1 Function introduction
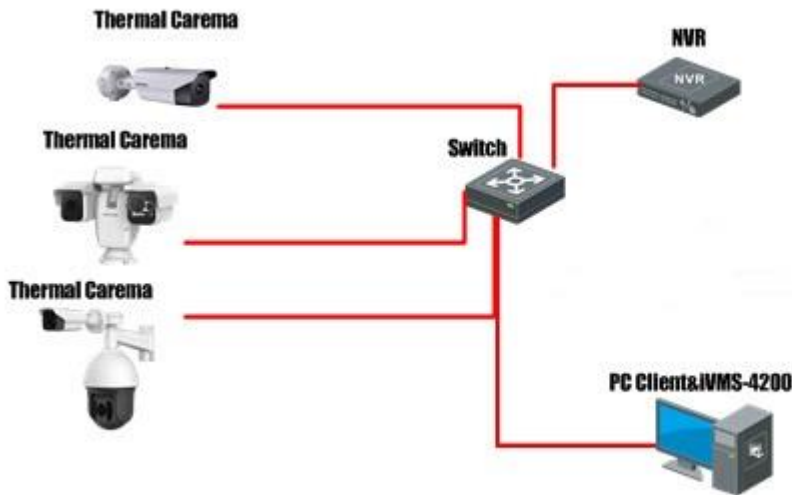
At present, NVR supports four alarm types of thermal camera**: Perimeter Fire Source detection, Temperature measurement alarm and Temperature difference alarm.** The topology diagram of the general thermal camera application in the field is shown as the following figure, which mainly consists of the thermal camera, transmission network, and center management.

After the thermal camera is connected to NVR, it will provide the alarm code stream of VCA and pictures for NVR to display. After checking the Upload Center on the alarm configuration interface of the thermal camera, the device will upload the corresponding alarm information to the NVR. If the device continues to alarm for a period of time, the thermal camera can send up to 4 alarm messages to the NVR within 1S.

2 NVR supported models and versions

NVR	NVR version	Firmware of NVR path
I series NVR	Latest firmware	/00 Oversea Products/01 IP/03 NVR/04 Firmware & Release Note/04 I/[76 77 96 NI-I]/

