MinMoe Temperature Screening Face Terminal Installation Guide

Date	Content	Person	Version
2020/04/26	Create	Morgen	1.0
2020/06/16	Modify (iVMS4200 V3.3.0.4)	Morgen	1.1
2020/08/12	Add base installation method	Morgen	1.2
2020/09/14	Add picture for connector installation	Morgen	1.3

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1. System structure & Function description

This solution is designed to control the entrance and exit of office building, factory, cell and so on through temperature measurement and face verification, and the event can be managed and monitored on iVMS-4200 client software or HikCentral Professional platform.



Structure for access control & temperature screening system

• Temperature screening thermographic camera mainly performs rapid preliminary screening by measuring the temperature of the human skin-surface. If the temperature is found to exceed the normal range, medical temperature measurement equipment should be used to conduct secondary screening and confirmation of suspicious personnel. Because the facial skin is exposed to the air and affected by the ambient temperature and the evaporation of sweat, there will be some changes in the skin-surface temperature. It is recommended to wait for 3 to 5 minutes and wait for the body surface temperature to stabilize.

2. Installation process



3. System implementation considerations

3.1 Site survey precautions

- It is not recommended for outdoor use. It is recommended to install in indoor closed, constant temperature, no wind (including natural wind, air conditioning wind, etc.) and no direct sunlight.
- For indoor use, the indoor ambient temperature must be 10 ~ 35 ° C. If beyond this range, the temperature measurement accuracy of the device cannot be guaranteed.
- When used outdoors (including semi-open scenes such as doorways), human body temperature measurement accuracy cannot be guaranteed steadily, and guests / users should be guided to move the equipment indoors for installation.
- MinMoe face recognition terminal installation requirements: the visible light channel has enough illumination, and avoid backlighting / reflecting / blocking / etc.
- Avoid non-human high-temperature targets and reflective surfaces in the detection scene
 The above installation precautions, please explain to the user before the project and should be strictly implement;

3.2 Precautions when measuring human temperature

- When an outdoor person first enters the room, they need to take off their hats and lift their bangs. It is recommended to wait for 3 to 5 minutes and wait for the body surface temperature to stabilize.
- When moving from far to near, the temperature measurement results in the vicinity may appear high; the flow guidance line needs to be arranged at the site, when the temperature of the human body is measured at a fixed distance (recommend 0.5 to 1.5 m), person should walk to left or right side to avoid moving toward the device.
- When measuring human body temperature, personnel need to stand at a fixed distance, pass one by one, make a short stop, and face directly to the camera.

The above temperature measurement precautions should be strictly implemented in project site.

4. Preparation before installation

Please read and follow the requirements before using the devices.

4.1 Safety instruction

Precautions for use

- Do not point the device directly to the strong light such as lights and sunlight;
- Please ensure that the thermal camera can dissipate heat normally;
- Please transport, store, and use within the temperature and humidity range indicated in the instruction manual of the thermal camera;
- Please use the factory packaging during transportation, and avoid dropping, heavy pressure, bumping, soaking, etc. during transportation.

Power requirements

- Please use a qualified adapter;
- Meet local electrical safety standards;
- Please ensure that the equipment is powered off during the installation and wiring of the equipment;
- During use, please avoid the power and other cables from being heavy pressed, twisted or stepped on;

Others

- Do not disassemble the device body without permission;
- Please refer to the actual product, this document is for reference only;

Please contact our technical support for latest version and document.

