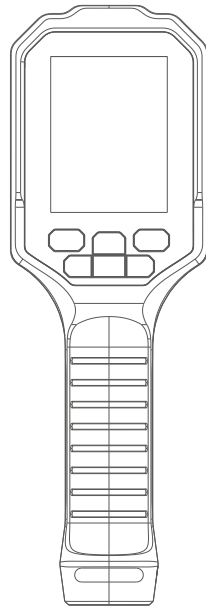


# Thermal Imager

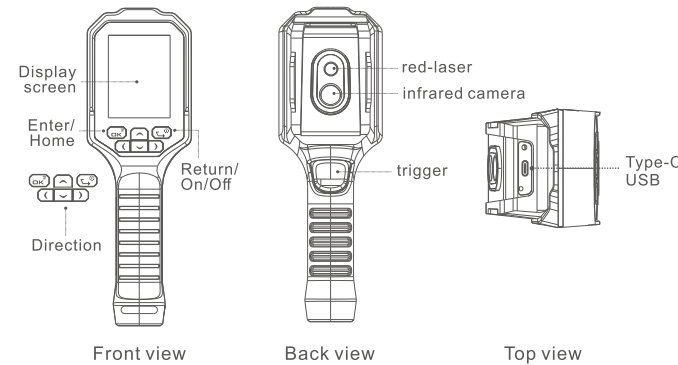
## NF-524



### Overview

The NF-524 infrared thermal imager adopts the display method of infrared thermal imaging, which can measure the temperature of each pixel of the target object and capture the state of the object more clearly.

### Keys and Functional Description



- ① Charging indication: USB Type-C interface is used for charging. During charging, the display screen is normally on and display the current power volume.
- ② On/Off: Short press “” to power on or long press “” to power off.
- ③ Photographing and video recording: Short press “Trigger” in power-on state to photograph, or long press “Trigger” to record videos.
- ④ Data transmission: When connecting with a computer through the USB Type-C wire, the thermal imager can generate the USB drive and copy photos/videos through the Windows system.

### Functional Description

#### 1. On/Off

Short press “” in power-off state to power on or long press “” in power-on state to power off.

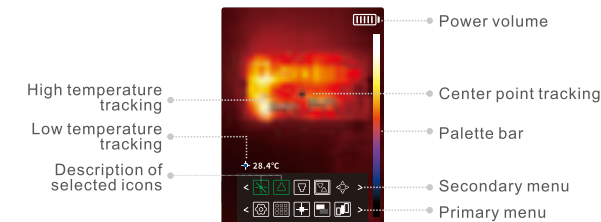
#### 2. Main interface

Press “” and “” on this interface to switch the palette, or press “” and “” to switch the function of visible light imaging or infrared imaging.

Short press “Trigger” to photograph or long press “Trigger” to record videos.

Press “” on this interface to light off the screen and save power or press any keys to light on the screen again and enter the interface.

Press “” to display the following menu interface:

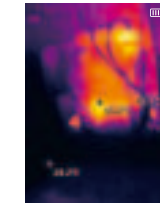


After the primary menu pops up, select a function with “” and “”, press “” to pop up the secondary menu. Press “” to return to the main interface.

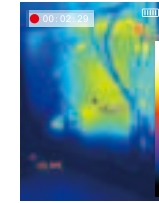
After entering the secondary menu, select a function with “” and “”, press “” to confirm the selected function, and press “” to return to the primary menu. Both photographing and video recording are valid on this interface.

### 3. Photographing and video recording

Short press “Trigger” to photograph (image format: jpg).  
Long press “Trigger” to record videos (video format: mp4).



Photographing



Video recording

### 4. Album

Press “” on the main interface to pop up the primary menu, select the album “” with “” and “”, press “” to enter the album.

All the pictures and videos in the album are arranged in the shooting time. Select the pictures or videos with “” and “”, press “” for full-screen display or play.

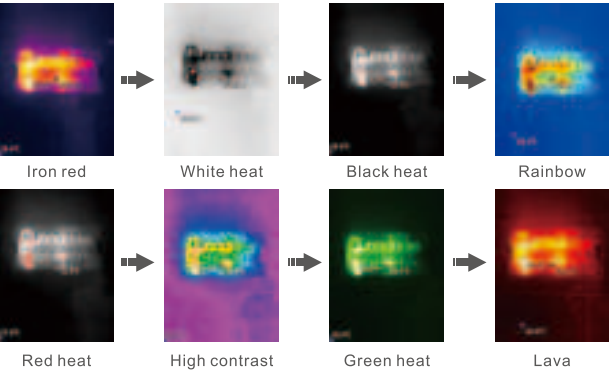
Press “” and “” in the display or play state to switch the previous or next file. After play or pressing “”, return to the album list interface.

