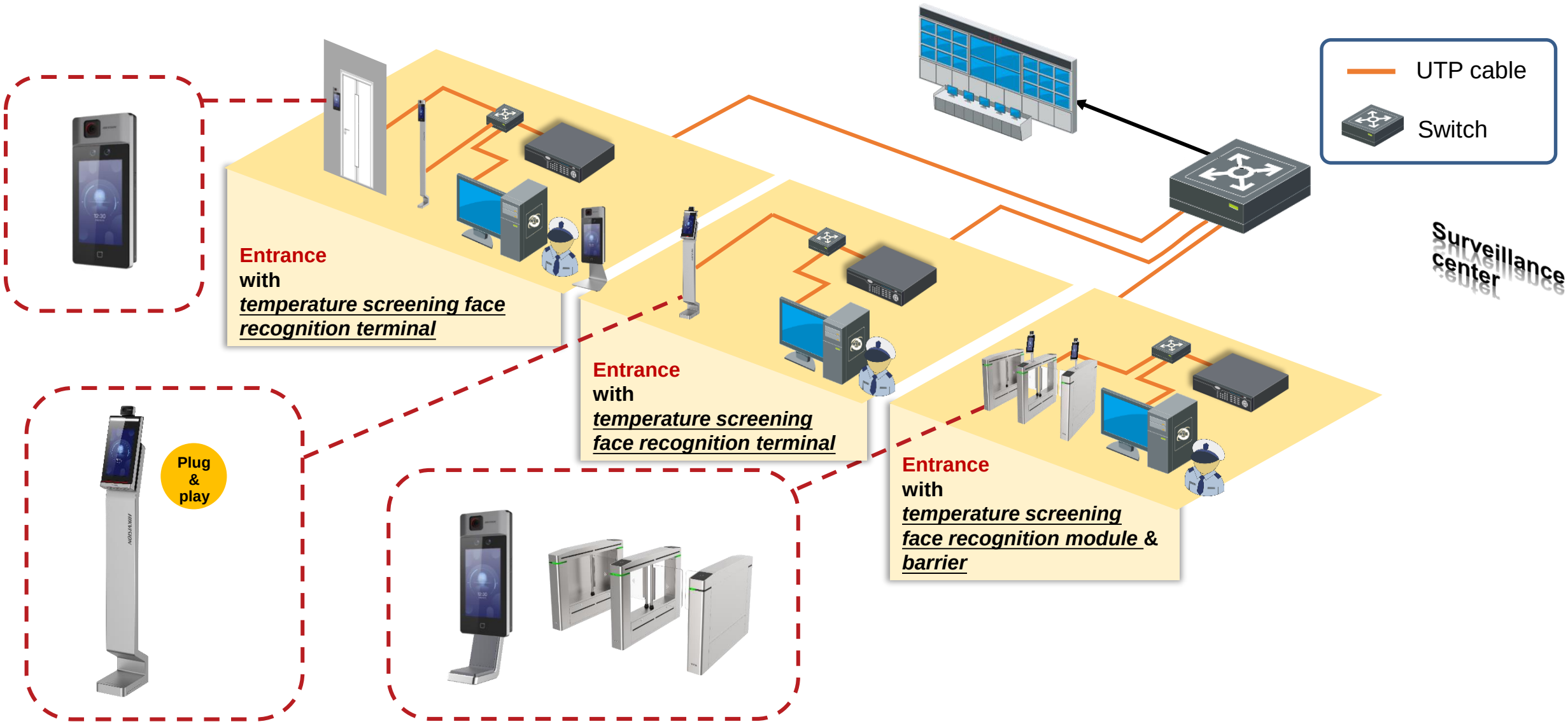
MinMoe Touch-free Temperature Screening Solutions

System Topology



Solution Introduction

Results display

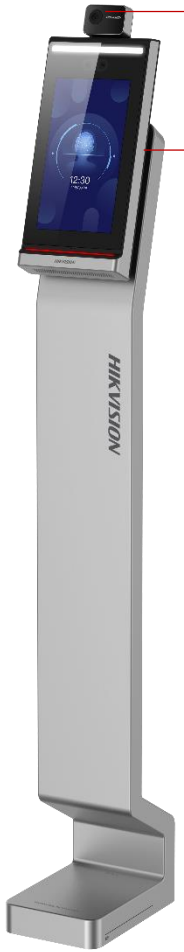
Thermographic module

7-inch touch screen

*(*Above display images are only for reference)*

Solution Introduction

Results display



Thermographic module

10-inch touch screen

*(*Above display images are only for reference)*

Products Introduction

Products Introduction - Highlights

MinMoe Temperature screening terminal

Flexible deployment
Supporting ***wall mounting*** and ***floor standing with mounting pole***.

