Temperature Screening MinMoe Configuration

HIKVISION

CONTENTS

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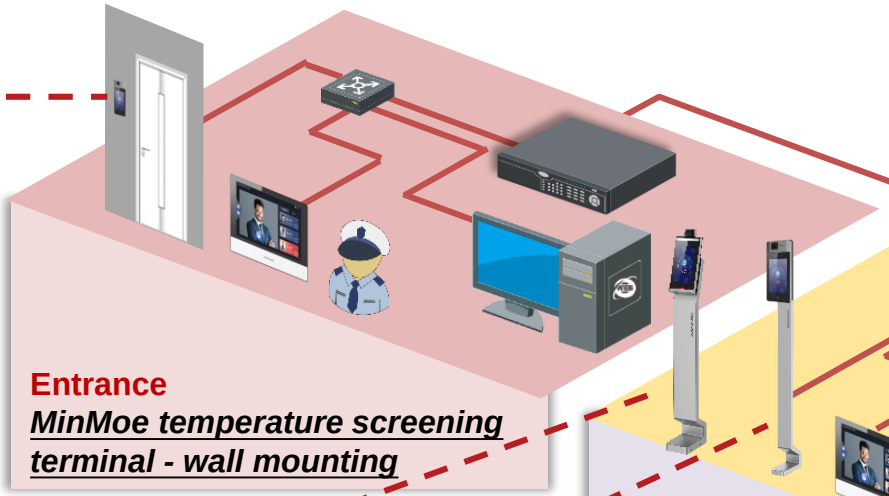
- Introduction
- Preparation
- Installation
- Local GUI Configuration
- Operation
- Q&A

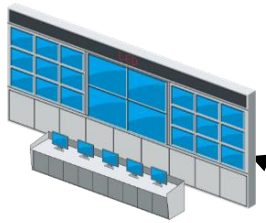
Introduction -> System Structure

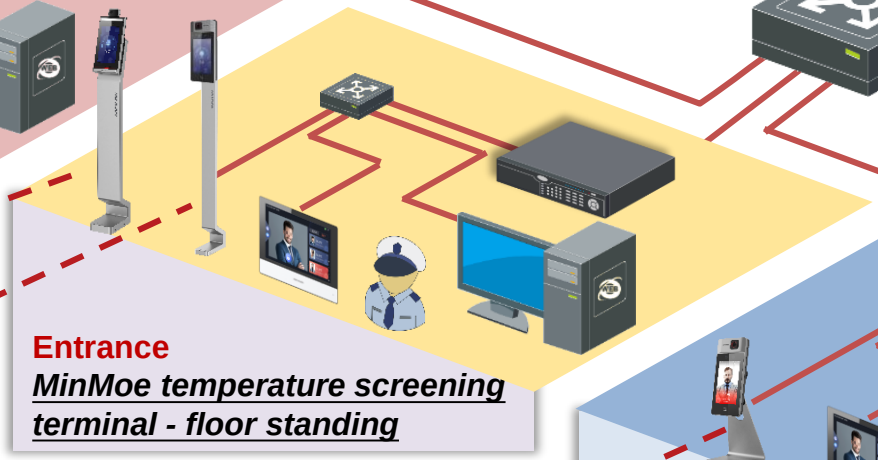
Access control and temperature events can be managed by iVMS-4200 or HikCentral Professional.

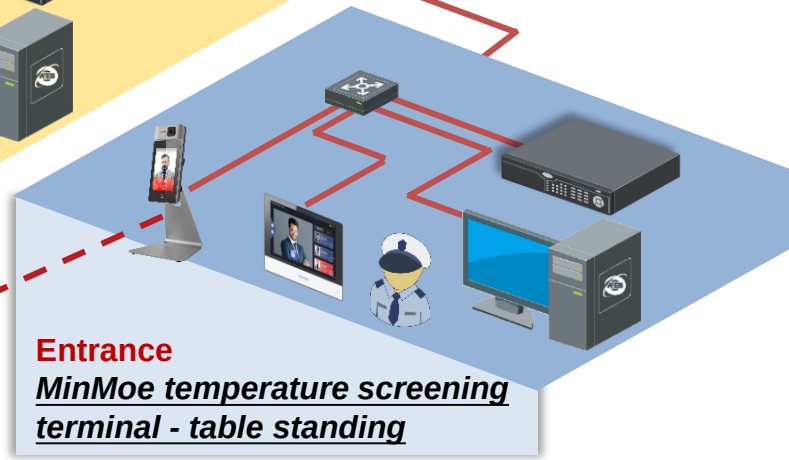
MinMoe touch-free temperature screening solutions

Wall mounting & access control





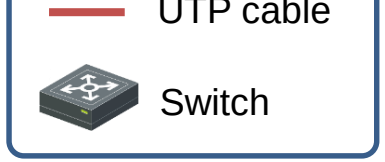




All-in-one fast deployment

Stand bracket(Optional): Floor standing with mounting pole

Table bracket(Optional): table standing with bracket



Introduction -> Device Parameters

DS-K1T671TM-3XF

Temperature measurement	Sensor	Vanadium Oxide uncooled sensor
	Resolution	120 × 160
	Frame rate	25 fps
	Temperature range	30 °C to 45 °C
	Temperature accuracy	±0.5 °C, without black body calibration
	Measuring distance	0.3 to 2.0 m
Other	Working voltage	12 VDC/2 A
	Working temperature	0 °C to 50 °C For temperature measurement: 10 °C to 35 °C
	Working humidity	10 to 90% (No condensing)
	Application	Indoor
	Application environment	Indoor and windless environment use only

50,000 face capacity
50,000 M1 card capacity
100,000 event capacity

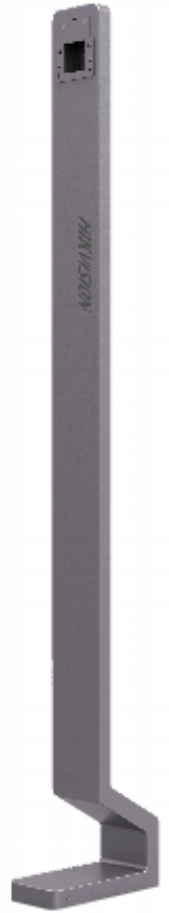
Introduction -> Device Parameters

	DS-K5604A-3XF/V	DS-K1T671TM-3XF
	Plug & play	
LCD screen	10.1 inch	7 inch
Face capacity	50,000	50,000
Card capacity	N/A	50,000 M1 cards
Thermal imaging resolution	120 x 160	120 x 160
Temperature range and accuracy	30-45° C (±0.5 ° C)	30-45° C (±0.5 ° C)
Authentication Distance	0.3-2m	0.3-2m
Mask detection	Support	Support
Fast temperature measurement	Support	Support
Deployment	Plug & play, floor standing Including power adaptor	Wall mounting/ floor standing with mounting pole

Introduction -> Device Parameters

DS-KAB671-B (Optional)

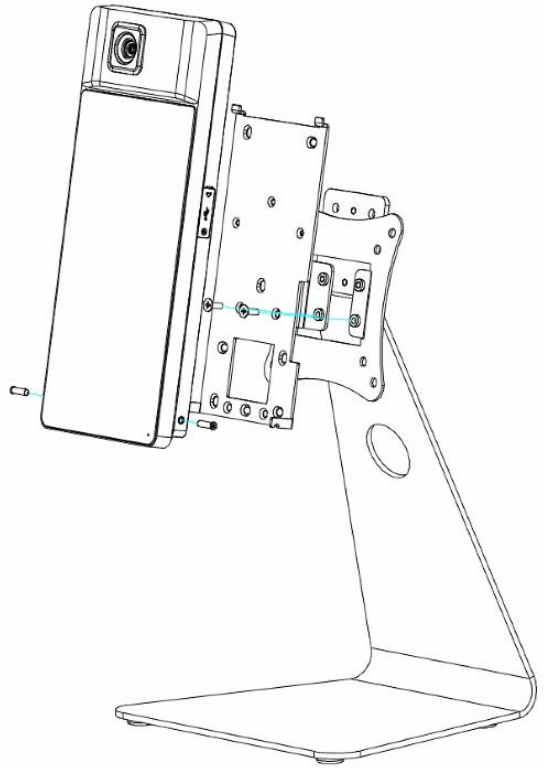
Material	SPCC
Weight	6.7 kg (14.8 lb.)
Dimension (W x H x D)	98.5 mm × 1342 mm × 225 mm (3.9" × 52.8" × 8.9")



Introduction -> Device Parameters

DS-DM0710BL base bracket (Optional)

Material	SPCC
Weight	6.7 kg (14.8 lb.)
Dimension (W x H x D)	193 mm × 353.5 mm × 195.5mm (7.6'' × 14.3'' × 7.7'')
Net Weight	2.2 ± 0.5 Kg (4.85 ± 1.1 lb)
Gross Weight	2.5 ± 0.5 Kg (5.51 ± 1.1 lb)



Introduction -> Device Parameters

DS-KC001 monitoring tablet (Optional)

Screen	7-inch Touch-Screen
Display resolution	1024 * 600
Records quantity	100,000
Dimension (W x H x D)	200 mm × 140 mm × 15.5 mm (7.87" × 5.51" × 0.61")
Weight	419.3 g (without package)

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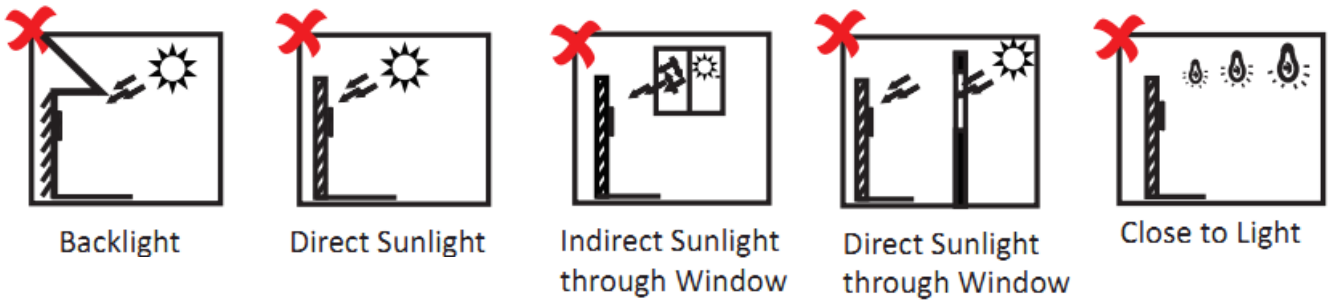
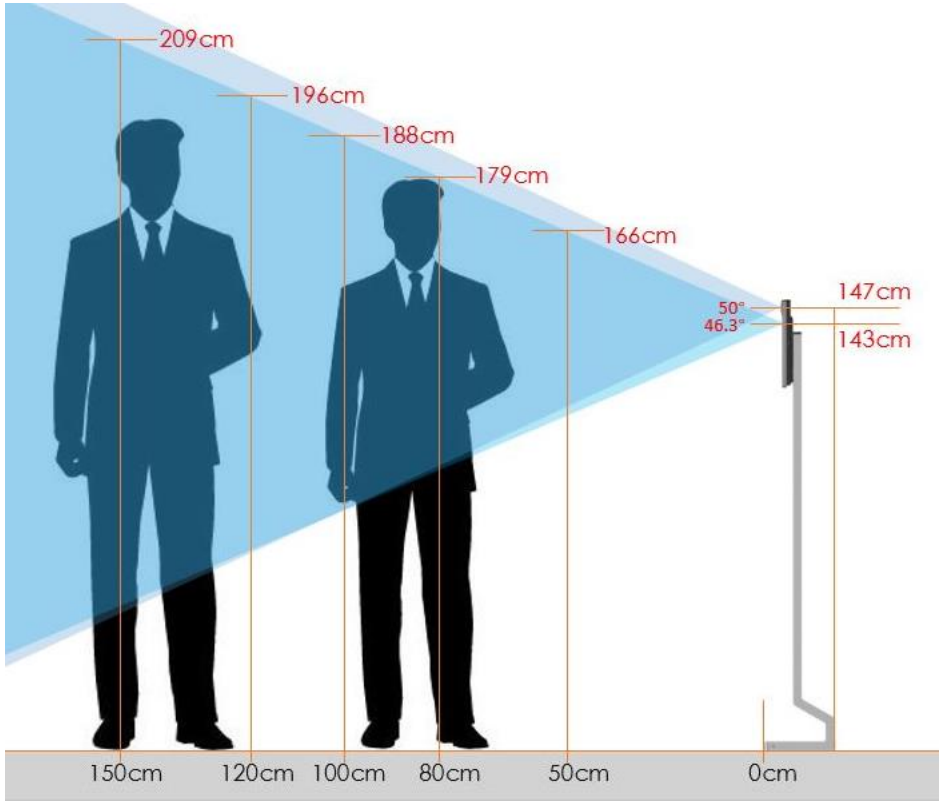
Preparation -> Site Selection

1. Indoor and windless environment use only. Indoor environment temperature must be 10 ~ 35℃. If beyond this range, the temperature measurement accuracy of the device cannot be guaranteed.
2. The device should be at least 2 meters away from the light, and at least 3 meters away from the window.
3. Make sure the environment illumination is more than 100 Lux. (Similar with 10W LED lamp)
4. Suggest installation height is 1.4 m.
5. LAN cable available. Terminal doesn't support WiFi.
6. Power source available.

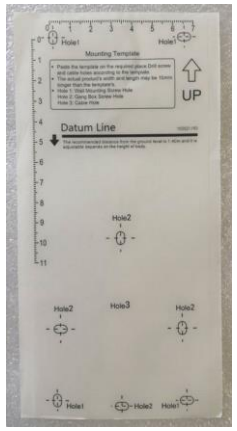




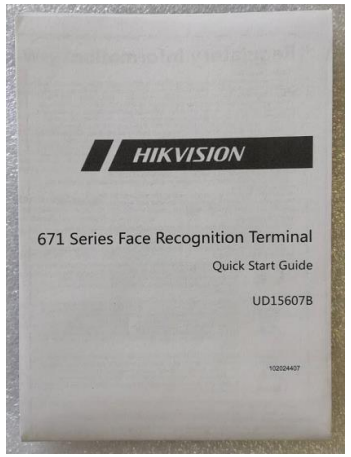
Preparation -> Unbox Terminal

Thermal MinMoe Terminal

Bracket



Accessories



Quick Start Guide

Quick User Manual

Preparation -> Unbox Floor Stand Pole

Package

Pole and accessories

Preparation -> Accessories and Tools

Accessories for each terminal

1. Qualified power adapter - 12V DC, 2A.
2. LAN Cable.
3. Gang box (optional).

Tools

Screwdriver set (Compulsory), wire stripper, impact drill, etc.

