

# NJ-1 Thermal Imaging Intelligent Temperature Measurement System

## Production Introduction

NJ-1 Thermal Imaging Intelligent Temperature Measurement System puts to use the leading infrared thermography chip at global, which combines visible light with infrared thermography perfectly. And, to measure the temperature of passengers accurately in real time by the best of Automated General Temperature Correction Method and newest Algorithm for AI facial recognition.

### Smart automated screening of suspected fever

The system will automatically report any suspected febrile person whose body temperature exceeds the warning range for quick confirmation by relevant staff.

### Multi-Mode Operation, Visual Data Presence with Cross-platform management

The system can't only operate alone but connect to the back-end cloud platform. To achieve multi-point control, data tracing, big data analysis, visual data presentation, and cross -platform docking management.



## Main Features

- ✓ Simply use and 1 minute installation
- ✓ Easy deployment without cabling
- ✓ Noncontact automatic temperature measurement
- ✓ Abnormal body-heat alarm
- ✓ Support mask recognition
- ✓ Support for helmet recognition
- ✓ Support simultaneous identification of multiple people
- ✓ Cloud platform supports big data
- ✓ Adopt the world-class infrared technology



## Main parameters

Product Model	NJ -1
Visible light resolution	1440 x 1080
Infrared thermal imaging resolution	160 x 120
CPU	Kirin990
Display size	10.8 "
Accurate Temp measurement	±0.5°C
Palette	8 color palettes supported
Image storage	Support 30 days alarm information
Network connections	Wi-Fi,4G
Operating temperature	0°C - 45°C

## Application places

Nj-1 thermal imaging intelligent temperature measurement system can be customized based on different hardware peripheral environments, mobile applications and background management system, to meet any temperature measurement requirements of different scenarios.



## Part List

### 1 HUAWEI MatePad Pro



### 2 FLIR



### 3 Wireless Charger



### 4 Tripod



## Warranty

- \* About accessories. The system including HUAWEI, FLIR and other accessories products can normally enjoy the official warranty according to the warranty service.
- \* About the NJ-1 thermal imaging package. We can provide one-year warranty and maintenance service.
- \* We will cooperate with the manufacturers concerned to provide free service for the customers.

## Software Installation Instructions

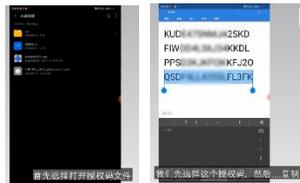
- 1 Copy the installation file and authorization code of the system to the storage file in HUAWEI MatePad Pro.



- 4 Paste the copied authorization code, and [confirm the authorization], the working interface will pop up automatically after the system is installed successfully.



- 2 Find [file management] - [authorization code] in MatePad, select one of them and copy.



- 5 Close the system interface. Click on MatePad [Settings], turn on [Performance Mode] and [Wireless Reverse Charge]



- 3 Find the system installation file, click install. Always select permission during installation.



- 6 Boot the system, insert the infrared module and start, adjust the camera to the face.



- \* All the systems in this paper refer to NJ-1 "intelligent temperature measurement system".
- \* Make sure the Wi-Fi of MatePad Pro is ON and connected to the Internet.

## Device Installation Instructions

- 1 Power on the HUAWEI MatePad Pro



- 2 Start the NJ-1 "intelligent temperature measurement system" application.



- 3 Power on the FLIR



- 4 Insert FLIR into HUAWEI MatePad Pro.



- 5 Install device to tripod and adjust position and height.



## Instructions for Family Care APP

### 1 The condition of using affection care

- 1) "Family care" APP is installed in the device. If there is no such APP, please download it from the APP store.
- 2) To log into HUAWEI account on the device, if no account, please register a HUAWEI account first.
- 3) Add our after-sales staff as friends in huawei account center.

### 2 How to Use Family Care APP

- 1) After entering the app, click "family Group", selecting "add friends" and "add friends with HUAWEI account, then, add after-sales operator into Family group.
- 2) The staff member sends a request to you to assist in solving the problem remotely when you agree on the device.

## Installation Problems and Solutions

### 1 Ensure sufficient light

- For better results, please be sure to switch to visible light mode to watch the quality of the video before selecting the site and ensure the facial is clearly.
- To improve the accuracy of face recognition, try to choose a non-reflective back wall as curtain wall, turn on the lights if it's possible.
- To maximize the brightness of the Huawei Matepad Pro for better face recognition.
- If the brightness is not enough at night or during the day, you can use a light supplement or other tools to assist in the measurement.

2 Try not to place device at the passageway or direct sunlight channel. Body temperature would be rised by direct sunlight or passageway which would affect the measurement data.

3 Keep the volume as high as possible.

4 Prevent the operating system from automatically terminating the application. If the application takes up more memory, the operating system may automatically terminate the application.

**Solution: Turn on performance mode (for HUAWEI): SET -> BATTERY -> PERFORMANCE MODE (ON)**

HUAWEI performance mode is to make the MatePad run with maximum performance, and hardware such as CPU and GPU in performance mode can run without restriction to achieve the best performance state, which can make MatePad run more smoothly, but also very electricity consumption.

5 Configuration startup management. When the system has an intelligent temperature measurement system interface switch to other interfaces, sometimes the application will be terminated by the back-end system. The main reason is no settings allow background activity.

**Solution: SET -> APPLICATION -> APPLICATION START MANAGEMENT -> INTELLIGENT TEMPERATURE MEASUREMENT SYSTEM (from automatic management to manual management)-> OPEN Allows Self Start and Allows Background Activities.**

6 Enter the interface did not see infrared thermal imaging. Because of the connection problem, the application did not communicate with the device.

You can select the SETTINGS button in the upper right-hand corner -> SYSTEM SETTING -> TURN OFF AND ON the device status.

- 7 Never sleep mode. Set -> Display -> Sleep mode -> Never
- 8 The temperature measurement software belongs to the high performance operation application, which does not support 24/7 working. It is very necessary to ensure the proper rest of the device every day.
- 9 It is normal for the system to exit automatically or stop the picture during high performance operation, close the APP and open it again.
- 10 The thermometer will have automatic calibration procedures, the screen will stagnate, the process is very short, is a normal phenomenon, wait a few seconds patiently
- 11 Remote assistance by family service.
- 12 During the temperature measurement, the normal temperature will be displayed in green box and voice prompt and storage, abnormal temperature will be displayed in red box and voice prompt storage.  
Capture pictures in the device will occupy MatePad storage space, and then affect the normal operation of the device, please clean up in time.  
Clear method is to open "File Management ", click" Photo ", select the picture to delete.
- 13 Lower power will cause the software to run unstability. Please charge timely to ensure normal operation
- 14 Please make sure that the tripod and Matepad fixture are firmly during installation and use. To avoid loss caused by equipment falling off.