Visualized temperature screening
7-inch touch screen.
Temperature screening with ***visional results*** and ***audio prompt.***

Mask detection
Supporting ***face mask wearing alert*** and ***forced mask wearing alert.***
Temperature screening with mask.

DS-K1T671TM-3XF

Thermographic technology
Measuring the temperature of ***forehead*** by thermographic after ***face detection.***

Touch-free temperature screening
Authentication distance: ***0.3-2 m***.
Authentication height: ***1.4-1.9m***.

High accuracy of temperature screening
Temperature range: ***30℃ to 45℃,***
Temperature accuracy: ***±0.5 ℃***.

*In order to obtain accurate temperatures, after the device is powered on, **wait for 90 minutes** to allow device to warm up.

Products Introduction - Highlights

Temperature screening face recognition terminal

Plug & play

Rapid deployment.
Free of wiring, installation and configuration.

Enhanced verification performance

10.1-inch touch screen
Face recognition verification duration ***less than 0.2s***.
Supporting ***face anti-spoofing.***

Mask detection

Supporting ***face mask wearing alert*** and ***forced mask wearing alert.***

DS-K5604A-3XF/V

Various verification methods

Supporting ***fast temperature measurement*** and ***face recognition with temperature screening***.

Long term temperature screen

Authentication distance: 0.3-2 m.

Dedicated for temperature screening

Temperature range: ***30 ℃ to 45 ℃,***
Temperature accuracy: ***±0.5 ℃***.

Products Introduction

Products Overview

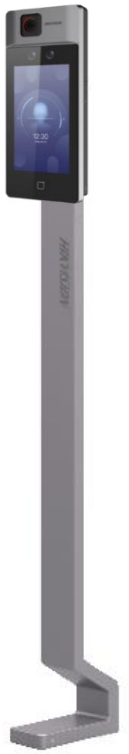
	DS-K5604A-3XF/V	DS-K1T671TM-3XF
	Plug & play	
LCD screen	10.1 inch	7 inch
Face capacity	50,000	50,000
Card capacity	N/A	50,000 M1 cards
Thermal imaging resolution	120 x 160	120 x 160
Temperature range and accuracy	30-45° C (±0.5 ° C)	30-45° C (±0.5 ° C)
Authentication Distance	0.3-2m	0.3-2m
Mask detection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

Products Introduction

Products comparison

- **Fast deployment, plug and play**
- **10.1-inch LCD touch screen**
- **Slightly angled**
- **No card reader**

DS-K5604A-3XF/V



- **Require installation**
- **7-inch LCD touch screen**
- **Vertical/angled**
- **With card reader**