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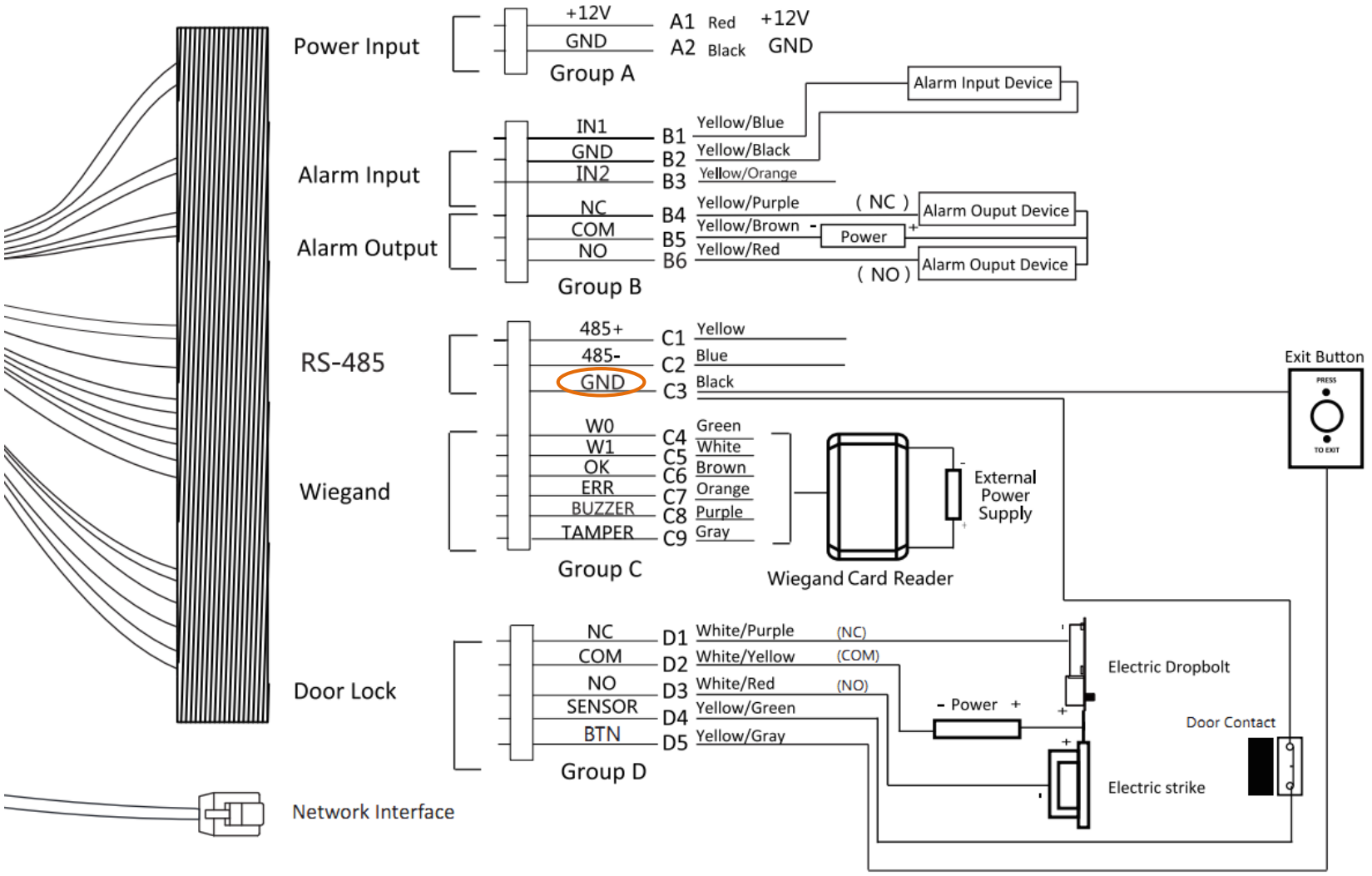
Installation -> Terminal Wire Connection

1. GND is the common interface for RS-485, exit button, and door contact sensor.

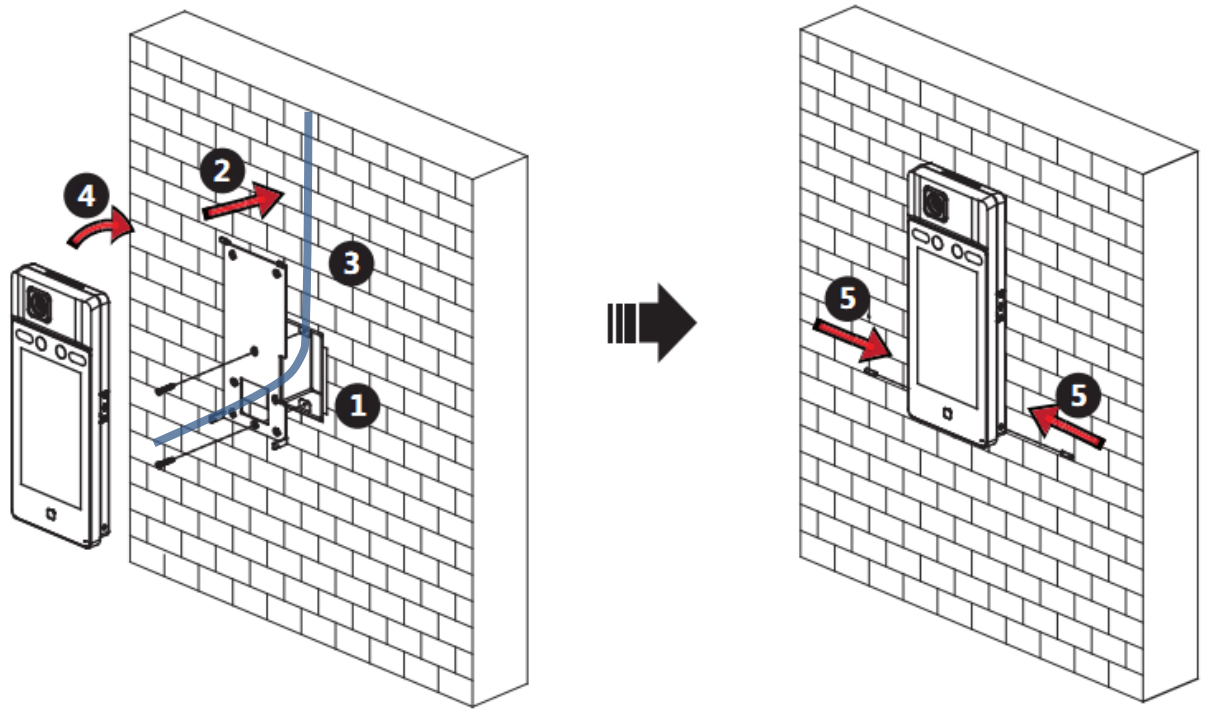
2. If exit reader, touchless exit button, security unit, or lock is used, need to arrange a power adapter which can give enough power output for all of the devices.

3. Please ensure that the equipment is powered off during the installation and wiring.



Installation -> Wall Mounting

1. Drill holes on the wall and install gang box.
2. Secure the mounting plate on the gang box and wall.
3. Route the cables through the cable hole of the mounting plate, and connect to the corresponding external devices.
4. Align the device with the mounting plate and hang the terminal on the mounting plate.
5. Use screwdriver to secure terminal on mounting plate.



Installation -> Pole Mounting

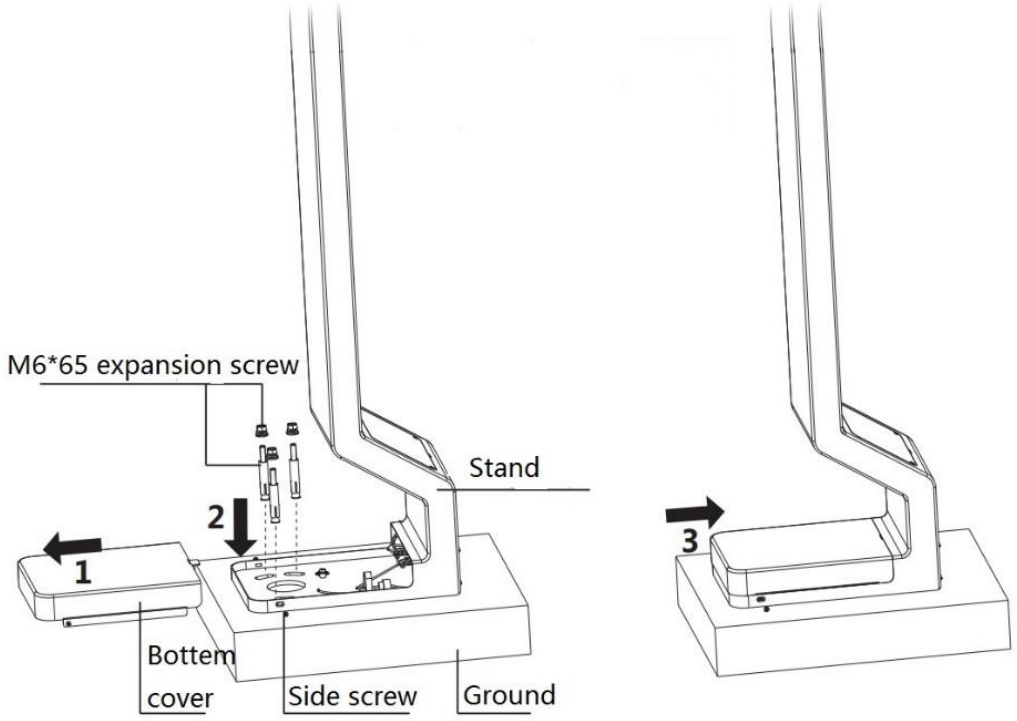
Install floor stand pole

1. Unscrew the two screws on the side of the bottom cover and remove bottom cover.

2. Install the expansion screws in the package into the holes at bottom. Make sure the expansion screw is slightly above the ground and secure it with nut.

3. Connect cables inside pole.

4. Move back the bottom cover and screw back the two screws on the side.



Install terminal on the pole

1. Connect wires of terminal.

2. Fix terminal on the pole.

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SMALL TIP

Keep everything the latest version.

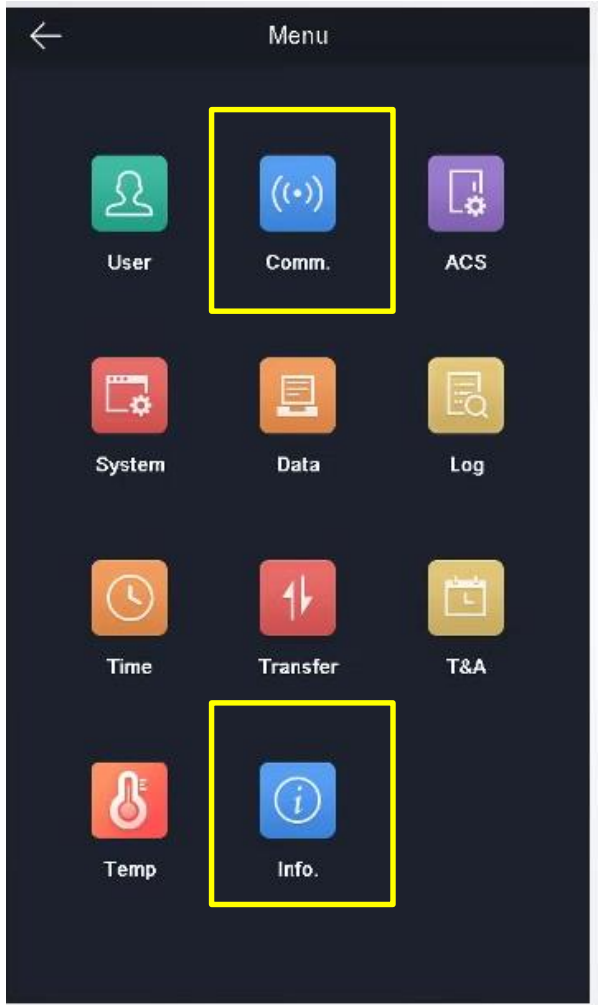
Firmware & iVMS-4200

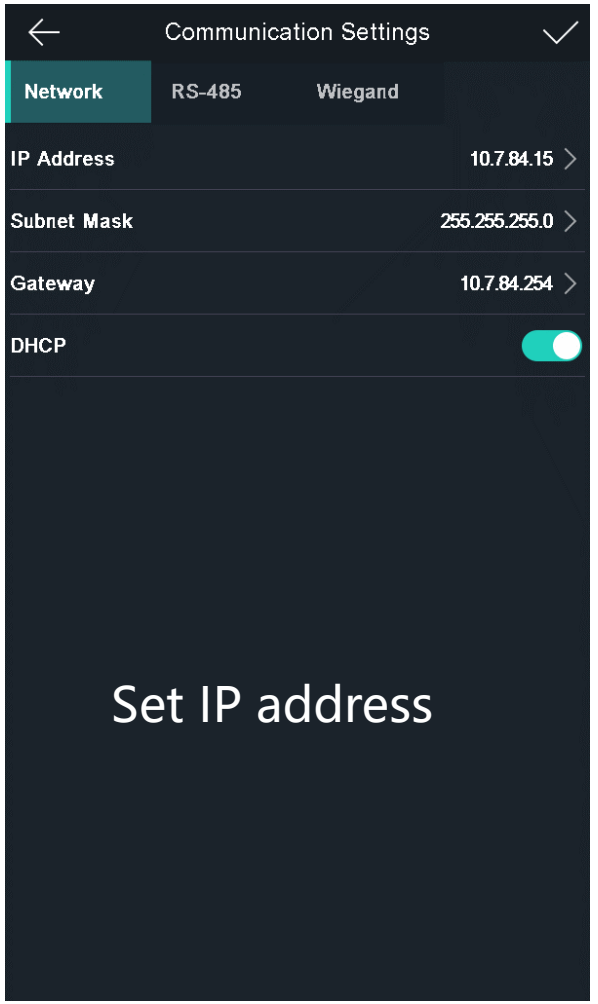
Where to find the latest?