DS-K1T671TM-3XF 302917210	50,000 faces, 50,000 cards; <u>Wall mounting</u> <u>floor standing with mounting pole(optional)</u> . <u>Base mounting with base bracket(optional)</u>
DS-K1TA70MI-T	6,000 faces, 6,000 cards <u>Wall mounting</u> <u>floor standing with mounting pole(optional)</u> . <u>Base mounting with base bracket(optional)</u>

4.2 Device preparation

DS-KAB671-B	the second s	The mounting pole for DS-K1T671TM-3XF and		
(Optional)		DS-K1TA70MI-T		
305700583		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")		
		Including screws, mounting plate, network		
		and power extension cords		
DS-DM0701BL		Base Bracket for DS-K1T671TM-3XF and DS-		
(Optional)	1.3	K1TA70MI-T		
190167872		Material : SPCC		
		Weight: 2.2 ± 0.5 Kg (4.85 ± 1.1 lb)		
		Dimension (W × H × D) :		
		193 mm × 353.5 mm × 195.5mm (7.6" × 14.3"		
		× 7.7")		
DS-KAB6-BASE		Stabilize DS-KAB671-B floor stand and the DS-		
(Optional)		K5604A-3XF/V face recognition terminal		
305700737		Material : SPHC (Hot rolled steel plate)		
		Weight: 4863.5 g (10.7 lb)		
	\sim	Dimension : 325 mm × 325 mm × 17 mm		
		(12.8" × 12.8" × 0.7")		
Recommend tools	Impact drill, screwdriver, socket	If the equipment does not need to be fixed		
(not included in the		with expansion screws, no impact drill and		
package)		sleeve are required		

4.3 Site survey

Installation site survey								
Project Name			Note					
Entrance Name								
1	Installation environment (Indoor, outdoor)		Photos and videos for					
			site					
2	Power supply and network cable							
	(surface installation or bury in the tube)							
3	Device installation method (surface or							
	with stand)							

Note:

1) Take more pictures or record videos for the installation site and ground, pictures and videos for every installation site should be provided.

5. Installation and configuration

5.1 Temperature screening face recognition terminal

5.1.1 Device installation with floor stand DS-KAB671-B (optional)

DS-K1T671TM-3XF and **DS-K1TA70MI-T** can be installed for temporary (without install expansion screw), or fixed on the ground with optional floor stand **DS-KAB671-B**, instruction as below:

Note: Please make sure that there are 4 holes matching the floor stand on the installation surface.

- 1. Unscrew the two screws on the side of the bottom cover and remove;
- 2. Install 4 expansion sleeves(M8×80) in the package into the holes on the ground, make sure the expansion screw is slightly above the ground and secure it with the expansion nut;
- 3. Move back the bottom cover and screw back the two screws on the side.



5.1.2 Device wiring

1. Install bracket on the stand with 4 screws, connect network, power and other external devices' cables to device interface;



2. Install device on the bracket (unscrews 2 screws on both sides, press device bottom and secure 2 screws)



- 3. (Optional Step) Install connector on the stand to adjust the device pitch angle for better recognition.
 - a. Remove existed connector with screw driver



b. Install connector on DS-KAB671-B stand with four M4*18 screws (Phillips screwdriver).

Note : below picture is face up installation method, if you want to install device face down, please rotate the connector 180°



c. Arrange the wiring, fix back plate on the connector with two M4*6 screws (Phillips screwdriver)



d. Install MinMoe face recognition terminal on the plate and tight with 2 screws on the sides.





e. The device can be used for different scenarios with different installation method for the connector.

Connect 220V AC power cable and power cable to floor stand
 Note: The white color connector (below picture 1) is used for connecting with Hikvision barrier, if the device is connected to separate power supply at the site, please cut the connector for easier connection.



5.1.3 Device installation with base bracket DS-DM0701BL (optional)

DS-K1T671TM-3XF and **DS-K1TA70MI-T** can be installed on base bracket, which can be put on the desk. Fix back plate and terminal to base bracket with screws.