DS-K1T671TM-3XF

Function Introduction - Terminal

Temperature Detection
Also for face with mask

Main application
- Self check application

Face recognition

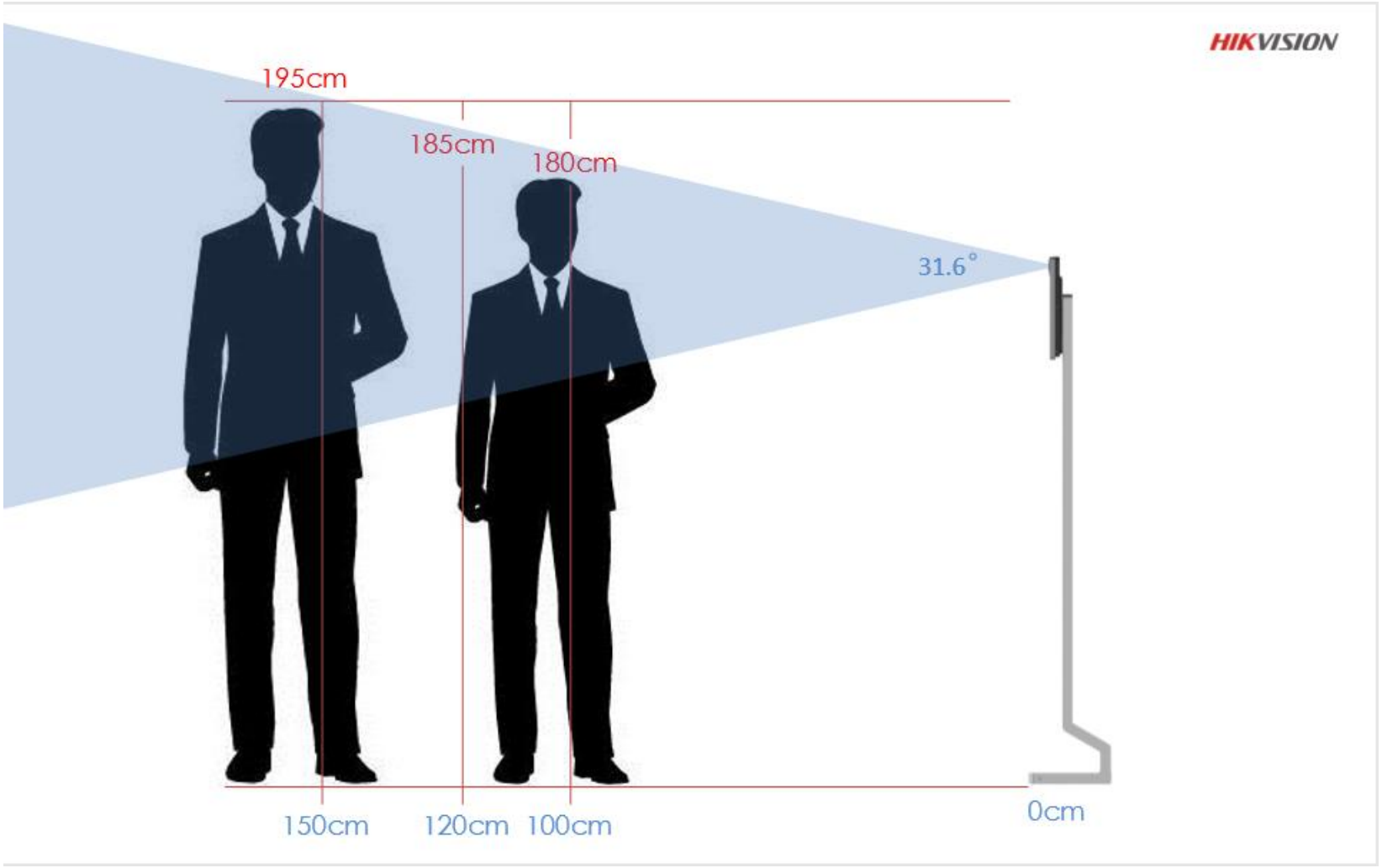
Disabled by default

Mask Detection
Must wear mask
Reminder to wear mask

Disabled by default

Products Introduction

Installation Reference



Products Introduction – Thermographic Technology

Comparison between thermographic and thermopile technology

Thermopile technology

Thermographic technology

Summary:

Measuring the maximum temperature value in a fixed small area.

Since the thermopile itself cannot detect faces, it cannot ensure that face temperature is measured, or whether it was the authenticated person.

Summary:

Generating thermodynamic diagram by measuring the temperature of all the objects in the scale.

The thermographic module detecting faces by AI algorithm, and extracting the temperature of forehead.

Products Introduction – Thermographic Technology

Comparison between thermographic and thermopile technology

Type	Thermopile	Thermographic technology	Comments
Resolution	32X32	120X160	——
Measurement distance	0.3m~0.5m	0.3m~2.0m(depends on focus of device)	——
Measurement scale	Small, fixed area of the screen	Large scale, any area within the screen	
Adaptability	Asking for high adaptability of personnel	No need deliberate cooperating, except for entering the screen	
Efficiency	5 s/person	1 s/person	
Measurement accuracy	Detecting only the highest temperature in the fixed area.	Face detection tracking, guaranteed that the measurement is the temperature of the person's forehead.	
Labor cost	Requiring the management personnel to participate in the whole guide, the labor cost is high.	Requires little involvement of managers, the labor cost is low.	