3 This section describes the functions of the thermal camera connected to the I series NVR

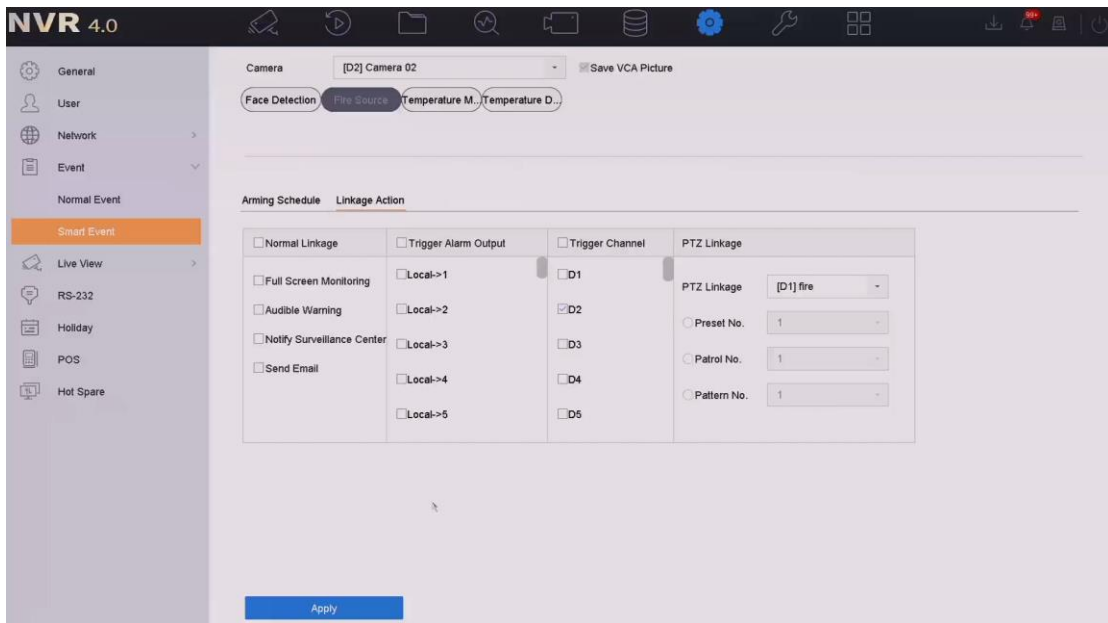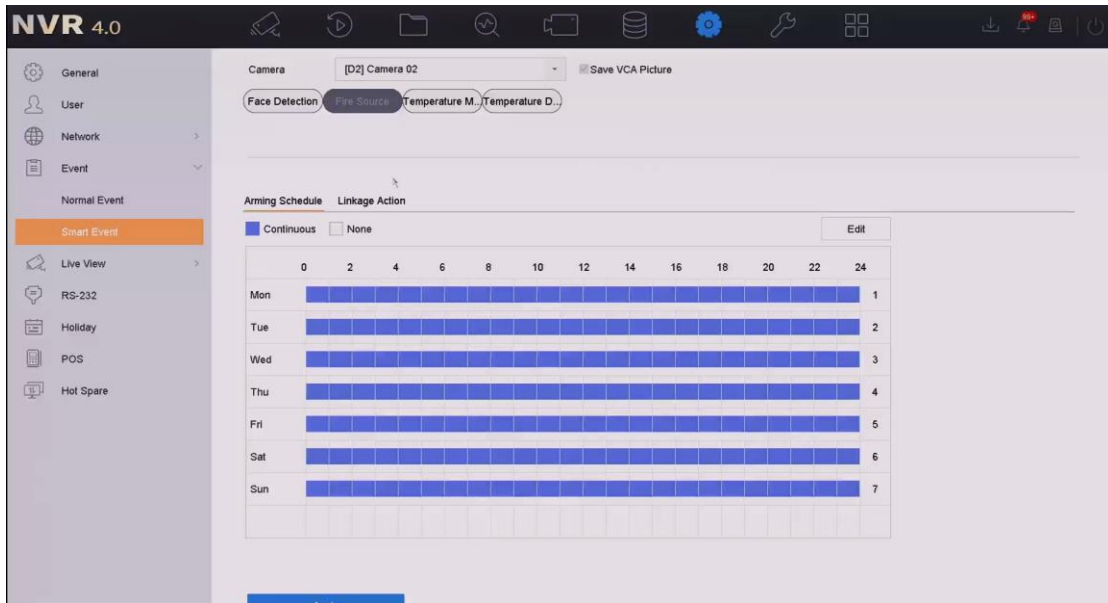| |
|---|
| 1. Preview, playback, remote simple configuration, receive VCA alarm information. |
| 2. smart detection on the NVR local preview interface after V4.40 supports real-time temperature detection. |
| 3. The alarm picture (including intelligent rule information display) can be found locally in VCA Search. |
| 4. PTZ can be configured for alarm deployment linkage. The NVR version is later than V4.1.50. |
| 5. VCA alarm information can be viewed by accessing 4200. |