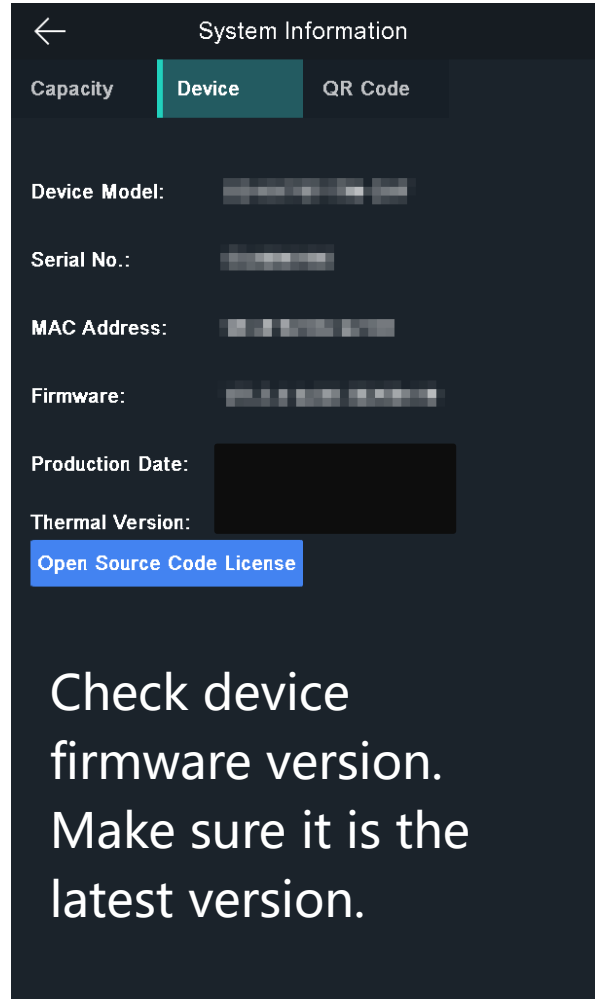
- UK PORTAL
- HIKVISION WEBSITE

Configuration -> Basic Settings

1. Activate the device.
2. Press on the screen for 3 seconds to input password and enter local menu.



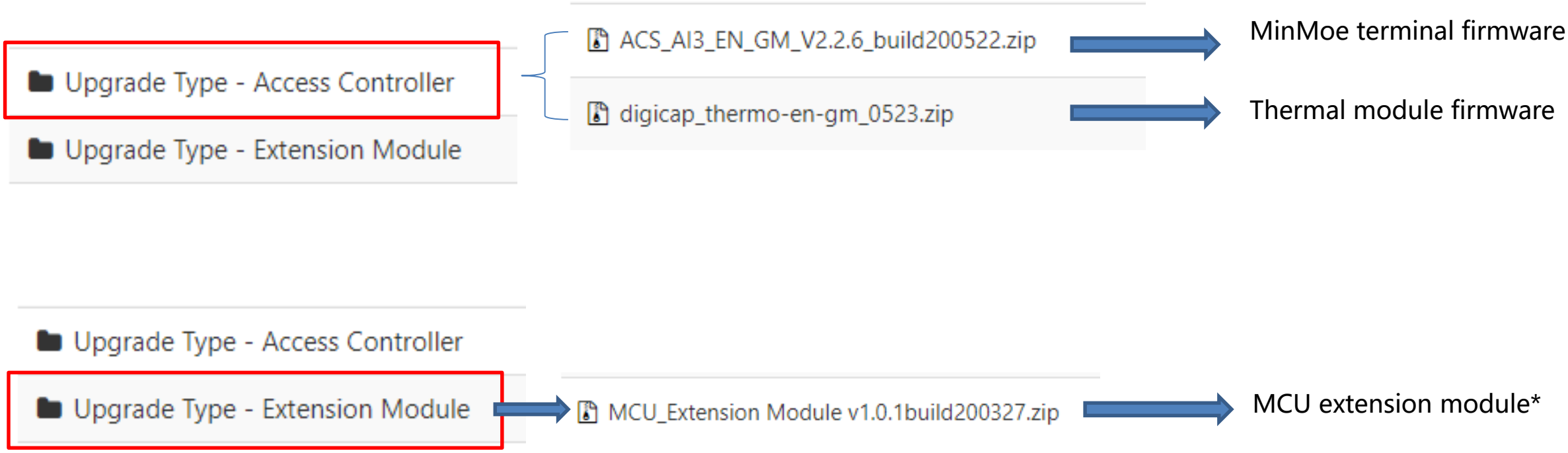




Firmware:
http://www.hikvisioneurope.com/uk/portal/?dir=portal/Product%20Firmware/00%20Temperature%20Screening/Temperature%20MinMoe%20%28DS-K1T671TM-3XF%26DS-K5604A-3XF_V%29/firmware

Configuration -> Firmware explained

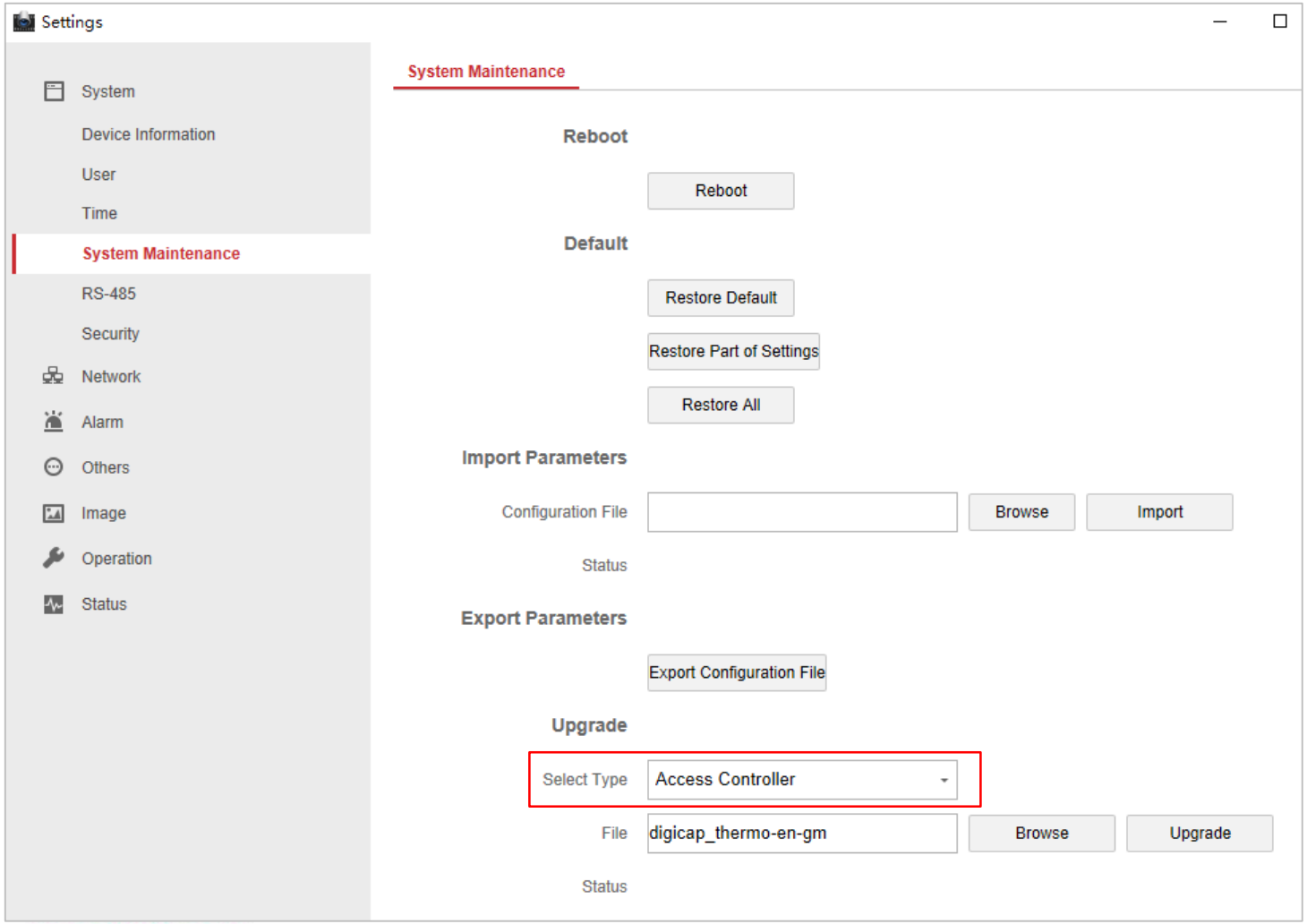
UK PORTAL



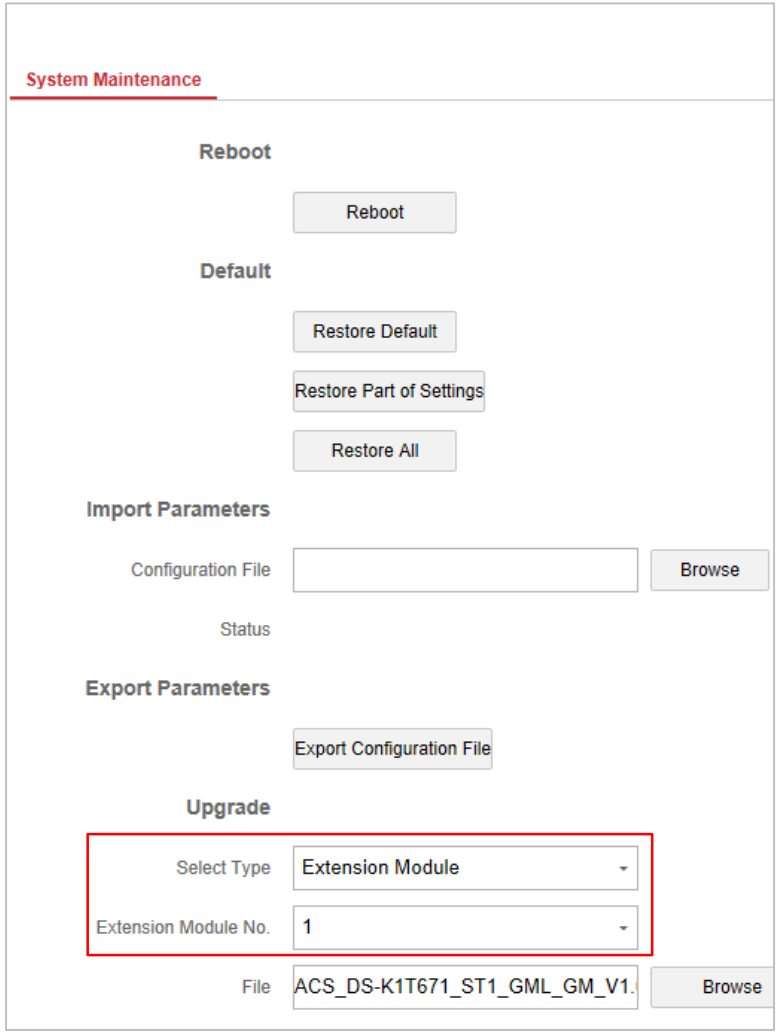
*normally no need to upgrade

Configuration -> Device Upgrading

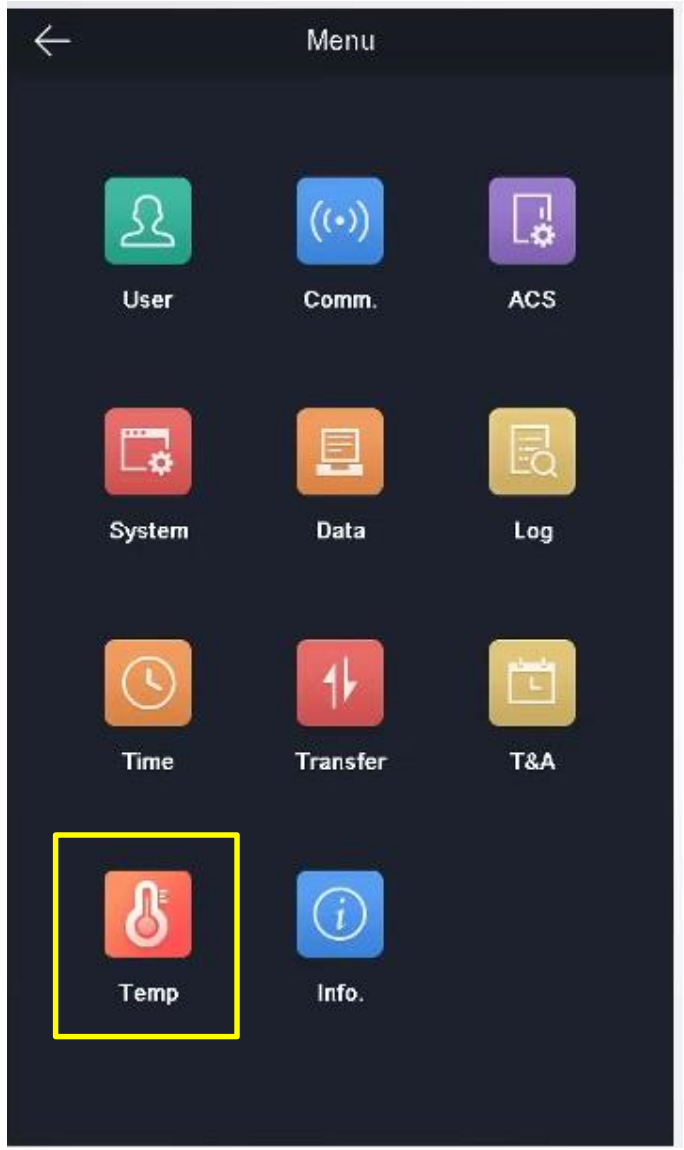
Upgrading **Terminal firmware** & **Thermal camera**



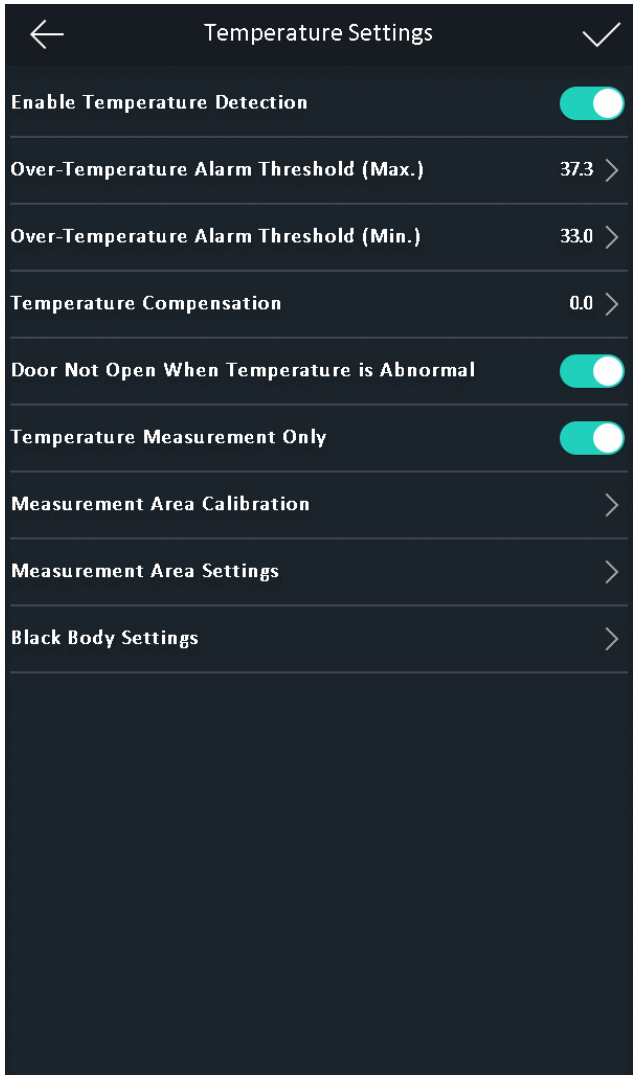
Upgrading **MCU**



Configuration -> Temperature Settings



Configuration -> Temperature Settings



If disable, terminal won't detect temperature, it will work as a traditional access control terminal.