Thermopile:

- Limited measurement scale,
- Low accuracy and efficiency of temperature screen.

Thermographic:

- Bigger measurement scale,
- AI algorithm for face detection,
- High accuracy and efficiency of temperature screen.

Note: Non-medical device.

Products Introduction - Terminal

Device Model	SAP Code	Description	Picture
DS-K1T671TM-3XF	302917210	• 7-inch LCD touch screen • Thermographic technology, temperature range: 30-45℃, accuracy: ±0.5℃; • Temperature screening of forehead • Authentication Distance: 0.3-2.0 m, height:1.4-1.9m • Temperature screening with visional results and audio prompt. • Built-in Mifare card reading module; • Max.50,000 faces capacity , Max.50,000 cards;	
DS-KAB671-B (Optional)	305700583	• The mounting pole for DS-K1T671TM-3XF • Material: SPCC • Weight: 6.7 kg (14.8 lb.) • Dimension (W × H × D): 98.5 mm × 1342 mm × 225 mm (3.9" × 52.8" × 8.9")	
DS-DM0701BL (Optional)	190167872	• Table bracket for DS-K1T671TM-3XF Dimension (W × H × D): 192 mm × 195 mm × 353 mm	
DS-KAB607-B1 (Optional)	305700602	• Turnstile bracket for DS-K1T671TM-3XF	

Products Introduction - Terminal

Device Model	SAP Code	Description	Picture
DS-K5604A-3XF/V	302917211	• Plug &play • 10.1-inch LCD touch screen, 2 Mega pixel wide-angle lens • Max.50,000 faces capacity Temperature range: 30-45℃, accuracy：±0.5℃; • Supports 6 attendance status, including check in, check out, break in, break out, overtime in, overtime out • Face Recognition Duration(1:N) ≤0.2s • Authentication Distance: 0.3m ~ 2m	Hot