4 NVR alarm configuration

4.1 Fire Source detection

To enable this alarm, ensure that this function is enabled on the WEB side of the thermal imaging camera. Configure the function according to the following figure：
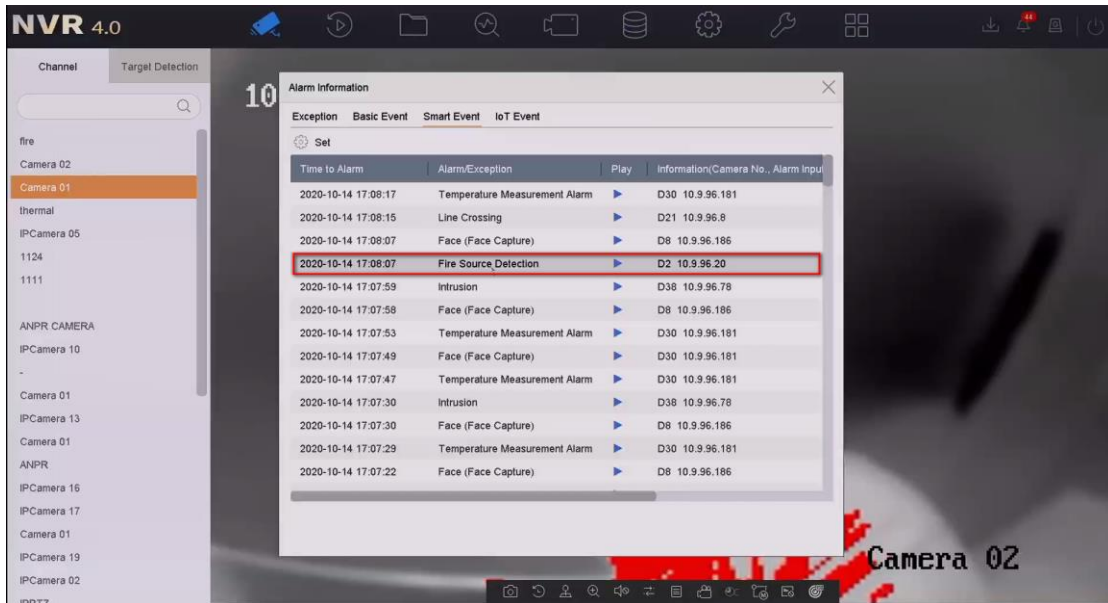

After the thermal camera is added to the back-end NVR, the NVR cannot configure related alarm rules for fire point detection, but can only configure related defense linkage for its alarm, as shown in the figure below:
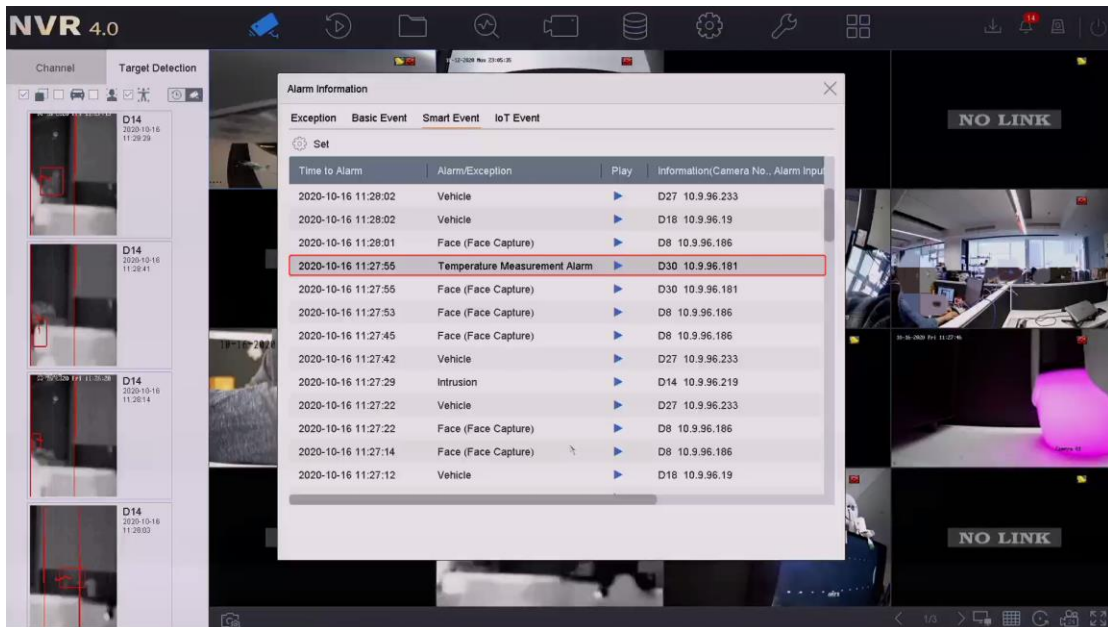
After the Fire Detection alarm is triggered, the alarm type received by the NVR local end is Fire Source Detection, as shown in the figure below：