5. System settings

| Option                             | Description of system settings                                                                                              |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Language switch                    | Chinese (Simplified), Chinese (Traditional), English, French, German, Spanish, Russian, Dutch, Japanese, Korean and Arabian |
| Emissivity                         | 0.01-0.99                                                                                                                   |
| Unit switch                        | Degree centigrade, Fahrenheit and Kelvin                                                                                    |
| Temperature alarm (On/Off) setting | Select the upper/lower limit alarm or set the alarm value                                                                   |
| Storage settings                   | View the internal storage situation and formatting                                                                          |
| Date and time                      | Time setting: Year/month/day/hour                                                                                           |
| Auto OFF                           | Set the auto OFF time if there is no operation for a long time                                                              |
| Palette bar display switch         | Whether the screen palette bar is displayed                                                                                 |
| Screen brightness                  | Screen brightness (adjustable)                                                                                              |
| Factory reset                      | Whether to reset the factory data (optional)                                                                                |

6. Palette

To optimize different scenarios and facilitate observing different target objects, the thermal imager comprises 8 common palettes.



7. Temperature measurement mode

① Conventional temperature measurement

Support temperature measurement at the center point as well as continuous high/low temperature tracking

② Regional temperature measurement

Choose some regions for center point and high/low temperature tracking and test, or zoom in/out the temperature measurement region for different scenarios.

8. Laser

Pressing "  " on the main screen will bring up a primary menu. Selecting "  " "  " will access the submenu where you can choose the Laser "  " function. Press "  " to activate it. Once activated, press "  " again to deactivate the laser.

Technical parameters of product

| Technical parameter description of NF-524 |                                  |                                                                                                                             |
|-------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Handheld thermal imaging                  | Resolution                       | 120°90                                                                                                                      |
|                                           | Working band                     | 8~14um                                                                                                                      |
|                                           | Frame rate                       | 25Hz                                                                                                                        |
|                                           | NETD                             | <60mK@25℃                                                                                                                   |
|                                           | Field angle                      | H=38° V=50°                                                                                                                 |
|                                           | Emissivity                       | 0.01~0.99                                                                                                                   |
|                                           | Temperature measurement range    | Low temperature: -10 to 160℃<br>High temperature: 160-400℃                                                                  |
|                                           | Temperature measurement accuracy | ±2℃ or ±2% of the reading                                                                                                   |
|                                           | Screen size                      | 2.8 inches                                                                                                                  |
|                                           | Palette                          | Iron red, white heat, black heat, rainbow, red heat, high contrast, green heat and lava                                     |
| General                                   | Temperature measurement          | Support full-screen temperature measurement of highest/lowest/center point and mild region                                  |
|                                           | Laser level                      | Class II                                                                                                                    |
|                                           | Language                         | Chinese (Simplified), Chinese (Traditional), English, French, German, Spanish, Russian, Dutch, Japanese, Korean and Arabian |
|                                           | Interface                        | USB Type-C (support charging and data transmission)                                                                         |
|                                           | Battery                          | 2600mAh lithium battery                                                                                                     |
|                                           | Capacity                         | 8G internal memory                                                                                                          |
|                                           | Picture storage format           | JPG                                                                                                                         |
|                                           | Video format                     | MP4                                                                                                                         |
|                                           | Working time                     | 4 hours if the battery is fully charged                                                                                     |
|                                           | Working temperature              | -10~50℃                                                                                                                     |
|                                           | Storage uretemperat              | -40~85℃                                                                                                                     |
|                                           | Net weight                       | 300g                                                                                                                        |
|                                           | Product dimension                | 219 x 72 x 66mm                                                                                                             |

Packing list

|                                          |        |                      |        |
|------------------------------------------|--------|----------------------|--------|
| Handheld Thermal Imager                  | 1 set  | Manual               | 1 copy |
| Qualification certificate/ warranty card | 1 copy | Color box            | 1 pcs  |
| Instructions card of lithium battery     | 1 copy | USB Type-C data line | 1 pcs  |

Remarks: The package accessories shall be subject to the received material object.



# 深圳市诺方舟电子有限公司

|      |     |            |     |       |      |     |      |     |         |       |                           |
|------|-----|------------|-----|-------|------|-----|------|-----|---------|-------|---------------------------|
| 编号   | 201 | 202        | 301 | 302   | 303  | 304 | 305  | 比例: | 1:1     | 品号:   | 304-K4801-0002            |
| 类目   | 塑胶件 | 五金类        | 镜片  | PVC贴纸 | 不干胶贴 | 说明书 | 包装盒  | 单位: | mm      |       |                           |
| 选择   |     |            |     |       |      | √   |      | 设计  | CZG     | 品名:   | NF-524说明书折页英文-V1 20240329 |
| 306  | 307 | 308        | 309 | 310   | 311  | 312 | 313  | 核准  |         |       |                           |
| 彩卡   | 吸塑  | 工具包        | PE袋 | 纸箱    | 宣传单  | 合格证 | 打印标签 | 标准: | √       | 文件类型: | 做货文件 (较打样文件,更新了参数信息)      |
|      |     |            |     |       |      |     |      | 定制: |         |       |                           |
| 制作日期 |     | 2024.03.29 |     | 样式    | 4折页  |     | 印刷材质 |     | 128g双铜纸 |       |                           |
| 印刷要求 |     | 彩色         |     | 页码    | 变更记录 |     |      |     |         |       |                           |
| 尺寸大小 |     | 420*140mm  |     | 版本    |      |     |      |     |         |       |                           |