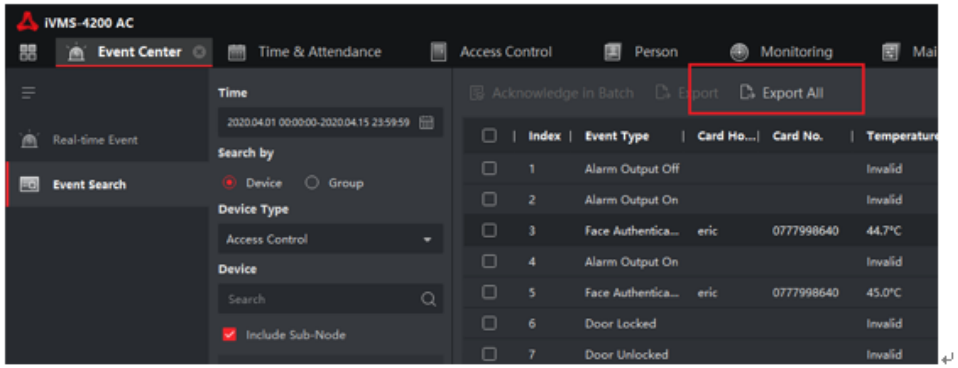
Software

Free

iVMS-4200 / iVMS-4200 AC Client Special Version

Hikcentral Professional Special Version

Products Introduction - iVMS4200



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Captured F	HeatPictur	VisPictureP	Card Holde	Card No.	Temperatu	Abnormal	Event Time	Device Nar	Event Sour	Direction	MAC Addr	Authentica	Card Type	Card Read	Priority	Status
2						Invalid	-	#######	671	671	None		-	Invalid	Invalid	0	0
3						Invalid	-	#######	671	671	None		-	Invalid	Invalid	0	0
4	D:/01 All Materials of Fever Scree			eric	'07779986	44.7°C	Yes	#######	671	Entrance C	Enter		Card/Face	Normal Ca	Invalid	0	0
5						Invalid	-	#######	671	671	None		-	Invalid	Invalid	0	0
6	D:/01 All Materials of Fever Scree			eric	'07779986	45.0°C	Yes	#######	671	Entrance C	Enter		Card/Face	Normal Ca	Invalid	0	0
7						Invalid	-	#######	671	Door1	None		-	Invalid	Invalid	0	0
8						Invalid	-	#######	671	Door1	None		-	Invalid	Invalid	0	0
9	D:/01 All Materials of Fever Screening Solution/03 Feve					35.5°C	No	#######	671	Entrance C	Enter		Card/Face	Normal Ca	Invalid	0	0
10						Invalid	-	#######	671	671	None		-	Invalid	Invalid	0	0
11						Invalid	-	#######	671	671	None		-	Invalid	Invalid	0	0
12	D:/01 All Materials of Fever Screening Solution/03 Feve					42.2°C	Yes	#######	671	Entrance C	Enter		Card/Face	Normal Ca	Invalid	0	0
13	D:/01 All Materials of Fever Screening Solution/03 Feve					34.4°C	No	#######	671	Entrance C	Enter		Card/Face	Normal Ca	Invalid	0	0
14						Invalid	-	#######	671	671	None		-	Invalid	Invalid	0	0
15						Invalid	-	#######	671	671	None		-	Invalid	Invalid	0	0
16						Invalid	-	#######	671	671	None		-	Invalid	Invalid	0	0
17						Invalid	-	#######	671	671	None		-	Invalid	Invalid	0	0

iVMS-4200 / iVMS-4200 AC Client

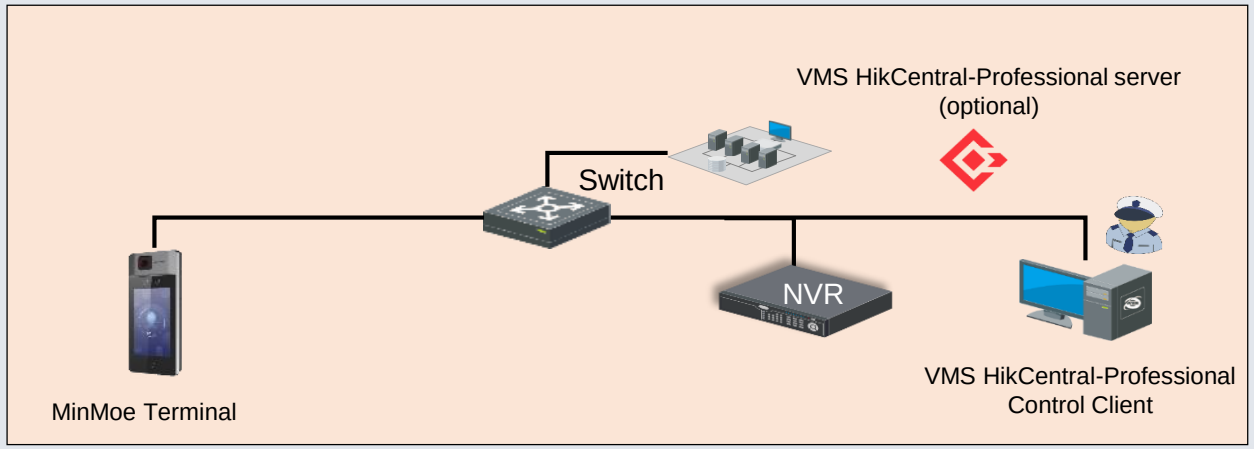
Special Version

- Receive real-time events with temperature records;
- Receive temperature exception alarm;
- Event search and export

Products Introduction - Hikcentral

Solution Introduction

- Long-term Temperature screening with access control for building related projects
- Indoor space
- Centralized management for access control with temperature records