4.2 Temperature Mesurement alarm

After the Temperature Mesurement Alarm is triggered, the GUI receives a Temperature Mesurement Alarm, as shown in the following figure.
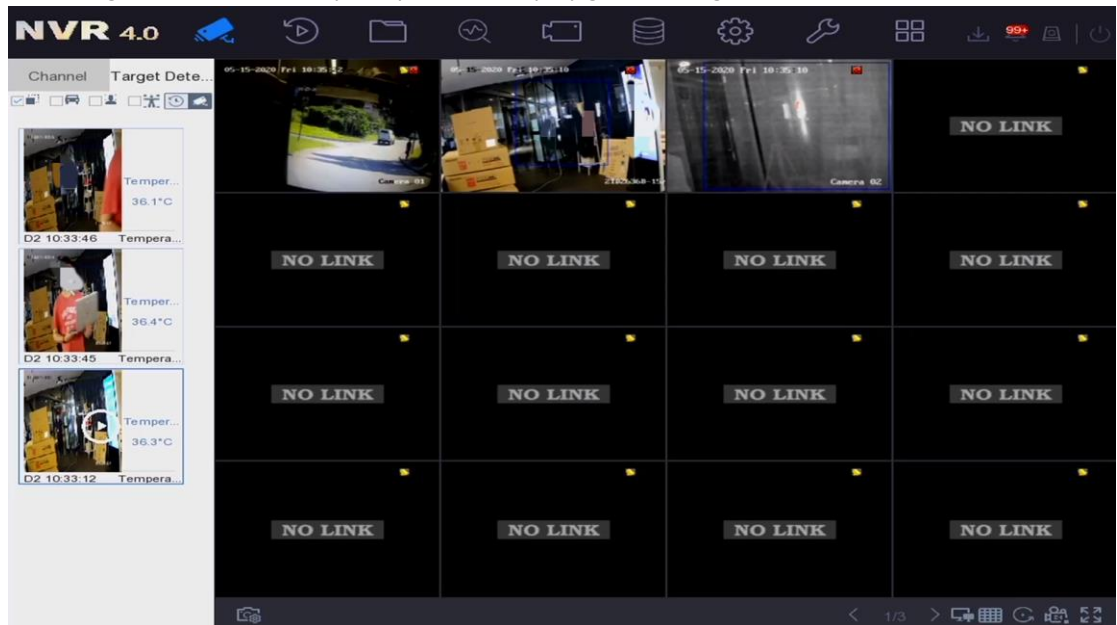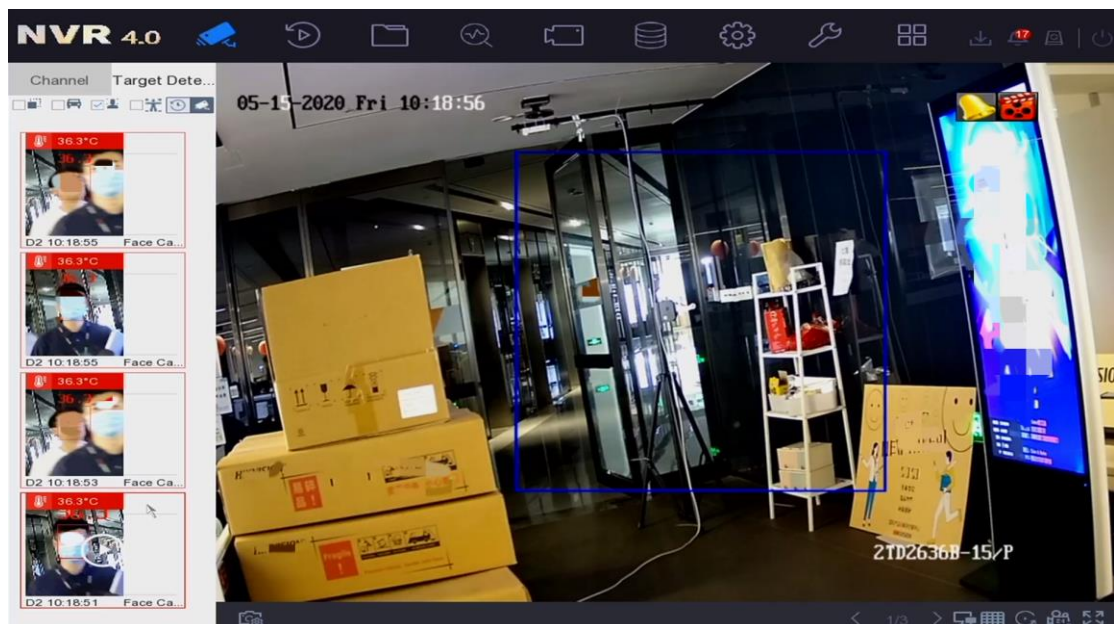