5.1.4 DS-KAB6-BASE installation (optional)

DS-KAB671-B floor stand and the DS-K5604A-3XF/V can be installed on the base for better stability.

a. Put DS-KAB671-B on the base



b. Use an Allen key $(M8 \ size)$ to tighten the washer, spring washer and screw





Note: For old version stand, Hex wrench (M8 size) and Hexagon screw (M8 size, length less than 23 mm) should be used for easier installation, the wrench and screw purchased from local market.



c. Install the cover and tighten the screws on both sides



5.1.2 Device debugging and configuration

5.1.2.1 Debugging process



5.1.2.2 Temperature measurement configuration

- 1) Activate terminal with SADP/iVMS-4200 or from device local UI
- 2) Temperature settings

\leftarrow	Temperature Settings	\checkmark
Enable Tempe	rature Detection	
Over-Tempera	ture Alarm Threshold (Max.)	37.3 >
Over-Tempera	ture Alarm Threshold (Min.)	33.0 >
Temperature (Compensation	0.0 >
Door Not Ope	n When Temperature is Abnormal	
Temperature	Measurement Only	
Measurement	Area Calibration	>
Measurement	Area Settings	>
Black Body Set	ttings	>

<u>Enable Temperature detection</u>: Default enable: device will verify face and measure temperature <u>Over-Temperature Alarm Threshold(Max.)</u>: If temperature is higher than the value, device will alarm <u>Over-Temperature Alarm Threshold(Min.)</u>: If temperature is lower than the value, device will alarm Note: Device temperature measuring range is 30 °C to 45 °C (86 °F to 113 °F)

Door Not Open When Temperature is Abnormal: Default enable: If temperature is not in the normal range, door will not open

<u>Temperature Measurement Only:</u> Default enable: temperature measurement only; Disable: permission + temperature

<u>Measurement Area Calibration</u>: The parameters have been adjusted at the factory, no need to configure

<u>Measurement Area Setting</u>: The parameters have been adjusted at the factory, no need to configure <u>Black Body Settings</u>: Calibrate the temperature measurement result if black body is available at the site (please contact our technician for the calibration manual)



5.1.2.3 Face with mask configuration

5.2 Temperature displayed on the screen

1) Normal face recognition, normal and abnormal body temperature



2) Unregistered face (device will prompt Stranger, contact security guard)

04-10 Friday	\$ E	11
	36.6 ℃	
c	Stranger Contact security guard	

3) After enable temperature only, device will not verify face permission, only check temperature is normal or abnormal, if temperature is normal, authentication will device will output I/O signal.



6. Delivery acceptance

In order to ensure that the temperature measurement effect and accuracy meet the requirements of customer, after the completion of the project implementation work, on-site installation and construction personnel and commissioning personnel need to complete the corresponding work, check and fill in the installation, commissioning, and delivery acceptance form according to the following table. After checking and filling as required, the acceptance form and related videos / pictures shall be reported. Hikvision technical engineers shall conduct inspection. after the inspection is correct, the delivery acceptance list shall be provided to Party A for signature and retention.

6.1.1 Construction acceptance

Construction Acceptance List							
No.	Content Meets the		Remark				
		standard(√/×)					
1.1	Whether it is installed in a		Outdoor environment is greatly affected by environmental				
	room with constant		changes such as temperature, wind, and humidity, which				
	temperature, no wind and		will affect the temperature measurement accuracy of the				
	no direct sunlight		thermal imaging human surface, it is recommended to be				
			installed in a location with constant temperature, no wind,				
			and no direct sunlight				
1.2	The actual installation		Take pictures and record video to confirm				
	environment and location						
	determination						

6.1.2 Commissioning acceptance

	Commissioning Acceptance List							
No.	Content	Meets the standard(√/×)	Remark					
2.1	Take pictures of the ACS configuration		Take pictures and record video to confirm					
	page of the face terminal							
2.2	Take pictures of the Temperature		Take pictures and record video to confirm					
	settings page of the face terminal							
2.3	Take pictures of the web		Take pictures and record video to confirm					
	configuration page of the							
	temperature measurement camera							
2.4	Take video of barrier study mode and		Record video to confirm					
	normal mode							