When measured temperature is larger than Max. value or smaller than Min. value, alarms will be triggered.

For calibration purpose. Please refer to calibration guide. Calibration is recommended once per year.

To determine whether the abnormal temperature can open the door or not.

If enabled, anyone with normal temperature can open the door. If disabled, only authorized persons with normal temperature can.

Not required.

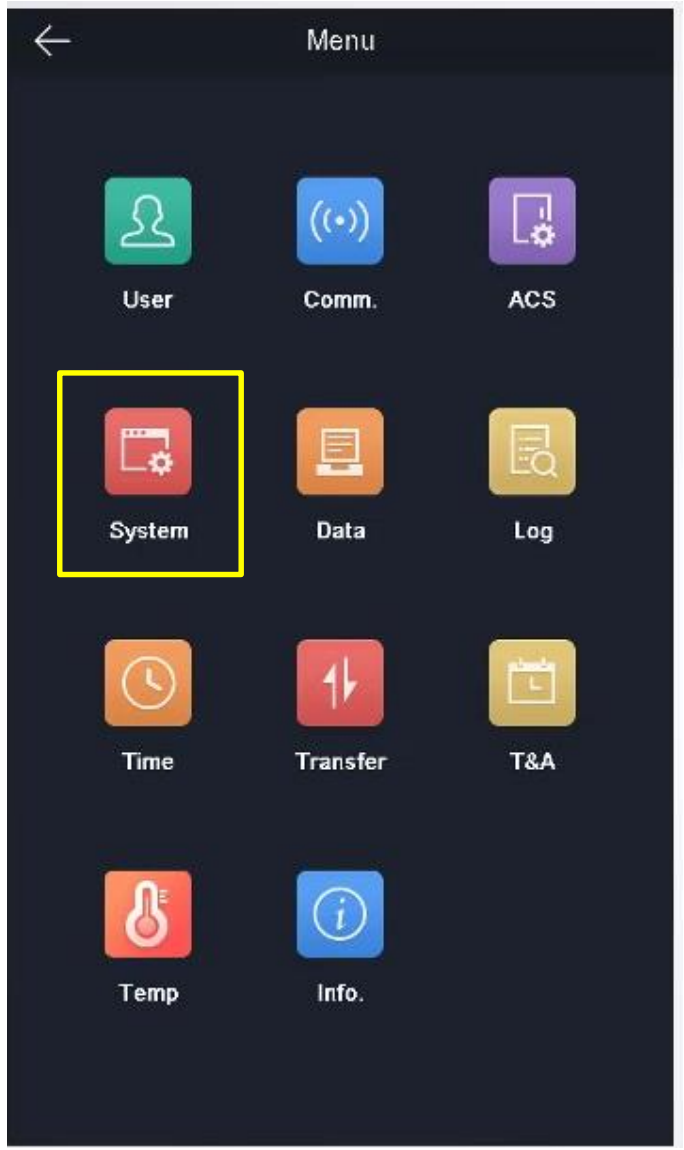
Not required.

For blackbody setting. Optional.

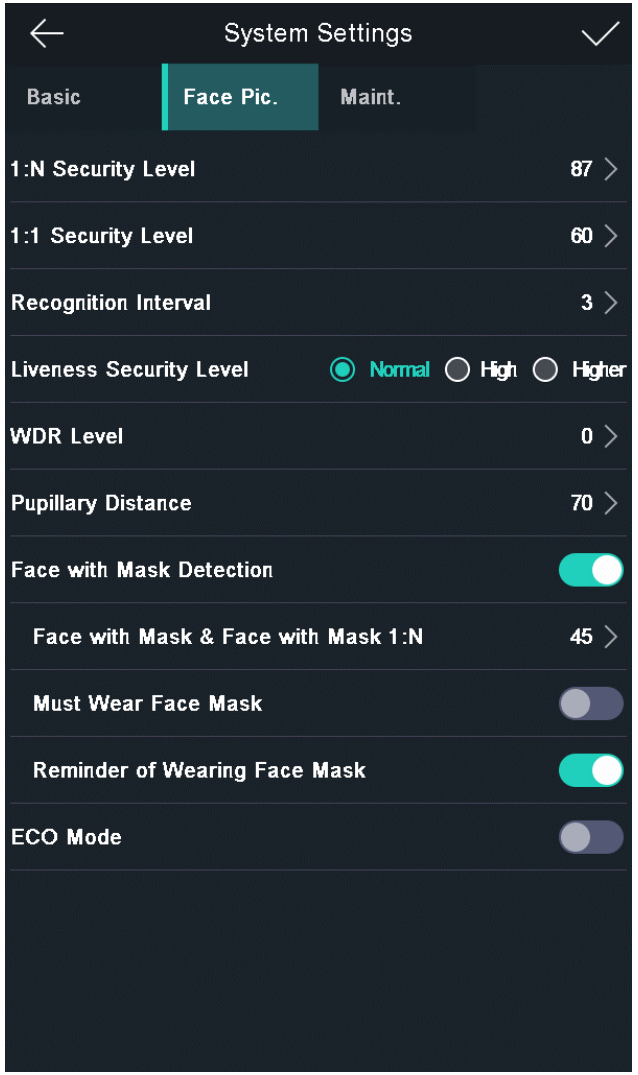
Note:

- Temperature Measurement Only mode is suitable for public venues such as supermarket, hospital, museum, restaurants, etc. For office building, recommend to disable it.

Configuration -> Mask Settings



Configuration -> Mask Settings



Anti-spoofing

Smaller value -> larger authentication distance

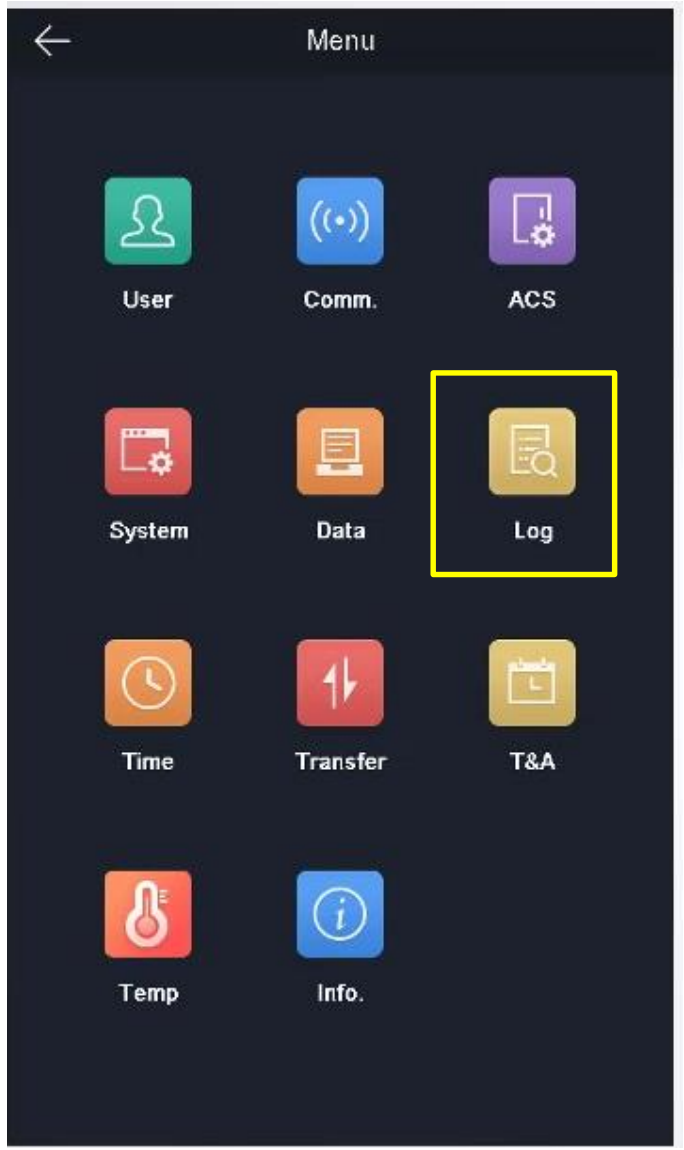
If disabled, terminal won't detect a face with mask.

Similarity level when terminal recognizes a face with mask.

If enabled, terminal won't open the door for the person without a mask.

If enabled, terminal will prompt a visual reminder on the local screen for the person without a mask.

