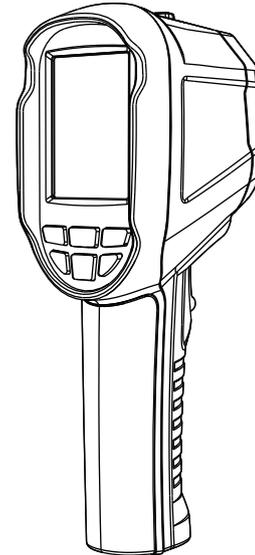


# Thermal Imaging Camera Instruction Manual



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# Contents

Preface	1	3.2. Delete Video	19
Safety Instruction	1	4. Introduction to “Color Palette” Sub-menu	20
Preliminary Acquaintance with Infrared Thermal Imager	5	4.1. Color Palette Description	20
Overview	6	4.2. Application of Color Palette	21
Cleaning of the Products	7	5. Introduction to “Emissivity” Sub-menu	21
Lens Maintenance	7	5.1. Emissivity Description	21
Charging of the Battery and Description	8	5.2. Emissivity Setting	22
Performance Index	9	5.3. The Emissivity Value of Common Materials	24
Product Description	11	6. Introduction to “Setting” Sub-menu	24
1. Instruction to Structure	11	6.1. Auto Shutdown Setting	26
2. Display Description	13	6.2. Intensity Settings	26
3. Key Description	14	6.3. Language Settings	26
Initial Operation	15	6.4. Unit Setting	26
Introduction to the Menu	17	6.5. Temperature Range Setting	26
1. “Image Overlapping” Submenu	17	6.6. Time Format Setting	26
1.1. Description of Image Overlapping	17	6.7. Time Setting	27
1.2. Application of Image Overlapping	17	6.8. Enable/Disable of the Highest and Lowest Temperature Cursor	28
2. Introduction to “Image” Sub-menu	18	Thermal Imaging Image Analysis Software Operation Guide	29
2.1. View Image	18		
2.2. Delete Images	18		
3. Introduction to “Video” Submenu	19		
3.1. View Video	19		

## Preface

Respected users:

How are you! Thank you for purchasing our instrument. In order to use it in a better manner, we remind you to read the instruction for use carefully before use and keep it properly so as to look up in the future use.

## Safety Instruction

Please ensure that you have read and understood the safety precautions described in the following text before using the product so that you can operate it correctly.

The safety precautions described in the following text guides you to operate the product and its accessories correctly and safely to avoid damage and loss to you, other people and the device.



## Considerations

Please observe the following guide in order not to damage the product:

### **Don't assemble or dismantle the product without permission.**

The product is a type of super precise equipment. Don't try to dismantle, assemble or remodel any part of the product. Repair of the product should be made by technical personnel designated by the company.

### **Avoid damage to probe of the product.**

Note: don't put the product close to strong heat source directly (such as electric iron). Otherwise, it may damage the probe of the product.

### **Product hum.**

When the product works, there is light sound of clicking every several seconds. This is normal phenomenon that the lens captures images.



## Warning

The warning describes the acts that may cause harm to users. Please observe the following operation in order to avoid electric shock or personal injury.

### **If the product case is damaged, don't use it continuously.**

Please contact the local distributors or agents of the company under such condition.

### **During the process of use, if the product is found with smoke, spark and the burnt smell, please stop using at once.**

In case of such condition, the product power supply should be powered off first. After the smoke and peculiar smell disappears completely, please contact the local distributors or agents of the company.

### **Don't weld the battery without permission.**

Such operation may damage the battery and result in leakage and explosion of the battery.

### **Avoid that the battery is impacted (such as collusion and falling, etc).**

Such condition may damage the battery case or result in that the battery leaks or explodes.

### **Please pull off the adapter on the power socket when charging is not made.**

The adapter may get overheated if it is connected with power supply for a long time. This may cause overheating, deformation and fire.

**Please ensure that the plug of the adapter is inserted into the specified power socket.**

The adapter plug may be different due to the regions. Please make confirmation whether the specification of the adapter is consist with the specification of electric appliances in your region. Otherwise, this may cause overheating of the equipment, electric shock, fire, chemical leakage inside the battery, explosion and other serious consequences.

**When the plug of the adapter or wire is damaged, stop using immediately.**

Don't change the battery unless the plug of the charger is inserted into the socket completely.

**Do not touch the electric wire with wet hands.**

It is possible to cause electric shock when touching the electric wire with wet hands. When pulling out the electric wire, hold the electric wire head rightly to pull out the wire. Don't pull off the electric wire directly. Otherwise, the electric wire may be broken, causing electric shock and fire.