6.1.3 Function acceptance

	Function Acceptance List									
No.	Content	Meets the standard(√/×)	Remark							
3.1	Test the temperature measurement effect when the flow of people is large, compare the effect and		Record video to confirm							
	check the temperature measurement value is accurate, provide 3 minutes of video files.									
3.2	Take video confirmation of normal temperature and abnormal temperature, test comparison video		Record video to confirm							
3.3	Whether the device normally uploads photo capture, temperature and other information		Take pictures and record video to confirm							

7. FAQ:

1. Temperature module is offline

- It shows "connecting thermal module exception" after device reboot, because module has longer booting time than face terminal, please wait about 1 minute more during face terminal connecting temperature measurement module.
- 2) Check whether thermal module is online or offline, if offline, it will prompt on main screen, please check cable connect in the back



2. Temperature measurement failed

1) Check thermal module is online or offline on main screen



2) Open device menu and check whether terminal can get video stream from thermal camera or not.



3) Temperature measurement result is not accurate

- 1) In order to get an accurate temperature, after the device is powered on, you should wait for 90 min to warm the device up.
- 2) Open mouth and deep exhalation will affect the temperature measurement results
- 3) Please check and upgrade device and thermal module to latest firmware version

4) Whether device can be used for temperature measurement for strangers.

Enable temperature measurement only option from device

←	 Temperature Settings 	\checkmark
Ena	de Temperature Detection	
Ove	r-Temperature Alarm Threshold (Max.)	37.3 >
Ove	r-Temperature Alarm Threshold (Min.)	30.1 >
Dist	ance for Measuring Temperature (m)	1.0 >
Doo	r Not Open When Temperature is Abnormal	
Ten	perature Measurement Only	
Mea	surement Area Calibration	>
Mea	surement Area Settings	>

5) Whether device support ehome(ISUP) protocol or not

Limited by protocol, currently only support device network sdk

6) Whether device can be used for time attendance

Yes, device will upload log to iVMS4200 or Hikcentral platform, calculation will be done in the software.

7) Log search and export

Log query from device local, Abnormal temperature will be marked as red.

- a. Only registered persons' authenticated record can be searched.
- b. Strangers and temperature measurement only record can't be searched from local screen.



c. Export from device local to USB drive, CSV format, including employee id, card no, name, time, attendance status, temperature info, overtemperature or not, with mask or not

Employee	Card No.	QR code l	Name	Time	Card Read	d Event Type	checkinOrd	temperatu	Overtemp	With Mask	health cod	е	
•	1			2020/4/28 10:08	1	MINOR_TEMPERATURE_CHEAK	no checkin	36.3	normal	with mask	wihout hea	lth code	
·	1			2020/4/28 10:08	1	MINOR_TEMPERATURE_CHEAK	no checkin	36.6	normal	with mask	wihout hea	Ith code	
·	1			2020/4/28 10:08	1	MINOR_TEMPERATURE_CHEAK	no checkin	36.4	normal	with mask	wihout hea	lth code	
·	1			2020/4/28 10:12	1	MINOR_TEMPERATURE_CHEAK	no checkin	36.3	normal	with mask	wihout hea	lth code	
·	1.00			2020/4/28 10:12	1	MINOR_TEMPERATURE_CHEAK	no checkin	36.4	normal	with mask	wihout hea	lth code	
'1	'32623862	37		2020/4/28 10:13	1	MINOR_FACE_VERIFY_PASS	no checkin	36.4	normal	with mask	wihout hea	Ith code	
'1	'32623862	37		2020/4/28 10:13	1	MINOR_FACE_VERIFY_PASS	no checkin	36.4	normal	with mask	wihout hea	Ith code	
'1	'32623862	37		2020/4/28 10:21	1	MINOR_FACE_VERIFY_PASS	no checkin	36.1	normal	with mask	wihout hea	Ith code	
'1	'32623862	37		2020/4/28 10:21	1	MINOR_FACE_VERIFY_PASS	no checkin	36.1	normal	with mask	wihout hea	Ith code	
'1	'32623862	37		2020/4/28 10:36	1	MINOR_FACE_VERIFY_PASS	no checkin	36.3	normal	with mask	wihout hea	Ith code	
'1	'32623862	37		2020/4/28 10:36	1	MINOR_FACE_VERIFY_PASS	no checkin	36.4	normal	with mask	wihout hea	lth code	
•	1			2020/4/28 10:46	1	MINOR_FACE_VERIFY_FAIL	no checkin	36.4	normal	without mask	wihout hea	lth code	

d. Monitoring will not show temperature information.