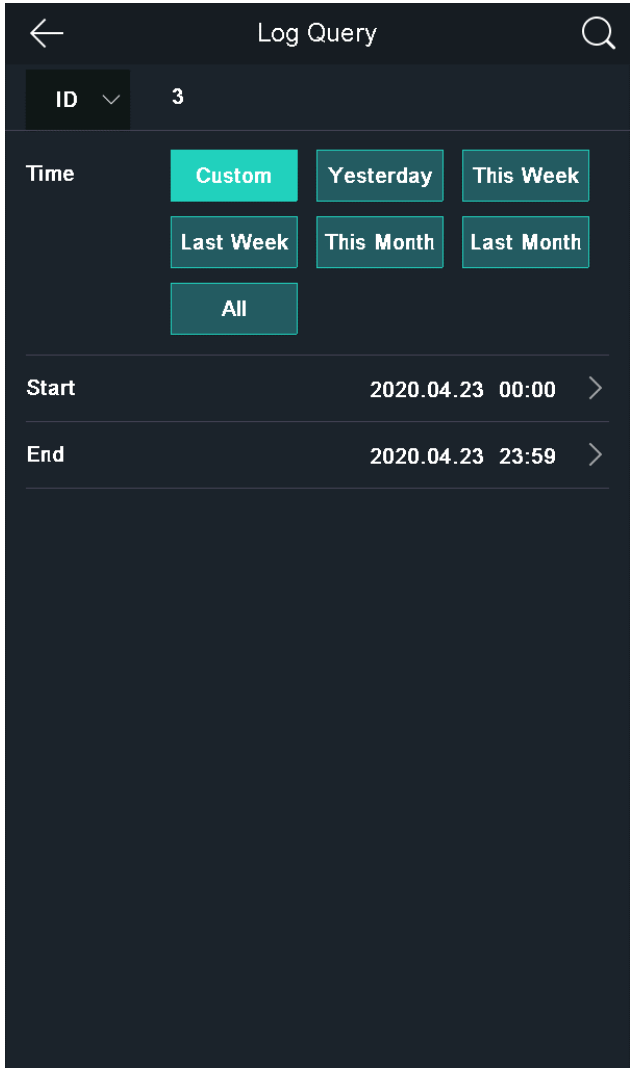
Local Operation -> Log query

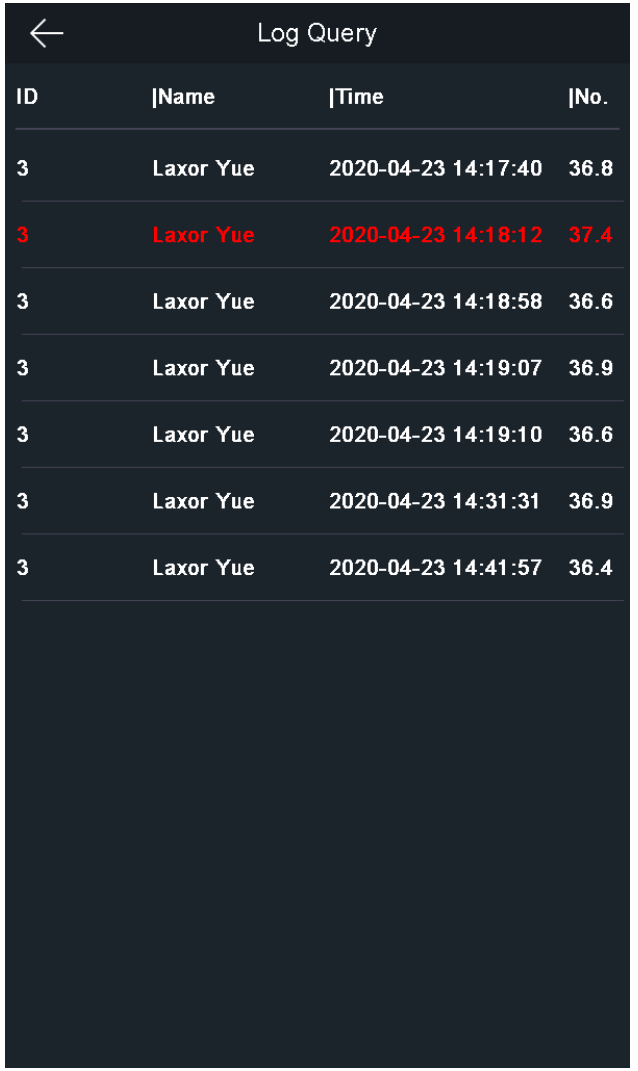


Local Operation -> Log query

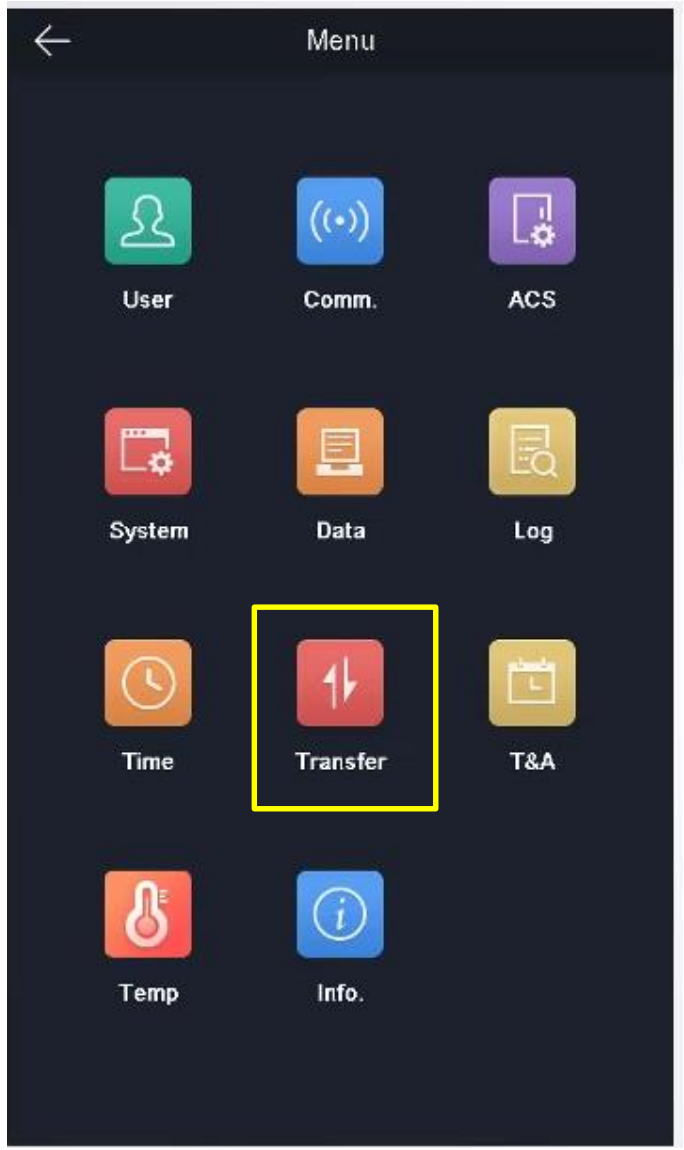
Support search log by person ID, card number and person name.

Abnormal temperature will be marked as red.





Local Operation -> Export records

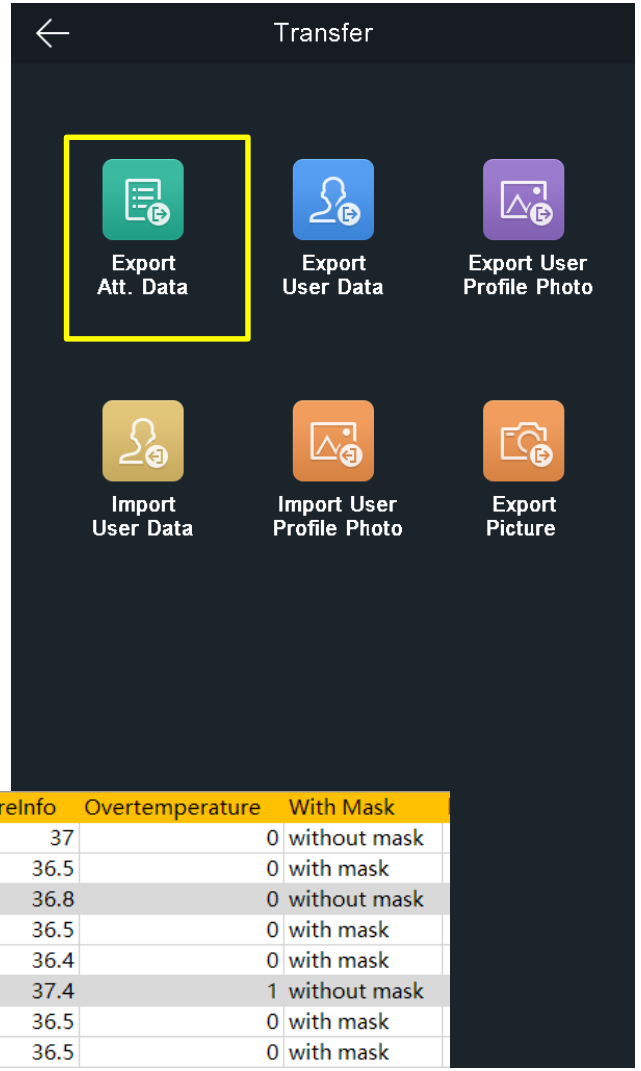


Local Operation -> Export records

Export authentication records to USB. (Default file name: Allevent.csv)

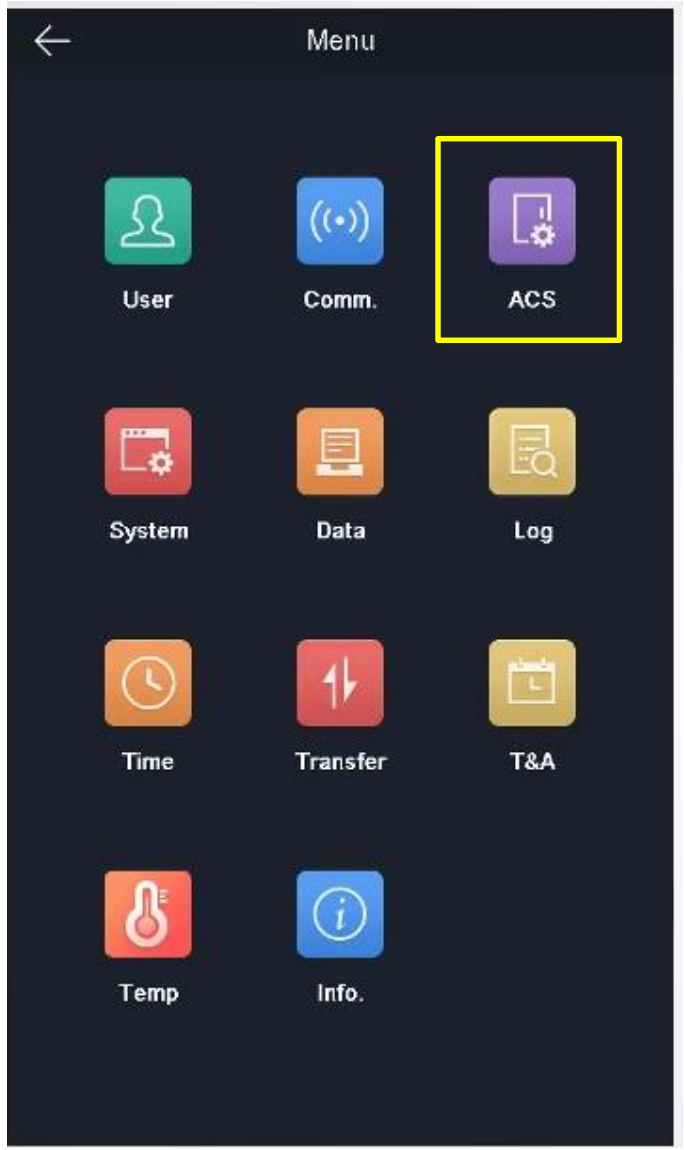
Note:

- The exported captured pictures are encrypted.



Employee ID	Card No.	QR code URL	Name	Time	Card Reader No.	checkinOrout	temperatureInfo	Overtemperature	With Mask
'	'			2020/4/23 14:16:26	1	no checkinOrout data	37	0	without mask
'	'			2020/4/23 14:16:53	1	no checkinOrout data	36.5	0	with mask
'3	'		Laxor Yue	2020/4/23 14:17:40	1	no checkinOrout data	36.8	0	without mask
'	'			2020/4/23 14:17:48	1	no checkinOrout data	36.5	0	with mask
'	'			2020/4/23 14:17:51	1	no checkinOrout data	36.4	0	with mask
'3	'		Laxor Yue	2020/4/23 14:18:12	1	no checkinOrout data	37.4	1	without mask
'	'			2020/4/23 14:18:16	1	no checkinOrout data	36.5	0	with mask
'	'			2020/4/23 14:18:20	1	no checkinOrout data	36.5	0	with mask

A LITTLE BIT MORE…



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  - iVMS-4200 Operation
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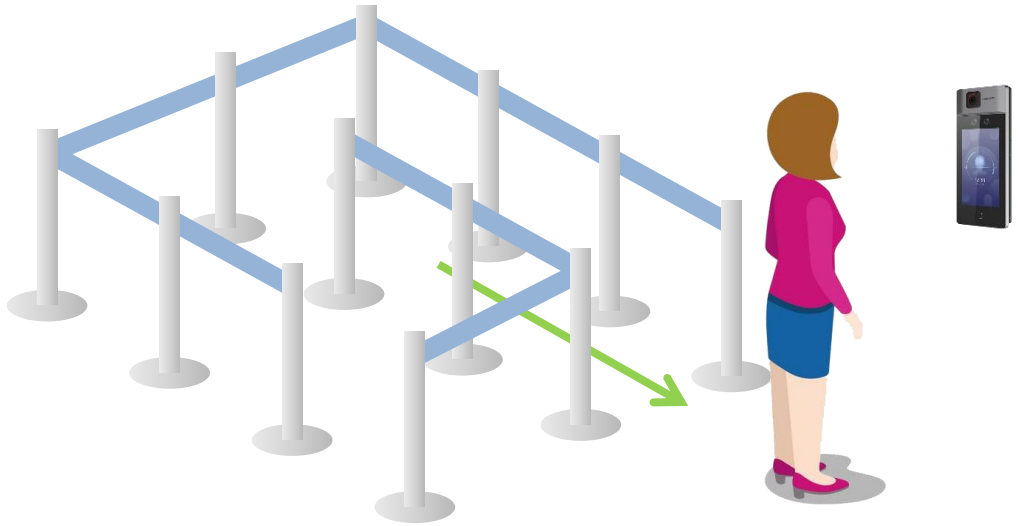
Operation -> Daily Use Recommendation

- After Thermal MinMoe is powered on, please wait for 90 minutes to warm up.
- Recommend to wait for 3 minutes indoors (including walking indoors) to get the most accurate result.
- It is better to take off the hat after entering the building to make **forehead temperature** normal.
- Make sure the forehead is visible when standing in front of the terminal.



- Recommended: walk from left to right to stand in front of terminal. So that the persons waiting in queue won't show up in terminal live view screen.

Thermal MinMoe + iVMS-4200

Basic Settings & Real-time monitoring

Operation -> iVMS-4200 Operation

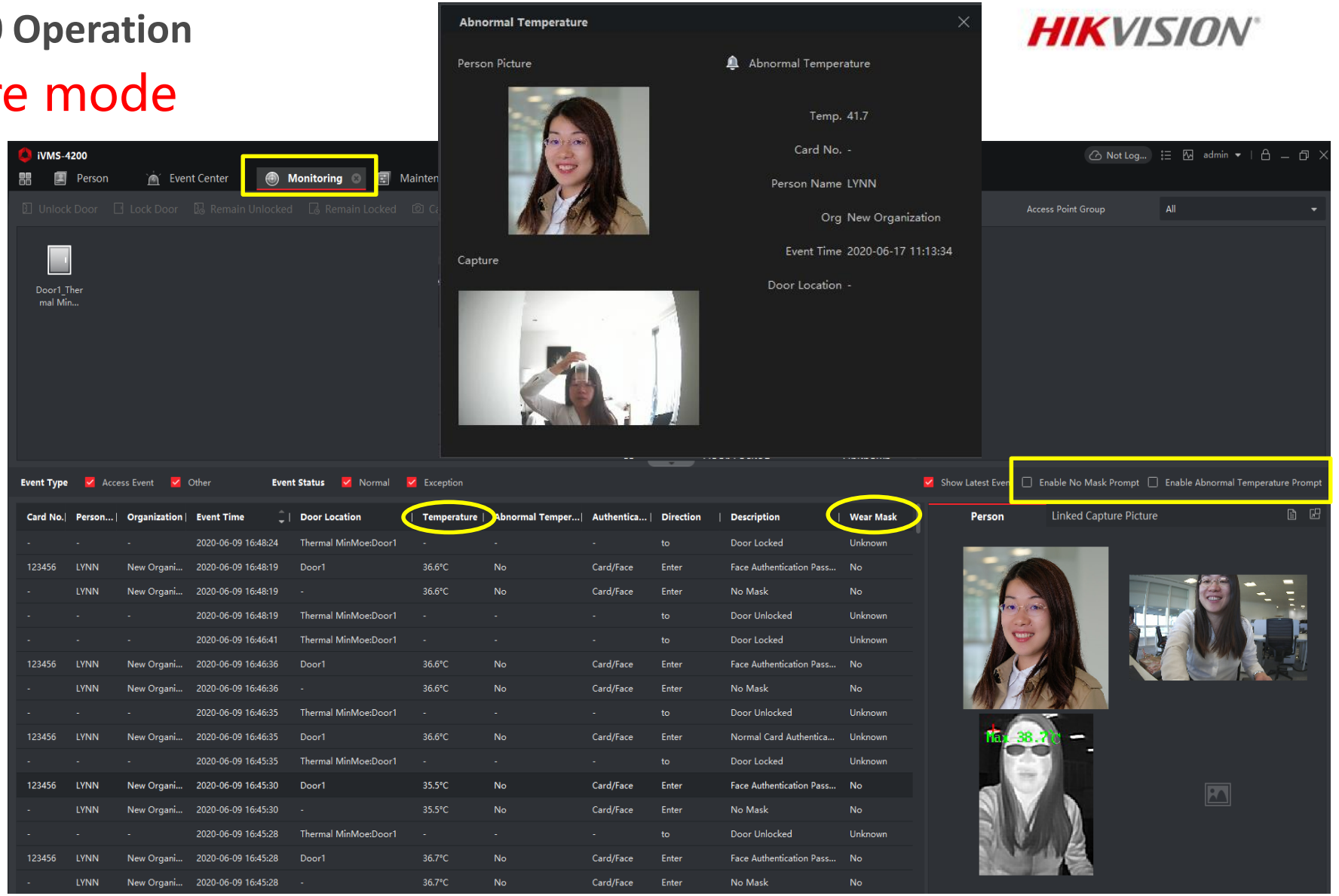
Face + Temperature mode

1. Add device.
2. Register person.
3. Apply person.

4. Check real-time events in the monitoring and receive quick pop up alarms

Note:

- When temperature is abnormal, device will trigger alarm output automatically, no need configuration. (Not able to disable)
- Device will upload normal image and thermal image both to iVMS-4200 after face is authenticated.
- No need storage server to save the captured images.