**Forbid dip the product into water caught in rain.**

If the case contact with any liquid, please wipe it dry immediately. If water or other liquid enters the inside of the instrument, please power off the power supply at once. Continuous use may result in product damage.

**Clean the dust on the adapter plug and the data line.**

When it is exposed to dusty and dump environment for a long time, the dirt surrounding the electric equipment will accumulate moisture. This may cause short circuit and fire.

**Clean the dust on the adapter plug and the data line.**

When it is exposed to dusty and dump environment for a long time, the dirt surrounding the electric equipment will accumulate moisture. This may cause short circuit and fire.

**Don't use abradant, isopropanol or solvent to clean the enclosure of the device.**

Such operation may cause the product case to be damaged.

**The product temperature may increase after a long time of charging.**

You may feel scorching heat when the hands touch the sensors.

**Problem caused by water condensation.**

Don't bring the instrument into low temperature environment from high tempera-ture environment in a short time or from low temperature environment to high temperature environment. This may result in that the inside of the instrument and appearance produce water condensation. In such condition, the instrument should be placed into portable box or plastic bag. Before use, make it restore to the environmental temperature and take it out to use.

If the product has water condensation inside, please power it off immediately. Otherwise, the instrument may be damaged. Operation is not allowed unless the water condensation disappears.

**Avoid that the product is impacted (such as collision and falling, etc).**

Such operation may cause the product to be damaged. Please avoid such operation.

### **Long-time storage and regular charging.**

The product should be placed at a cool and dry environment if it not used for a long time. If the product installed with battery is stored for a long time, charging should be made regularly. Otherwise, the battery will run out and the service life will be shortened.

## **Preliminary Acquaintance with Infrared Thermal Imager**

For a long time, infrared thermal imaging detection technology has become an important means to ensure Industrial safety in developed countries. The application field includes electric power, metallurgy, petro-chemistry, machinery, coal, traffic, fire control and national defense, etc. It can not only carries out real-time detection at high voltage, high current and high speed operation to perform real-time detection for production and instrument but also need not power off the power supply, stop the machine or stop the production to find the potential problems and prevent occurrence of malfunction. The “non contact” modern detection technology is safe, reliable and quick. It is a type of technical revolution compared with traditional contact detection method.

The infrared thermal imaging technology is widely used in the following fields:

- Power equipment, transmission, transformer line inspection;
- Hidden fire source search in fire protection;
- Personnel search and rescue in the fire, and fire command;
- Analyze the location and heat loss of leak points in heat pipes and heating equipment;
- Determining the location of the heating fault of the operating train;
- Security department night monitoring.

## **Overview**

This product is an infrared camera that integrates surface temperature measurement and real-time thermal image. The traditional inferred thermometer needs to measure every component one by one while it is not necessary for infrared imaging camera, thus saving time. The potential problems may be displayed on color display screen clearly. Moreover, the central point measurement cursor is used to locate quickly and accurately to measure the temperature of the target object.

In order to increase the differentiation, the product is provided with a visible light camera. The thermal images and visible images are stored in the device and can be read through USB or stored in a computer to generate a report or for print.

With small volume, the product is easy to operate and has strong function. it is the ideal selection for electric power, electronic manufacturing, Industrial inspection and other fields.

The following major functions increase the product's accuracy and usability:

- The radiation coefficient may be adjusted to increase the measurement accuracy of objects with half reflection surface.
- The highest temperature and lowest temperature cursor may guide the users to the areas with highest and lowest temperature of the thermal images.
- The selectable color palette.

## Cleaning of the Products

The shell of this product is cleaned with a damp cloth or diluted soapy water. Do not use abrasives, isopropyl alcohol or solvents to clean the lens and screen. Use professional optical lens cleaners.

## Lens Maintenance

Prevent damage of the infrared lens:

- Clean the infrared lens carefully. The lens is provided with refined anti-reflection coating.
- Don't clean with force to prevent damage of the anti-reflection coating. The selectable color palette.
- Use a cleaning solution for lens maintenance, such as alcohol-based commercial lens cleaners, alcohol, and a lint-free cloth or paper towel. Compressed air tanks can be used to remove loose particles.

Clean the lens:

- The compressed air tank or dry nitrogen ion gun (if applicable) may be used to blow the loose particles on the lens surface.
- Dip the lint free cloth in alcohol.
- Squeeze the excessive alcohol in the cloth or apply the lint free cloth on dry cloth lightly.
- Wipe the lens surface by making circular motion. Then discard the cloth.
- If it is necessary to repeat above step, please use new cloth to dip with the cleaning solution to wipe.