O IVMS-	4200										🙆 Not Log) 🗄 🗄 edmin 🔹 🛆	
88 📼	Main	View j	Event Center	Monitorir	ng 💿 📑 Access	Control	Person	Maintenance and Management	t			
Door1_ 6.2	0.9.9											
Event Typ	. 👩 4			Event Status 💈	Normal 🛛 Except						💈 Show Latest Even	
Card No.	010	Person Name	Organization	Event Time	Door Location	Authentica	Direction	Description	Person	Linked Capture Picture		
				2020-04-28 10:36:09								
32623862	37		New Organi	2020-04-28 10:36:04	Door1	Card/Face	Enter	Face Authentication Passed				
											and the second second	
											164 E 1	
				2020-04-28 10:23:48				Remote: Login				
32623862								Face Authentication Passed				
											Details	
			New Organi					Face Authentication Passed		morgen Male		
										New Organization		
8	i.	8	2	2020-04-28 10:20:18		8	to	Remote: Lagout				Γ

Real time event in Event Center, temperature, captured normal and thermal pictures are available.

🚺 iVMS-4200											9 – 9 ×
📰 📰 Main View	📺 Event Cent	er 🛛 💿 Monitoring 🛛 📗	Access Control 📃 Per	rson 📰 Maintenance and N	lanagement						
	Device Type	🖉 Encoding Device 🛛 Security Contr	ol Panel 💆 Video Intercom 💆 A	Access Control Device 🛛 🗹 Storage Devic	e 🧧 Cloud P2P Devi	ice 💆 Security Radar	Priority 🗹 High	Medium	Normal	Uncategorized	
📺 Real-time Event											
Event Search	🗆 Index	Event Source	Event Type	Event Time	Employee	Card No. Card Ho	lder Name Temper.	Abnorm	Address	Priority	Event D
										Uncategorized	10.9.96.2
		Access Control Device:10.9.96.27	Remote: Log	gin 2020-04-28 10:23:4	8					Uncategorized	10.9.96.7
										Uncategorized	
		Access Control Device:10.9.96.27 Ent	ance Card Reader1 Face Authent	tication Passed 2020-04-28 10:21:4		3262386237				Uncategorized	Entrance
										Uncategorized	Door1
										Uncategorized	Entrance
										Uncategorized	10.9.96.2
										Uncategorized	10.9.96.7
										Uncategorized	10.9.96.7
											10 0 06 1
	Event Details								Send Email	Handle	Hide 🗸
	Video		Auto-Play Video Picture			Event Details	Hand	lling records			
		Unked Camers Id cameral. Please configure the camer			0	Entrance Card	Reader1				

Search event in iVMS-4200, please select <u>device type</u> as **Access Control**, then you can find temperature, captured normal and thermal picture (without temperature OSD information)

MinMoe Temperature Screening Terminal Installation Guide Hikvision Product Support Team

O IVMS-4200																
B Di Main View Main View	📺 Event Center 💿 💿 Monito	oring	📕 Ac	cess Control	Pers	on 🗊	Maintenance a	and Manager	nent							
=	Time															
the summer and	2020.04.28 00:00:00-2020.04.28 23:59:59 🗎		Index	Event Type	Card Ho	Card No.	Temperature	Abnormal	Fvent Time	Device Name	Event Source	Dire	MACAN	Authenti	Card Type	a l
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	All	1														
	Show Mare	- 7	1	175												
	Search		Y													0.0