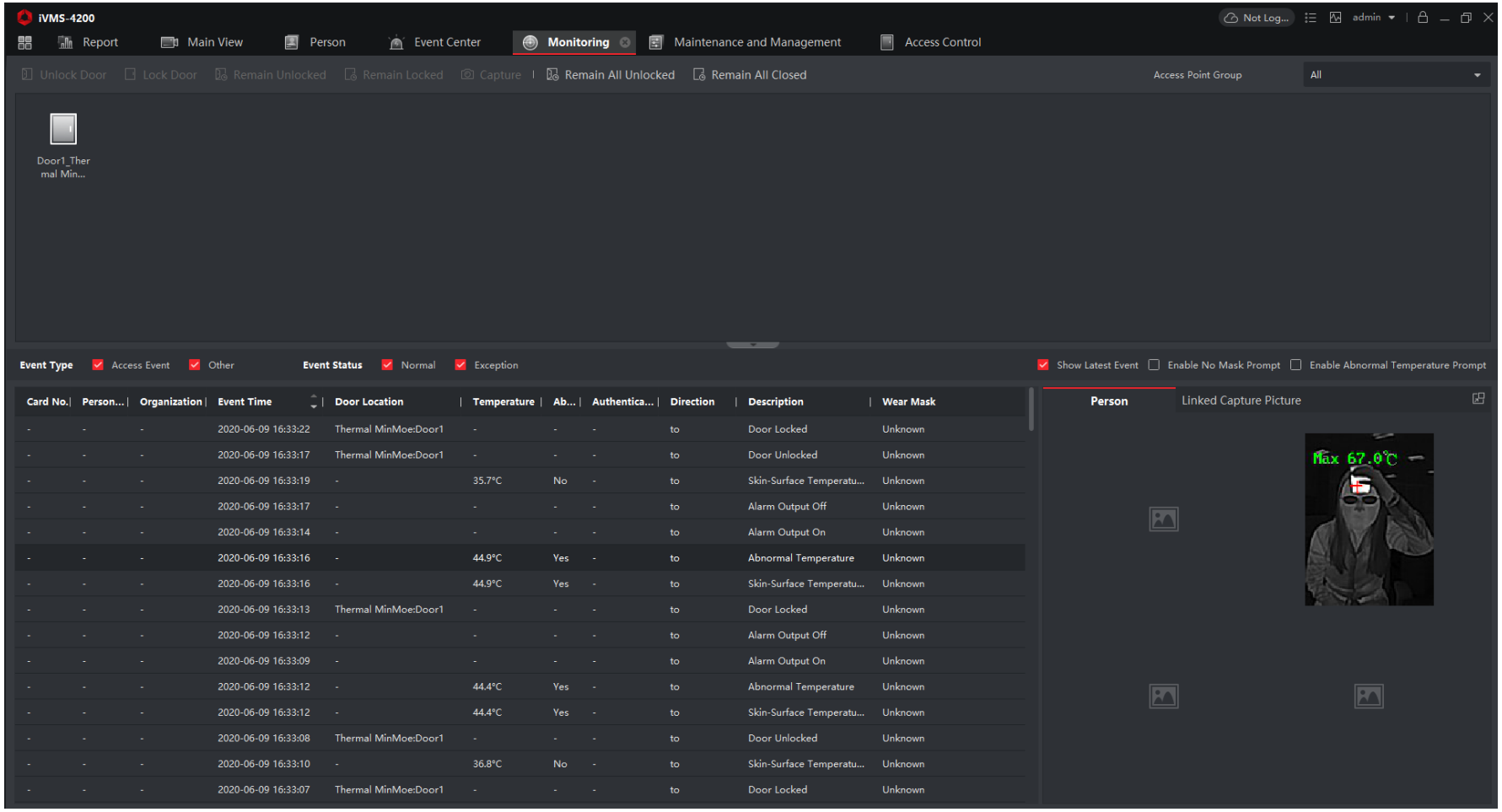


Temperature measurement only mode

4. Real-time events in monitoring page

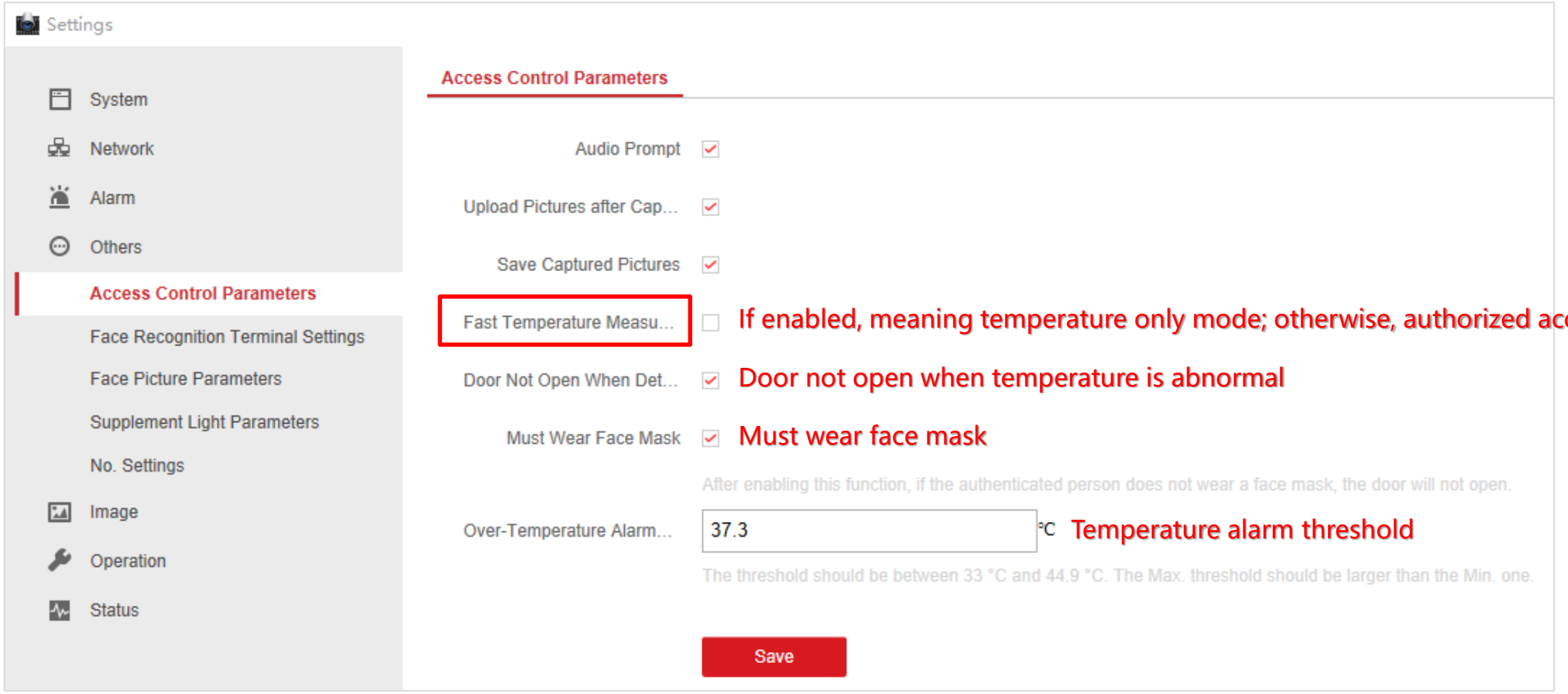
Note:

- In Temperature Measurement Only mode, only thermal image is taken for now.



5. Configure terminal parameters

Remote configuration → Others → Access Control parameters



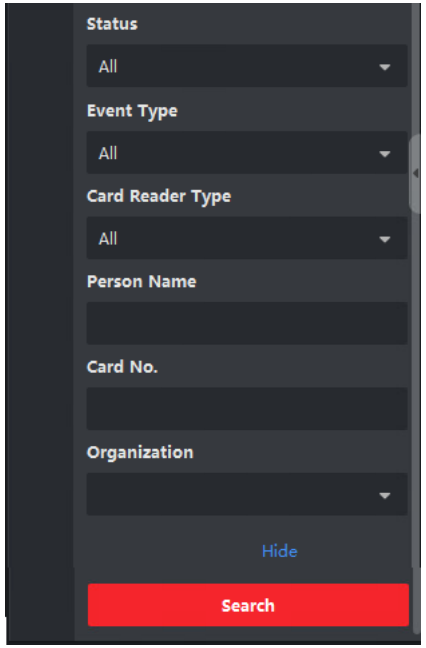
Search and Export Events

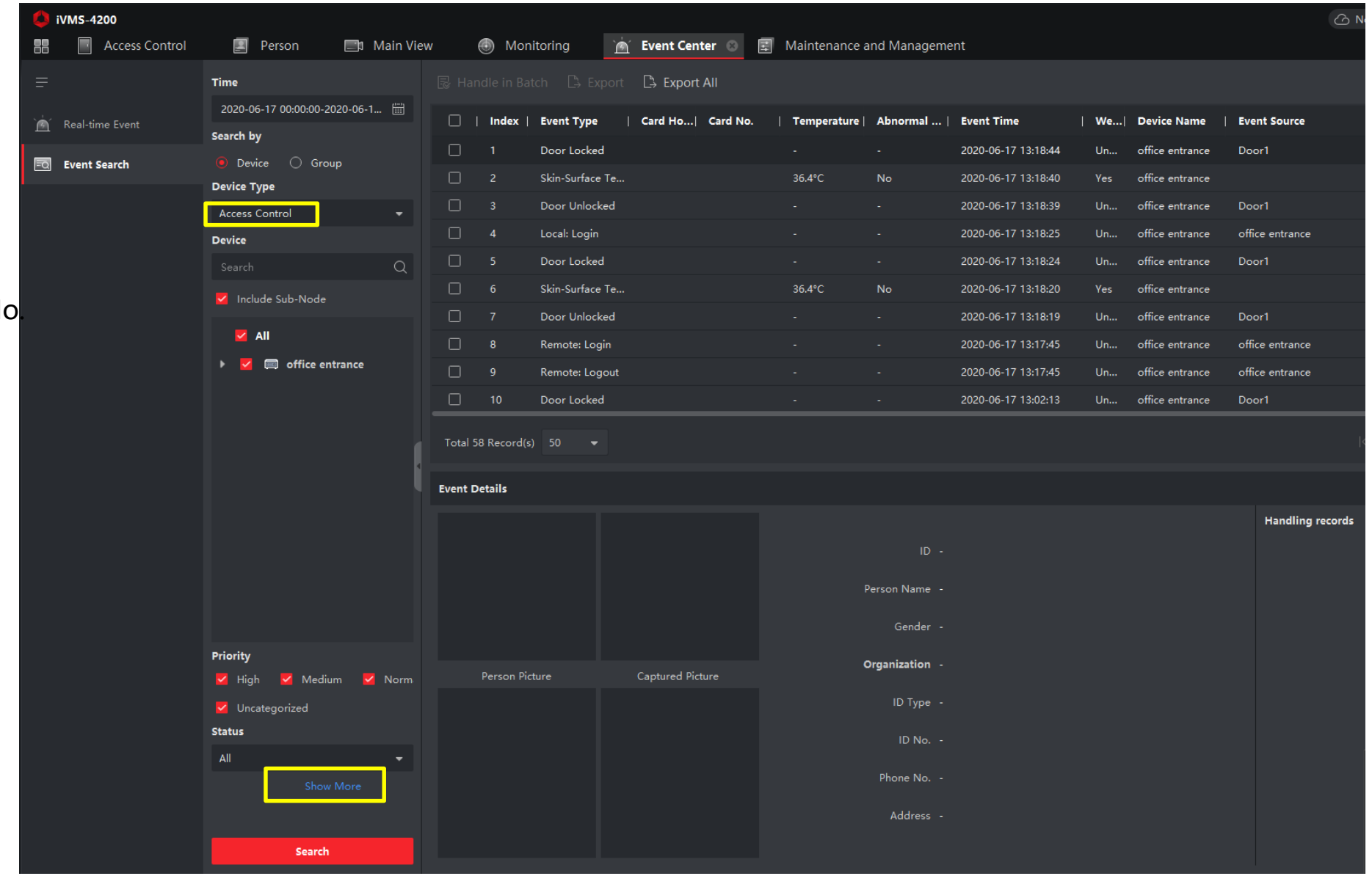
Operation -> iVMS-4200 Operation

6. Search history events

Note:

- Select device type as Access Control to get temperature information.
- Click Show More, to search event by person name, card No. etc.