4.2.1 General Temperature Mesurement alarm

Since version V4.40, the GUI target detection interface and 4200 Epidemic Prevention and control interface can display temperature alarm, and each alarm can be sent to the platform with two visible and thermal images.

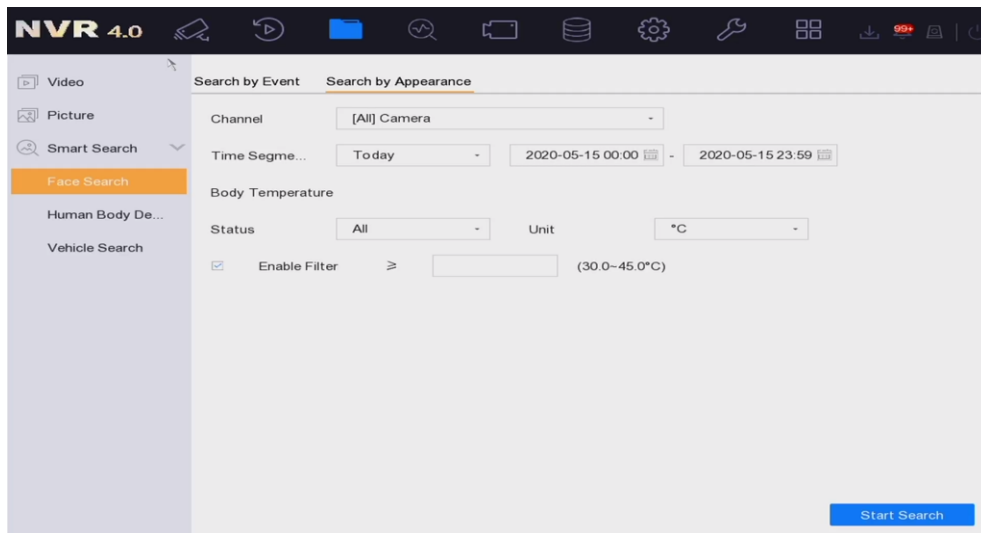## 4.2.2 Face temperature alarm (support from version V.4.40)

1. Support the local target detection interface and 4200 epidemic prevention and control interface to display human face temperature alarm, abnormal body temperature display red background, normal body temperature display green background.