Hikcentral Professional Special Version

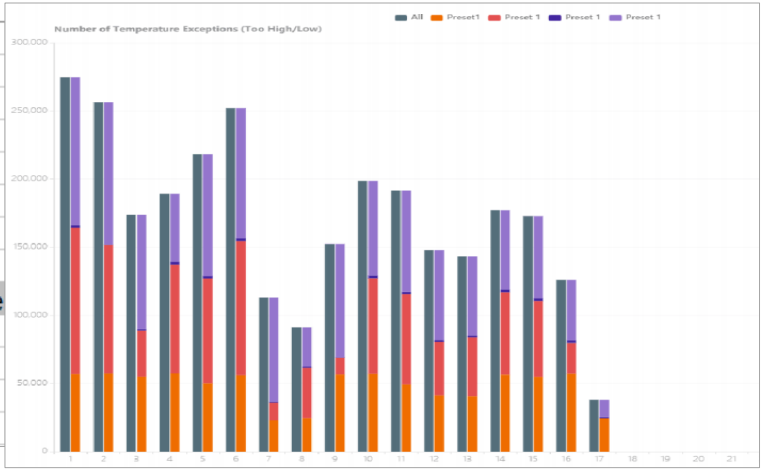
① Exportable access records with temperature statistics
② Handling real-time Temperature alarms and tracing back records
③ Centralized management for multiple screening sites

Batch Access Verification Log

Basic Information

Export Time: 2020/02/10 15:01:28
Exported by: admin
Export Content: Name, ID, Card Number, Person Group, Device Time, Access Point, Access Result, Access Mode, Body Temperature
Report Time: 2019/10/22 00:00:00 - 2019/10/22 23:59:59
Total Number: 86

Name	ID	Card Number	Person Group	Device Time	Access Point	Access Result	Access Mode	Body Teperature
John Johnson	34564352	1232134341	Sales	2019/10/22 20:37:41	605Door 01_Cardreader 01	Succeed	Face Recognition	36.5℃
Black Griffin	34234913	2332123343	Sales	2019/10/22 19:56:34	605Door 01_Cardreader 01	Failed	Face Recognition Failed	36.3℃
Tim Duncan	89218471	2439278394	Sales	2019/10/22 19:53:22	605Door 01_Cardreader 01	Failed	Temperature higher than threshold	37.7℃
Roger Federer	21231234	2456457545	Manager	2019/10/22 18:36:43	605Door 01_Cardreader 01	Succeed	Face Recognition	36.7℃