Operation -> iVMS-4200 Operation

7. Export events

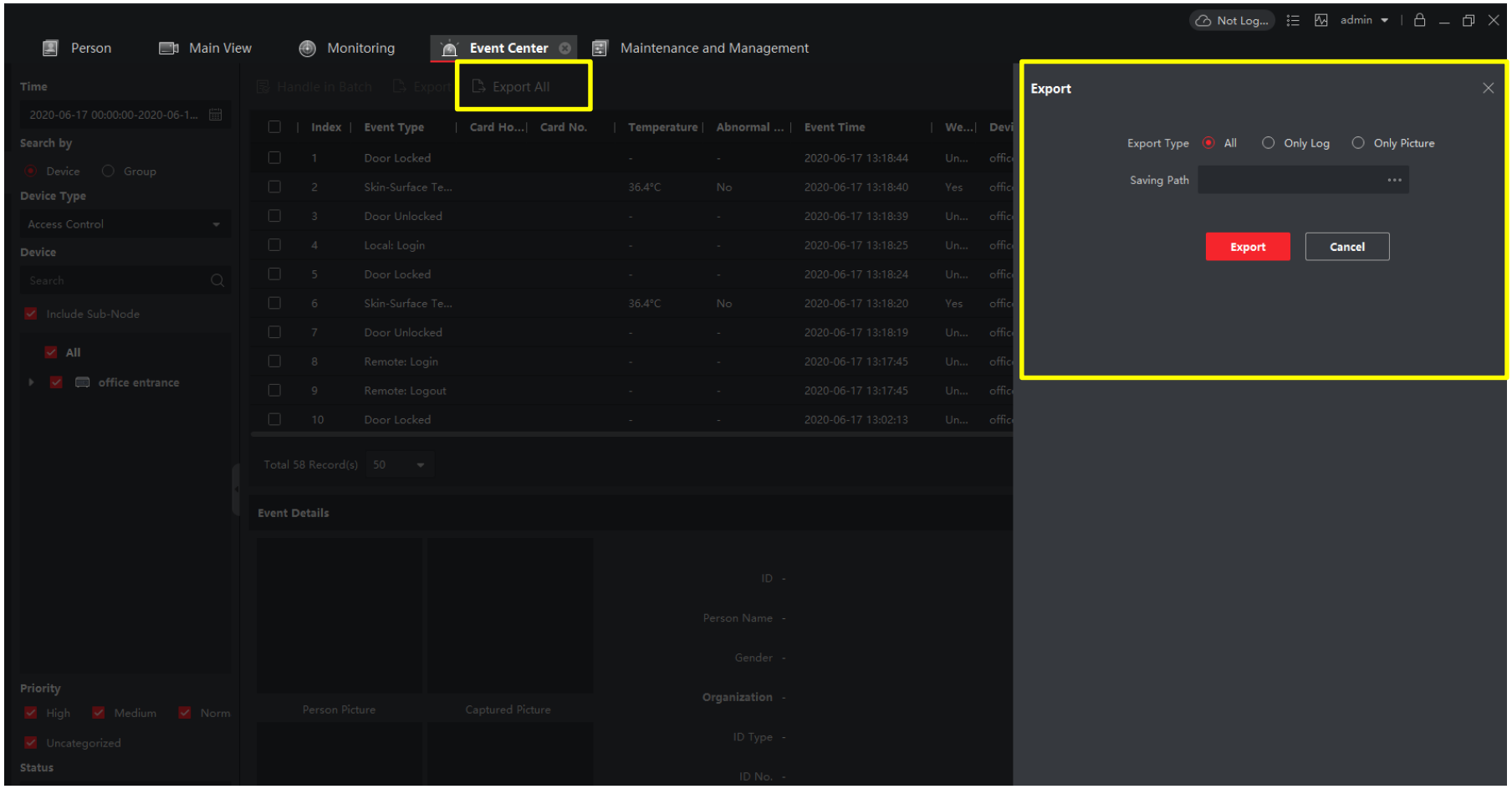
Exported sample file:

iVMS-4200 Exported Events

iVMS-4200 Exported Events.csv

Note:

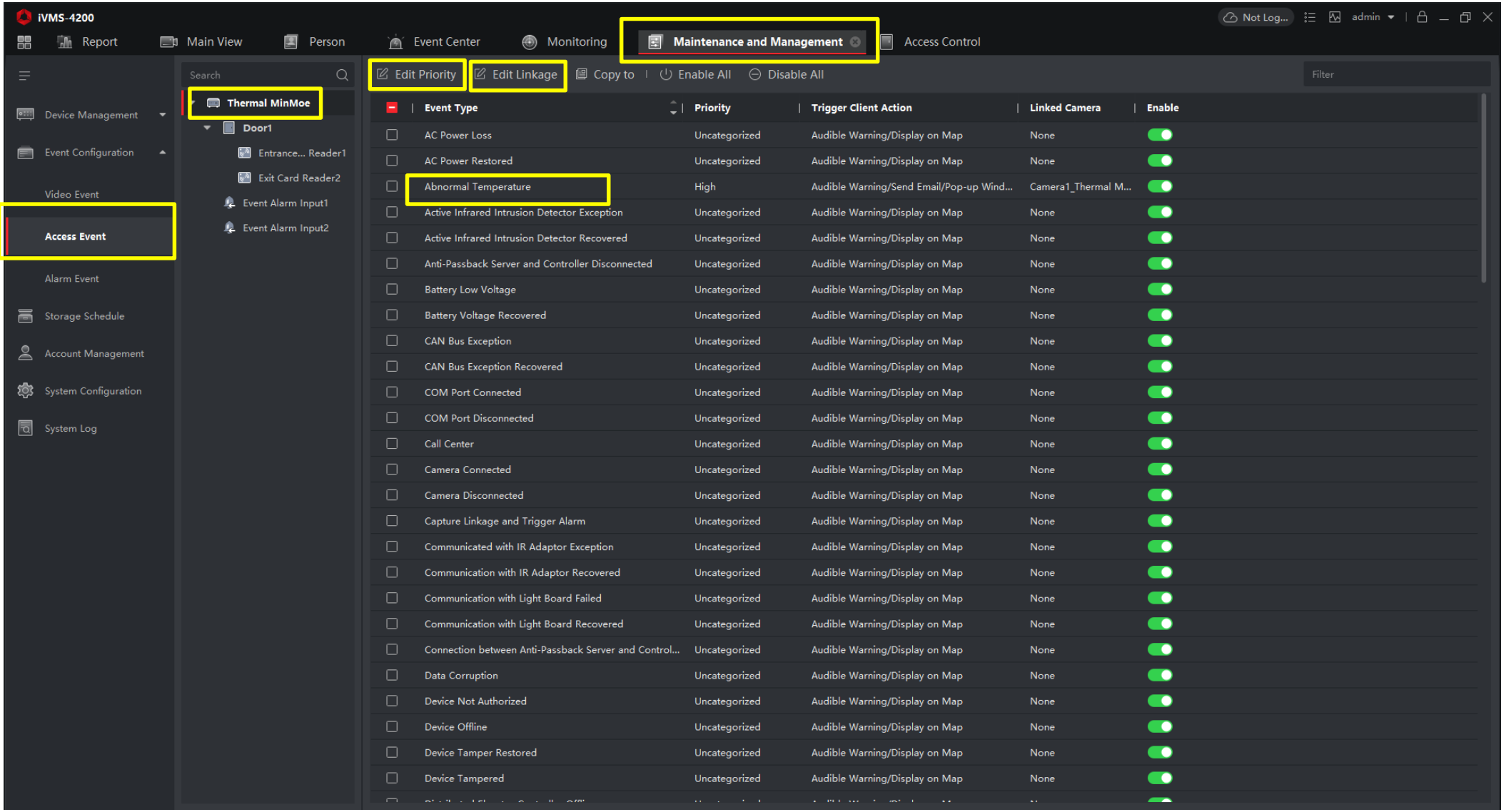
- Both images and temperature details can be exported.



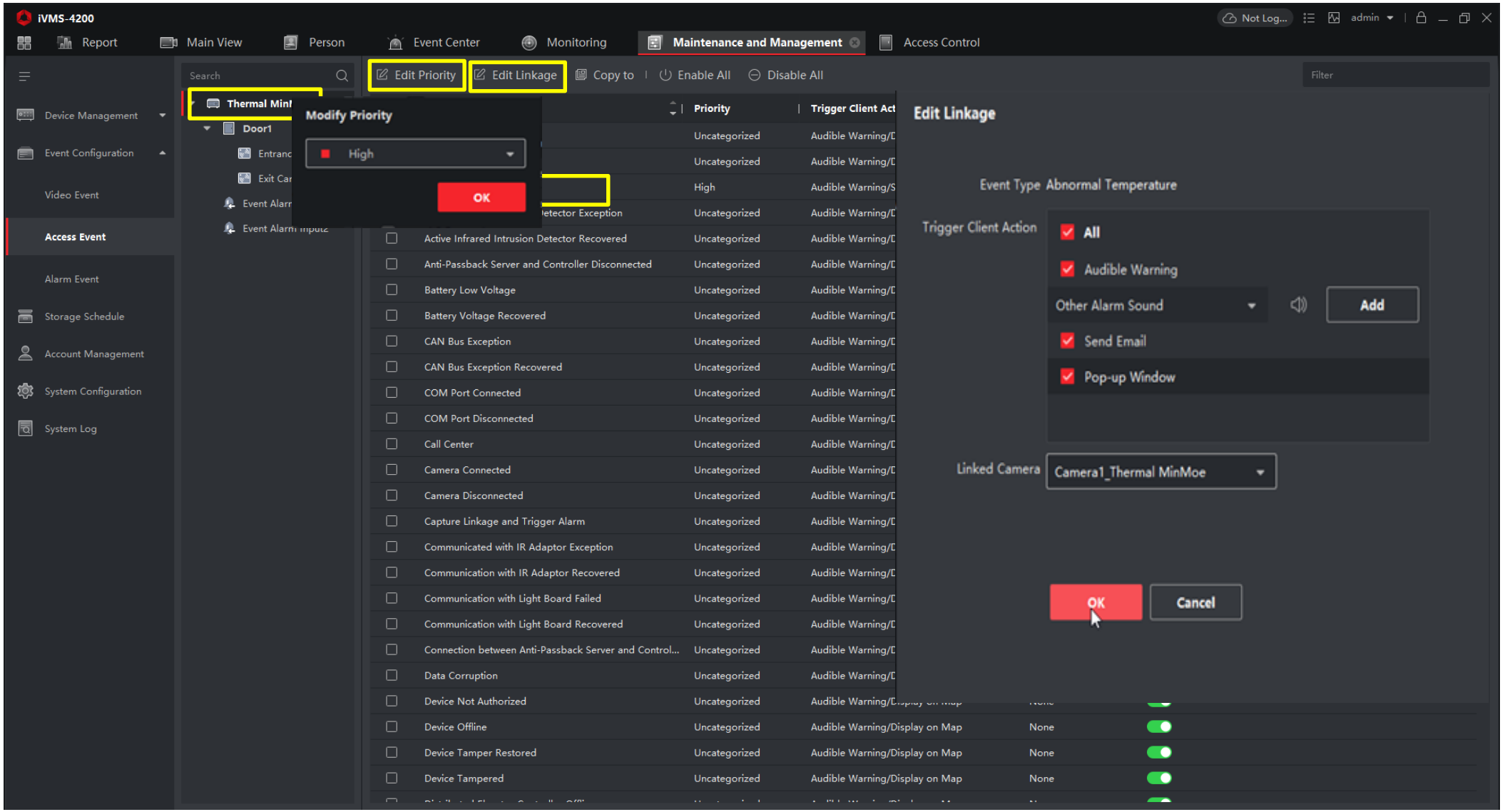
Captured Picture Path	Therr	Pictur	Card Hold	Card No.	Temperat	Abnormal	Event Time	Device Name	Event Source	Direction	MAC Addr	Authentication T	Card Type	Card Read	Priority
					-	-	28/05/2020 17:41	Thermal MinMoe	Thermal MinMoe	None		-	Invalid	Invalid	0
C:/Users/zhangshihong/Desktop/thermal pic/thermal records/BD6A71D1A45747E38EC59B441B127899_1.png			Lynn	'38131975	41.8°C	Yes	28/05/2020 17:41	Thermal MinMoe	Entrance Card Reader1	Enter		Card/Face	Normal Ca	Invalid	0
					-	-	28/05/2020 17:41	Thermal MinMoe	Thermal MinMoe	None		-	Invalid	Invalid	0
					-	-	28/05/2020 17:41	Thermal MinMoe	Thermal MinMoe	None		-	Invalid	Invalid	0
					-	-	28/05/2020 17:41	Thermal MinMoe	Door1	None		-	Invalid	Invalid	0
C:/Users/zhangshihong/Desktop/thermal pic/thermal records/393EC893F5F3479DBEE49A702B7365D7_1.png			Lynn	'38131975	44.5°C	Yes	28/05/2020 17:41	Thermal MinMoe	Entrance Card Reader1	Enter		Card/Face	Normal Ca	Invalid	0

Alarm handling on iVMS-4200

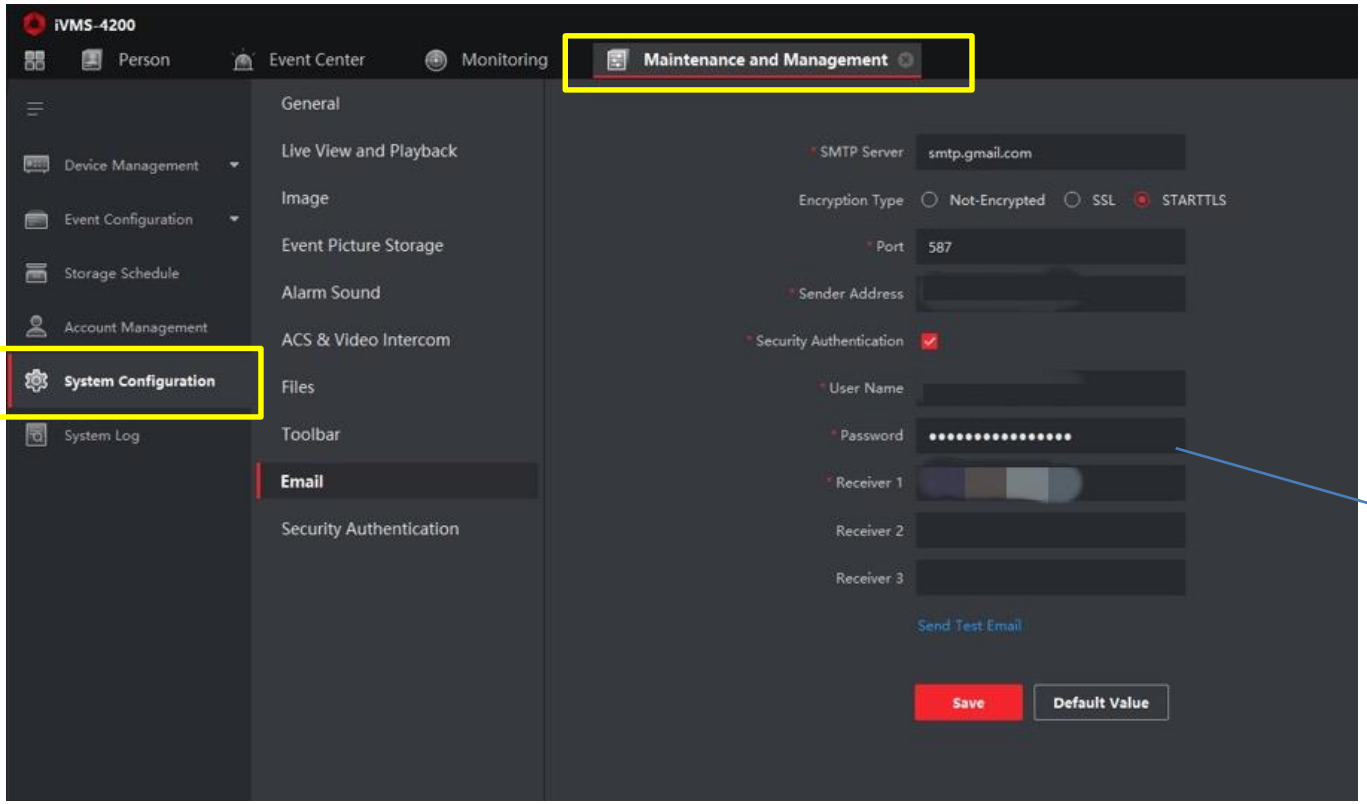
Operation -> iVMS-4200 Operation -> alarm linkage