Export captured picture and event from iVMS-4200 to PC, CSV format for event log and captured pictures

i 🗳	/MS-4200													C No
	📑 Main View	📺 Event Center 💿	Event Center 💿 🕘 Monitori		Ac	cess Control	🗾 Per	son 📴	Maintenance a	and Management				
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m						Developed					2020 04 20 10 26 00	10.0.05.07		
-0	vent Search	🖲 Device 🔿 Group				Door Locked					2020-04-28 10:56:09	10.9.96.27		INONe
		Device Type				Face Authentica		3262386237	36.4°C	No	2020-04-28 10:36:04	10.9.96.27	Entrance Card Reader1	Enter
		Access Control				Door Unlocked					2020-04-28 10:36:02	10.9.96.27	Door1	None
		Device				Face Authentica		3262386237	36.3°C		2020-04-28 10:36:02	10.9.96.27	Entrance Card Reader1	Enter
			Q			Remote: Login					2020-04-28 10:24:14	10.9.96.27	10.9.96.27	None
		Include Sub-Node				Remote: Login					2020-04-28 10:24:14	10.9.96.27	10.9.96.27	None
						Remote: Login					2020-04-28 10:23:48	10.9.96.27	10.9.96.27	None
						Remote: Logout					2020-04-28 10:23:48	10.9.96.27	10.9.96.27	None
		▶ 🗌 🥅 10.9.96.27				Door Locked					2020-04-28 10:21:50	10.9.96.27	Door1	None
						Face Authentica		3262386237	36.1°C	No	2020-04-28 10:21:45	10.9.96.27	Entrance Card Reader1	Enter
					8 Record(

4	А	В	С	D	E	F	G	н	1	J	К	L	М	N	0	Р	Q	
1	Captured	Thermal G	Picture Sav	Card Hold	Card No.	Temperatu	Abnormal	Event Time	Device Nar	Event Sour	Direction	MAC Addr	Authentica	Card Type	Card Read	Priority	Status	
2						-	-	#######	10.9.96.27	Door1	None		-	Invalid	Invalid	0		0
3	D:/01 All N	/ D:/01 All N	/laterials of		'32623862	:36.4°C	No	#######	10.9.96.27	Entrance C	Enter		Card/Face	Normal Ca	Invalid	0		0
4						-	-	#######	10.9.96.27	Door1	None		-	Invalid	Invalid	0		0
5	D:/01 All N	/ D:/01 All N	/laterials of		'32623862	:36.3°C	No	#######	10.9.96.27	Entrance C	Enter		Card/Face	Normal Ca	Invalid	0		0
6						-	-	#######	10.9.96.27	10.9.96.27	None		-	Invalid	Invalid	0		0
7						-	-	#######	10.9.96.27	10.9.96.27	None		-	Invalid	Invalid	0		0
8						-	-	#######	10.9.96.27	10.9.96.27	None		-	Invalid	Invalid	0		0
9						-	-	#######	10.9.96.27	10.9.96.27	None		-	Invalid	Invalid	0		0
10						-	-	#######	10.9.96.27	Door1	None		-	Invalid	Invalid	0		0
11	D:/01 All N	/ D:/01 All N	/laterials of		'32623862	:36.1°C	No	#######	10.9.96.27	Entrance C	Enter		Card/Face	Normal Ca	Invalid	0		0
12						-	-	#######	10.9.96.27	Door1	None		-	Invalid	Invalid	0		0
13	D:/01 All N	/ D:/01 All N	/laterials of		'32623862	:36.1°C	No	#######	10.9.96.27	Entrance C	Enter		Card/Face	Normal Ca	Invalid	0		0
14						-	-	#######	10.9.96.27	10.9.96.27	None		-	Invalid	Invalid	0		0
15						-	-	#######	10.9.96.27	10.9.96.27	None		-	Invalid	Invalid	0		0
16						-	-	#######	10.9.96.27	10.9.96.27	None		-	Invalid	Invalid	0		0
17						-	-	#######	10.9.96.27	10.9.96.27	None		-	Invalid	Invalid	0		0