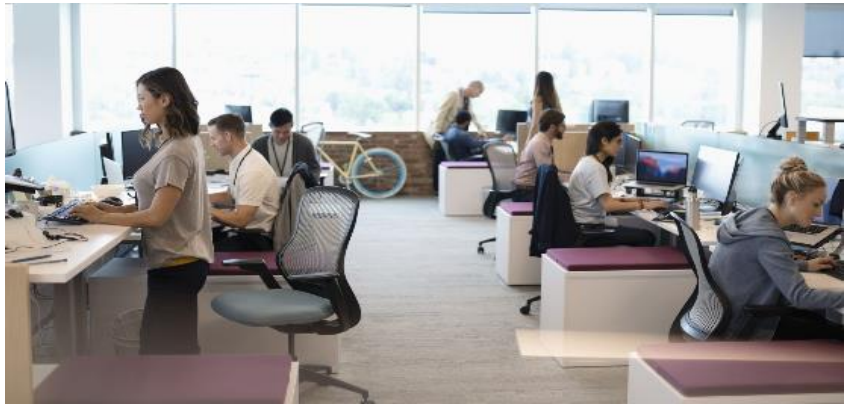


Application Scenarios

Application Scenarios

Entrance of factories

Entrance of schools



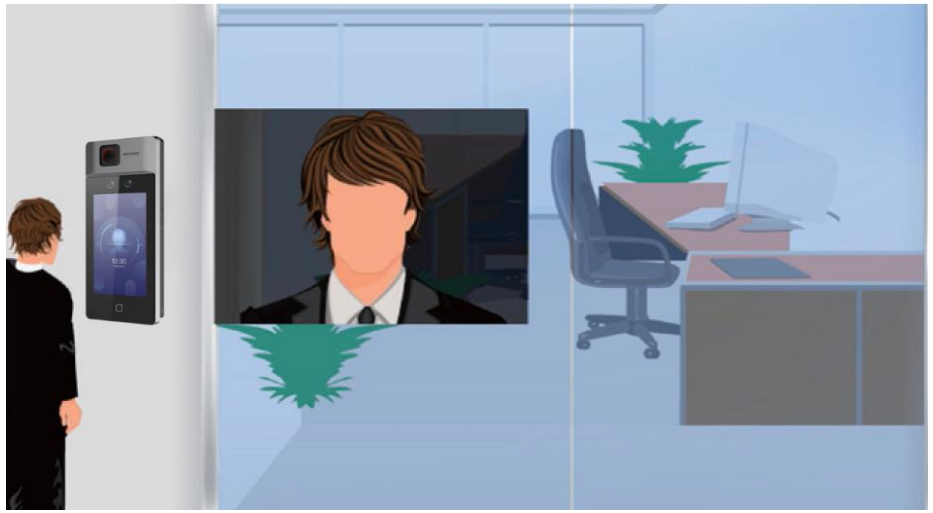
Entrance of offices

Entrance of retails

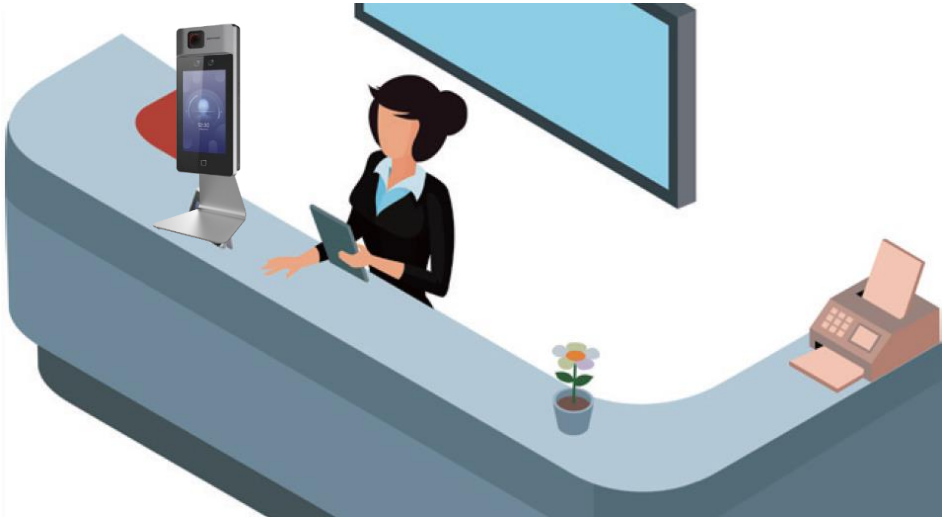
Note: Indoor installation is recommended for accuracy of temperature measurement (without wind).

Flexible Application

Wall mount and desktop placement



Wall mount



Desktop placement

Flexible Application

Turnstile mount & floor stand

Turnstile mount

Floor stand

Flexible Application

– SELF Temperature check only

Connection: only power supply required, network cable is optional

– Access control with temperature check

Connection: power supply, network cable, connection to locks.

Access control with temperature check

Single door scenarios

System Topology

Emergency Break Glass

iVMS-4200AC

HikCentral Pro

Multiple doors scenarios

System Topology

MinMoe face terminal

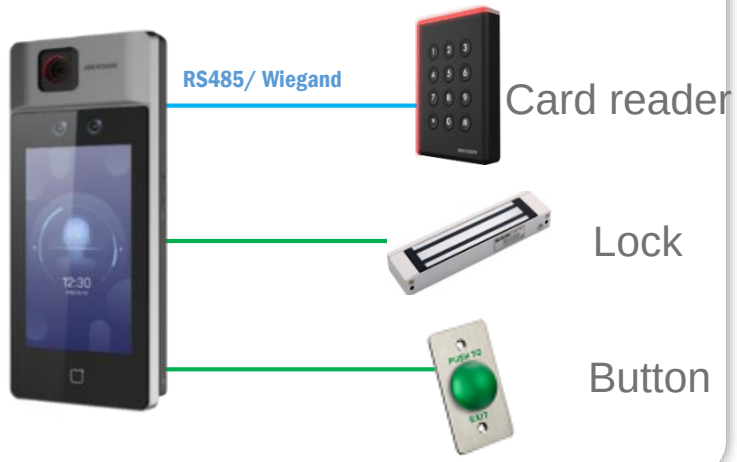
Multi-biometric enrollment

iVMS-4200 AC
OR
HikCentral Pro

Access Controller

Single door scenarios

System Topology



Emergency Break Glass

iVMS-4200AC

HikCentral Pro

Thanks

See far, go further