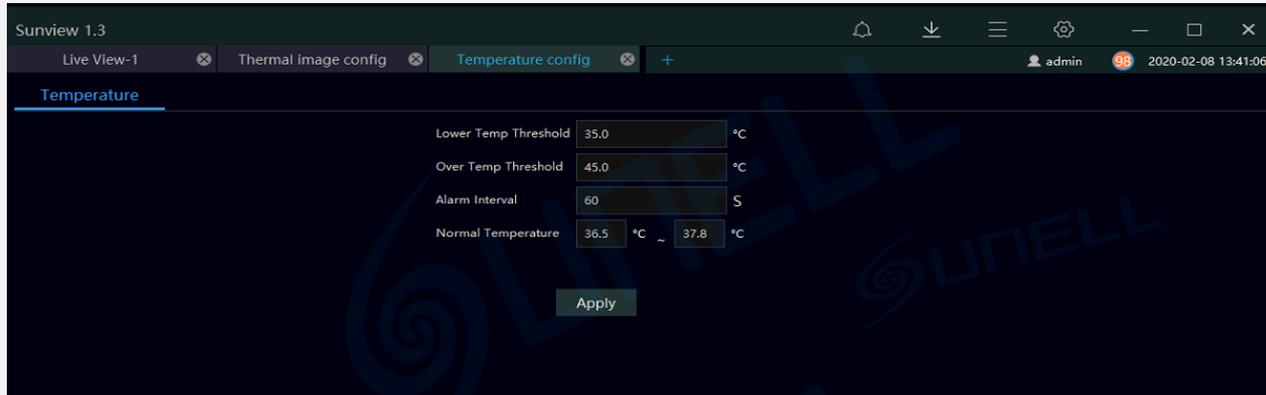
1. On the function page, click the temperature configuration card to enter the temperature configuration interface, as shown above.
2. In the temperature configuration, there are 4 items of data that need to be filled in according to actual needs. The low temperature threshold value is the lowest temperature measurement threshold. Body temperatures below this temperature value are considered invalid body temperature and will not be recorded or displayed. The default value is 35 degree.
3. The high temperature threshold is the upper limit of the temperature measurement. A body temperature higher than this temperature value is regarded as an invalid body temperature and will not be recorded or displayed. The default is 45 degrees.
4. Alarm interval, which is the interval between two consecutive alarm times, the default is 60 seconds.
5. Normal temperature is the normal body temperature interval. The temperature in this interval will not be alarmed. If the temperature exceeds this interval, an alarm will be issued. The default normal body temperature is 36.5 degrees to 37.8 degrees.
6. After configured each value, click Apply to save.

Human Body Radiometric Detection System—Over temperature alarm

Pop-up configuration
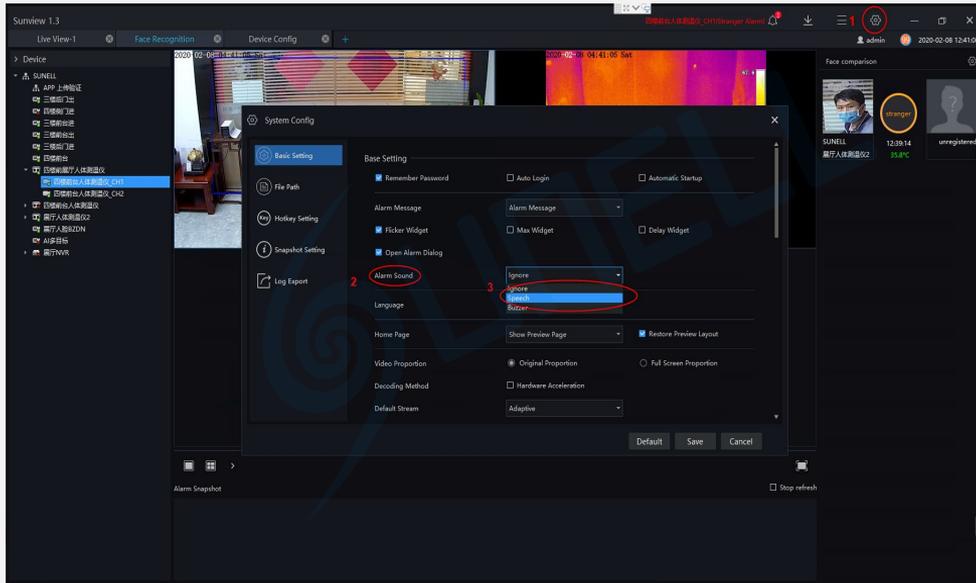
1. Click the button 1 in the figure, enter the system configuration interface, then set the alarm pop-up window and alarm sound.
2. At position 2 in the figure, tick the auto popover function, then It can realize the function of auto popover prompt when alarm.
3. At position 3 in the figure, this function is only useful when the camera has a sound playback function. There are three options. If you choose ignore, there will be no voice prompt for alarm. When you choose voice broadcast, corresponding voice prompt will be played, Broadcast content can be customized， When selecting the buzzer, the alarm sound is beeping.
4. Click the save button in the lower right corner to save the configuration.

Body Temperature Measurement System–Full screen card display and voice broadcast
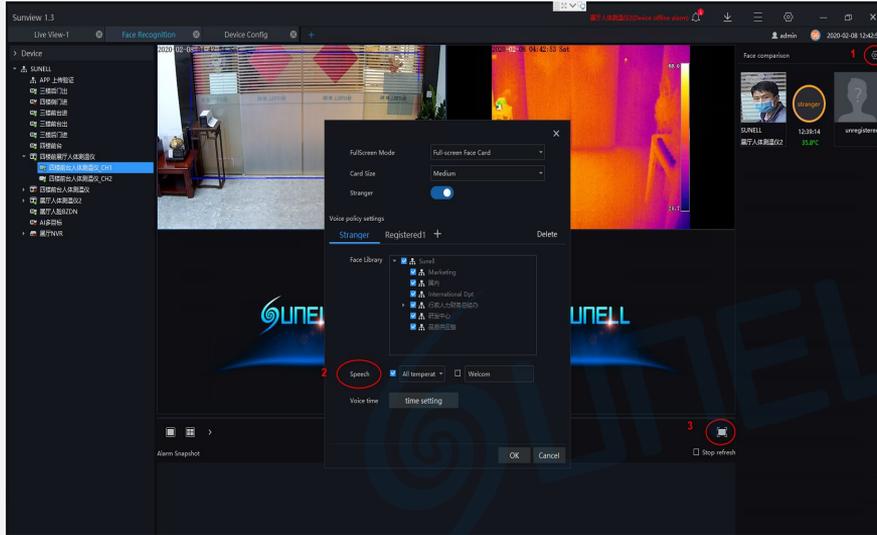
1. Click on the upper left position in Figure 1, then go to full screen face card mode.
2. In figure 2 on the upper left, set voice broadcast in full screen mode. Voice broadcast can be selective broadcast, You can report all the temperatures, or can also broadcast only the overtemperature information, and It can also be broadcast with a custom greeting. click OK Save Settings.
3. Click the button in figure 3 on the upper left, Go into full screen card mode, as shown in the picture above on the right.
4. Done!

Thank you

Note：
1. The installation methods provided in this document are for reference only. Please select the best installation method according to the actual situation according to the project environment.
2. The equipment and Sunview system provided in this document are fast-use methods. For reference only, project deployment and commissioning, please read the instruction manual in detail.