Operation -> iVMS-4200 Operation -> alarm linkage

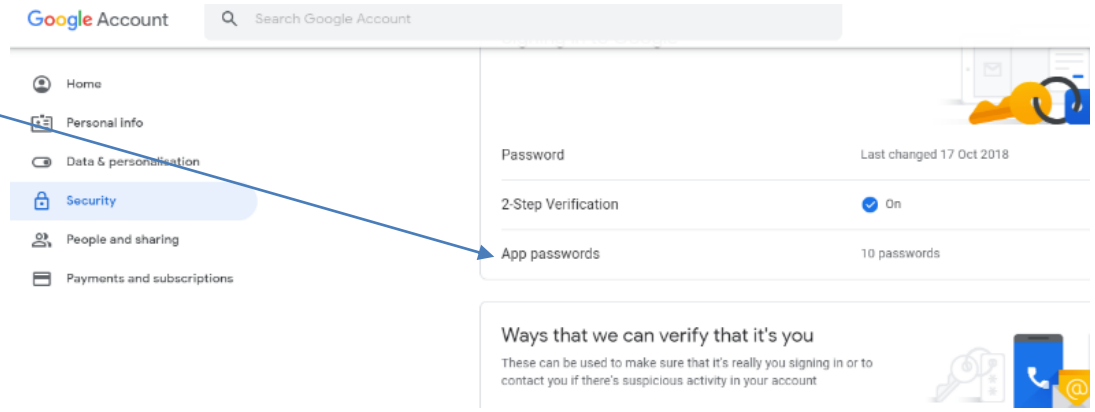


Operation -> iVMS-4200 Operation -> alarm linkage related email setting

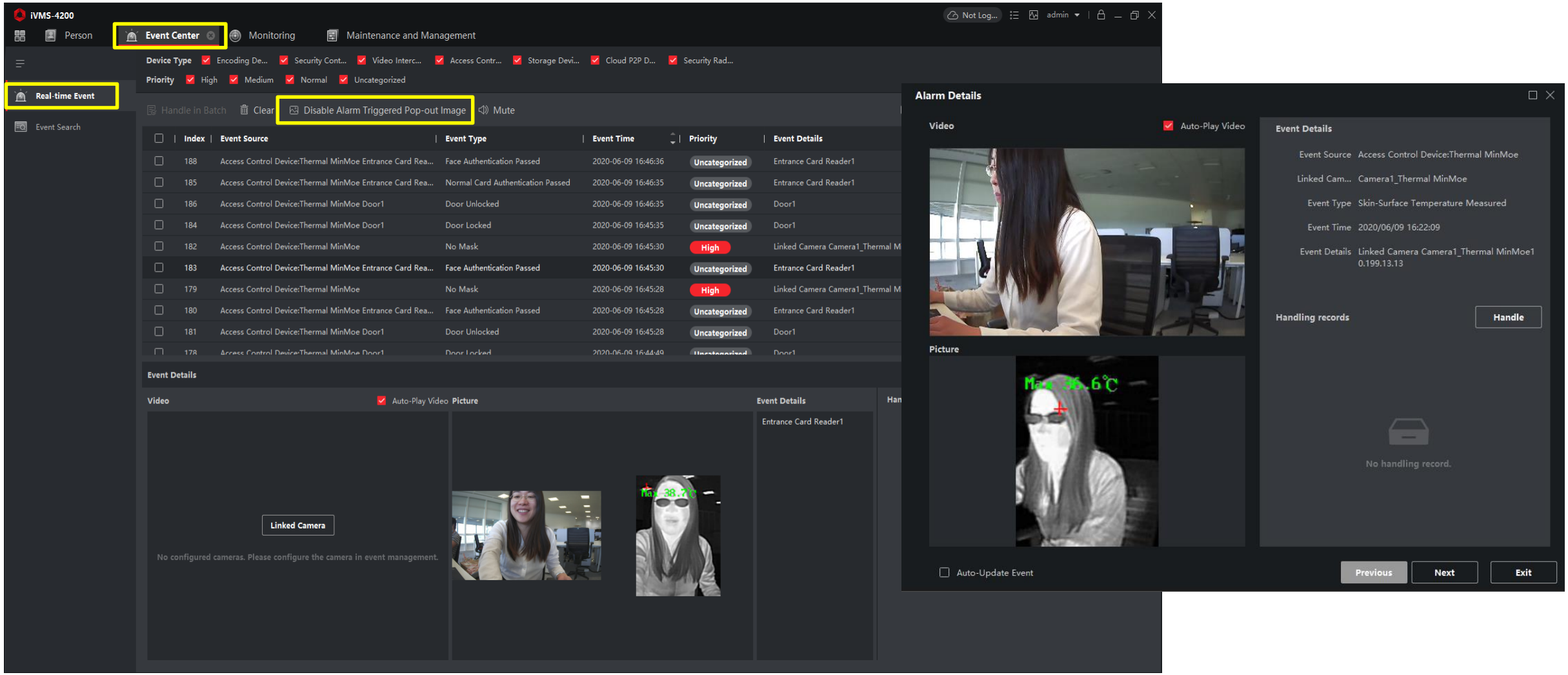


Abnormal Temperature
Yesterday at 17:27

Event Time: 2020-06-09 17:27:33
Event Source: Access Control
Device:Thermal MinMoe
Event Details: Linked Camera
Camera1_Thermal MinMoe
Person Name: LYNN
Abnormal Temperature: Yes
Wear Mask: No
Temperature: 44.4°C



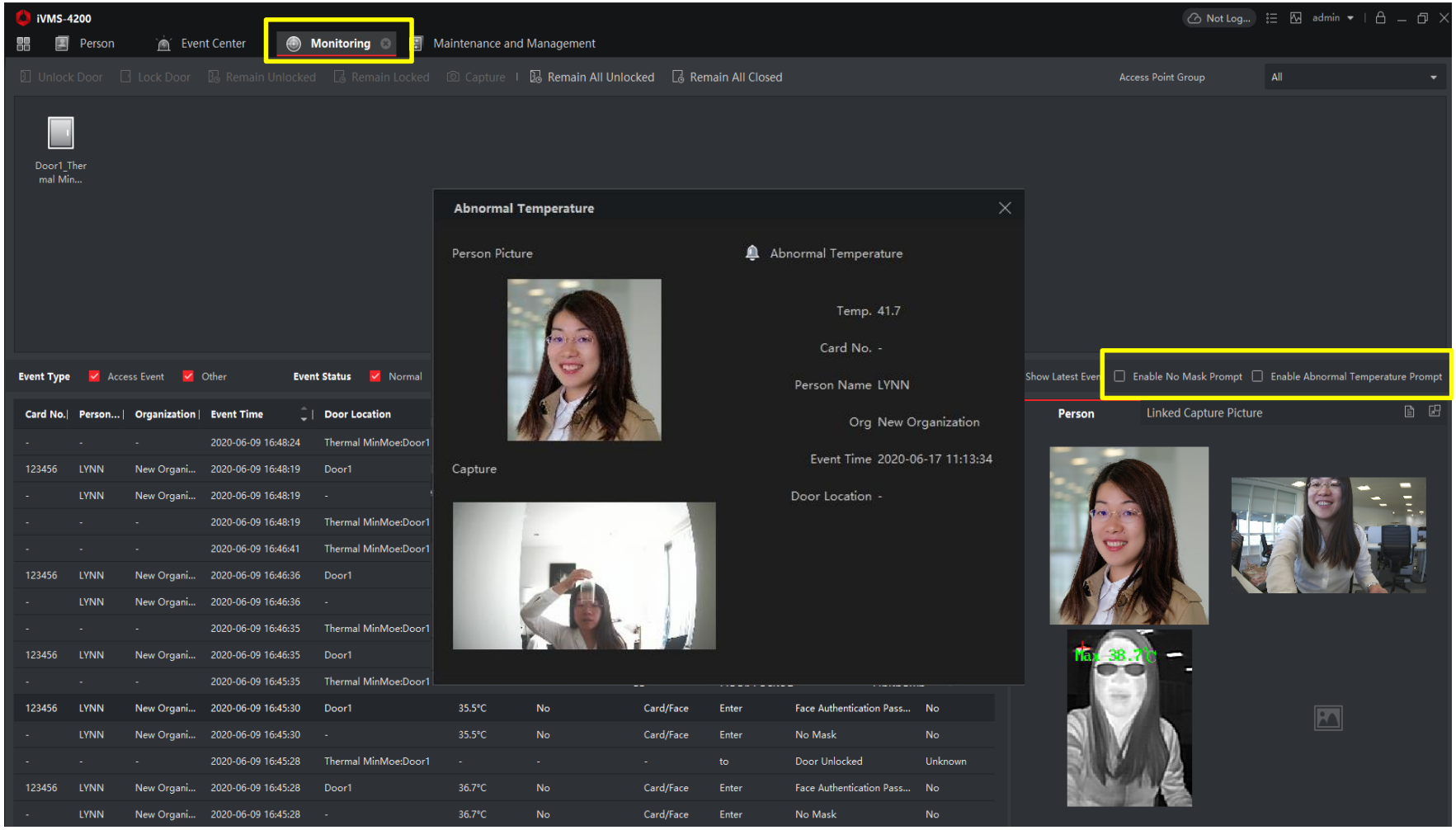
Operation -> iVMS-4200 Operation -> alarm pop up with more details



Other related event types:

- No mask
- Skin-surface temperature measured

Operation -> iVMS-4200 Operation -> quick alarm pop up

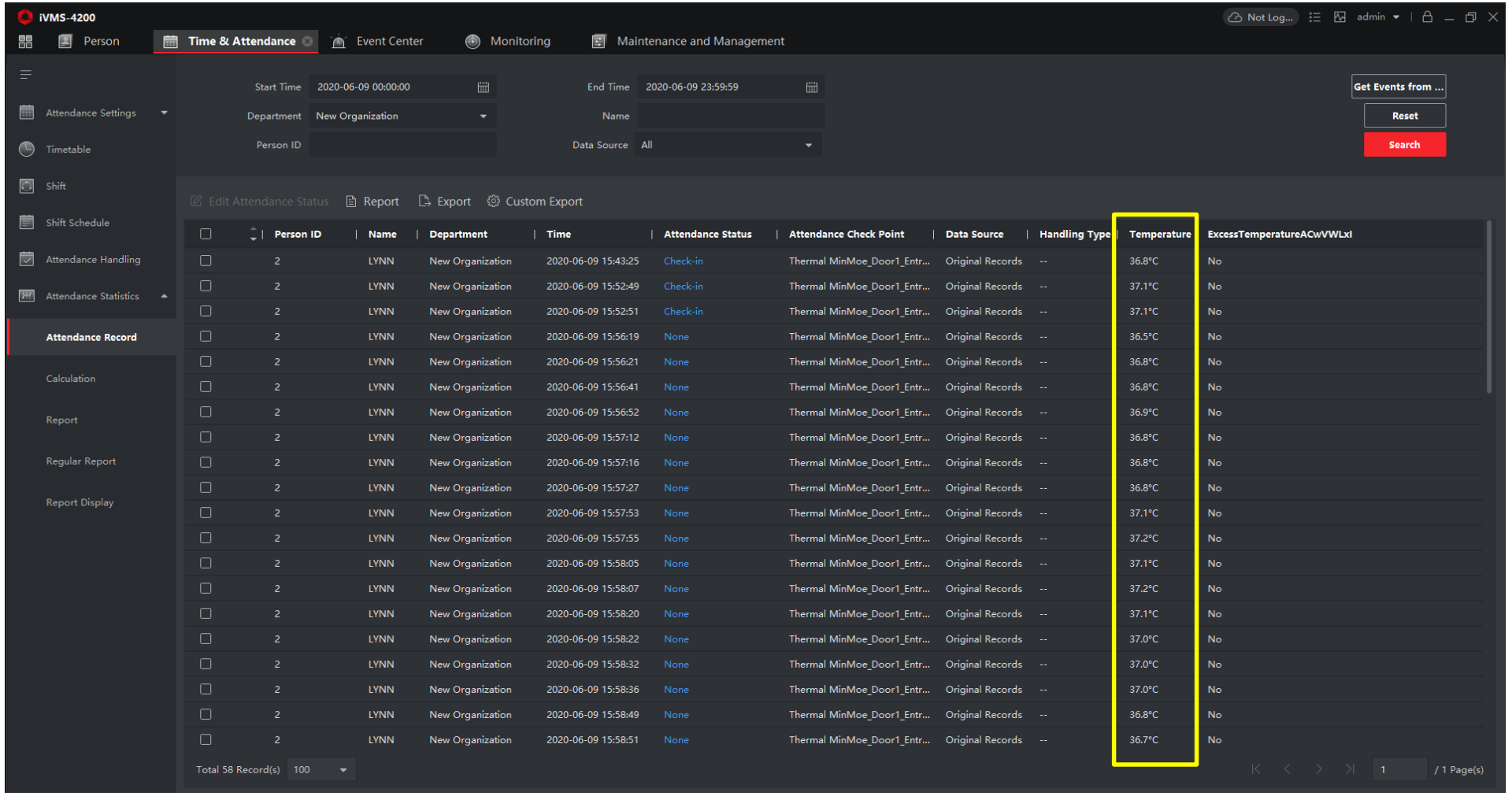


Others – T&A Records

Operation -> iVMS-4200 Operation -> T&A Records

Note:

- T&A rules need to be configured in advance.



Thanks

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