2. Support body temperature state linkage voice broadcasting function. abnormal temperature and normal temperature have two English pronunciations. Other languages are not supported. Normal body temperature is not associated by default, and abnormal body temperature is not associated by default.
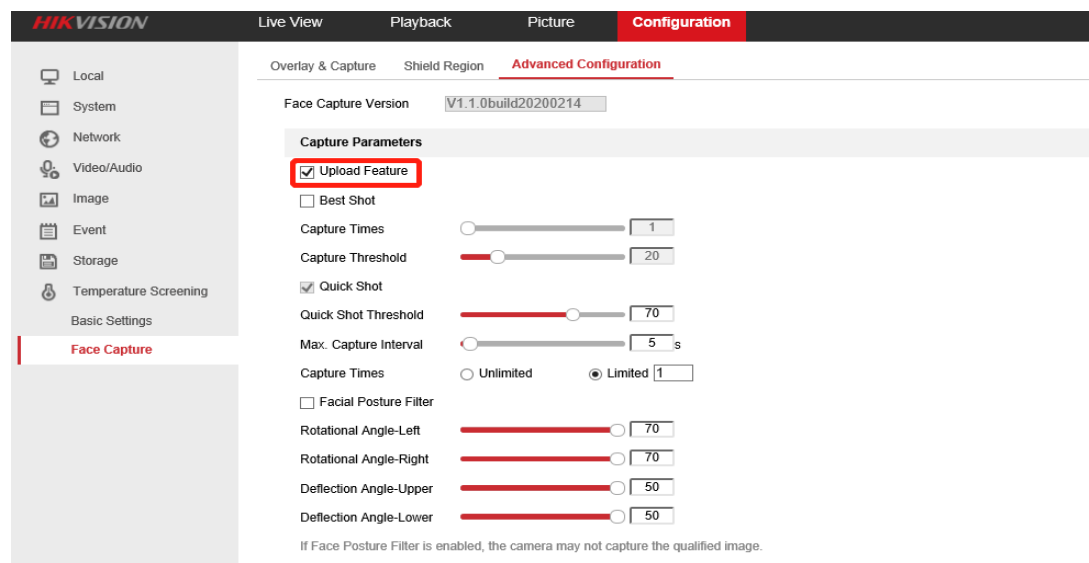

1. Support local and 4200 to retrieve face pictures according to body temperature state and temperature range, and support to display search results in specified temperature units.
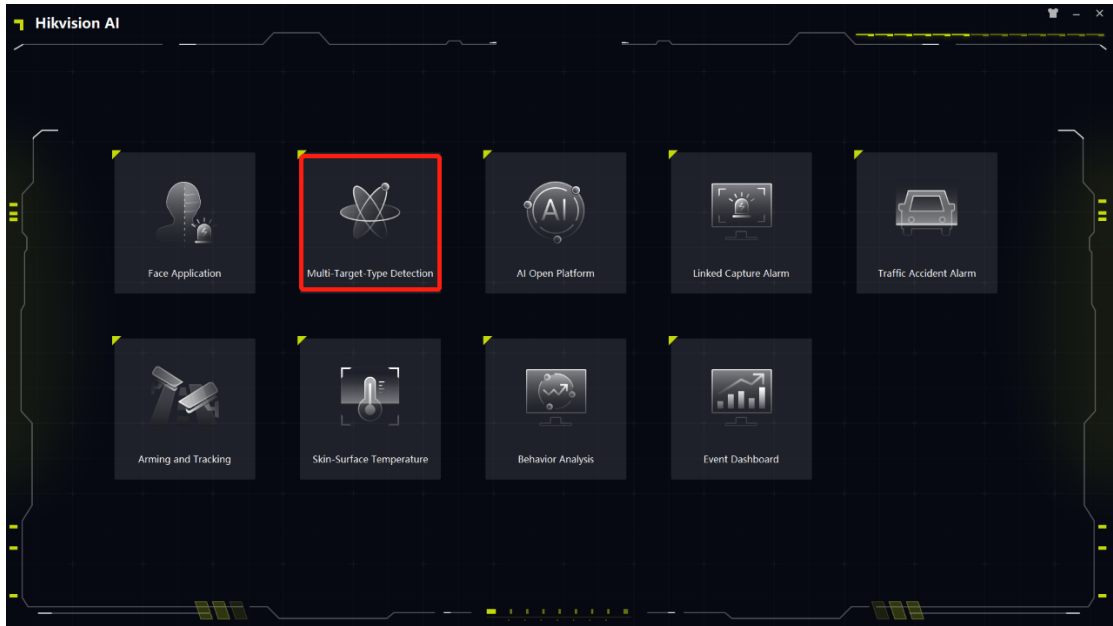
5 Human body temperature customized firmware

This firmware is different from the baseline release in that the firmware release is updated   FTP: /01 All Materials of Temperature Screening Solution/02 NVR/05 Firmware/I Series NVR/

5.1 Precautions for mask detection

1. To display the mask detection results in real time on the left side of the NVR preview interface, note that the **upload feature** must be checked on the WEB side of the thermal camera.

2. To display the mask Detection effect on 4200, remember to use the **Multi-Target Type Detection** module in AI dashboard.