## Charging of the Battery and Description

### Use USB data line to charge:

- The product has built-in chargeable 18650 lithium batteries.
- When the battery level is low, the top right of the screen will display “”. Please charge in time through Type-C USB interface (When the product is off, you can charge) .
- Pull off the USB line after fully charging.

### To make the lithium ion battery can play the perfect performance:

- Don't place the battery on the charger exceeding 24 hours.
- The thermal imaging device should be charged for two hours at least every three months so as to extend the battery service life to the greatest extent.
- Don't try to charge the battery in extremely cold environment.

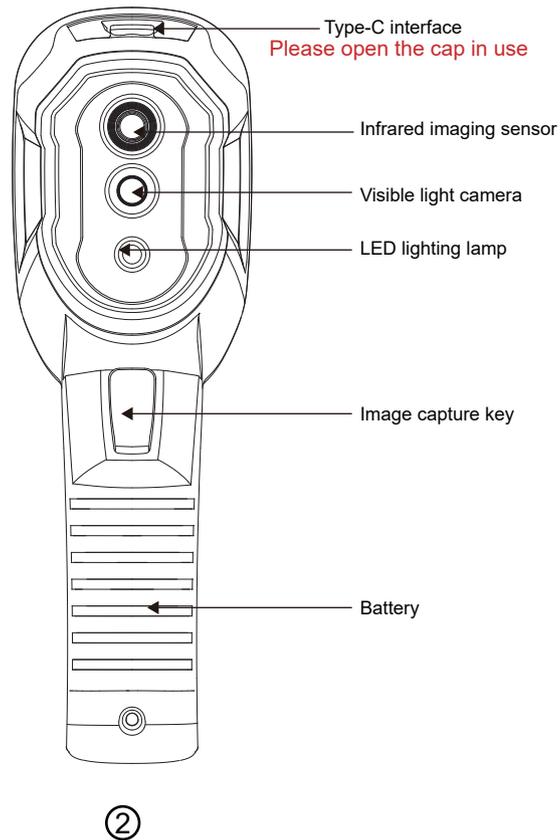
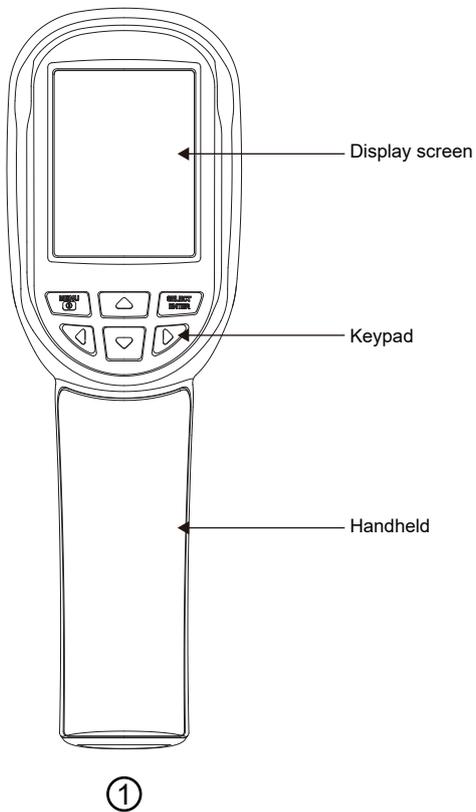
## Performance Index

Model	HT-03	HT-04D
Infrared resolution	120×90	160×120
Field angle	37°×28°	50°×37.2°
Infrared detector type	Vanadium Oxide Uncooled Infrared Focal Plane	
NETD	≤40mK @25 C,@F/1.0	
Temperature measurement range	-20 C to +550 C (-4 °F to 1022 °F)	
Infrared response band	8 to 14μm	
Cell size	17μm	
Thermal imaging frame rate	≤25Hz	
Lens focal length	3.2mm	
Emissivity setting	Adjustable from 0.01 to 1.00	
Measurement accuracy	-15°C to 550°C ±2°C or ±2%; -20°C to -15°C ±4°C	
I FOV	5.31mrad	
Focus mode	Fixed	
Temperature measurement mode	Center point/hot and cold spot tracking	
Color palette	Rainbow, iron, cold color, white hot, black hot	
Display size	2.8-inch(240×320)	
Image display mode	Infrared/visible light/dual light fusion	
Lighting system	LED fill light	

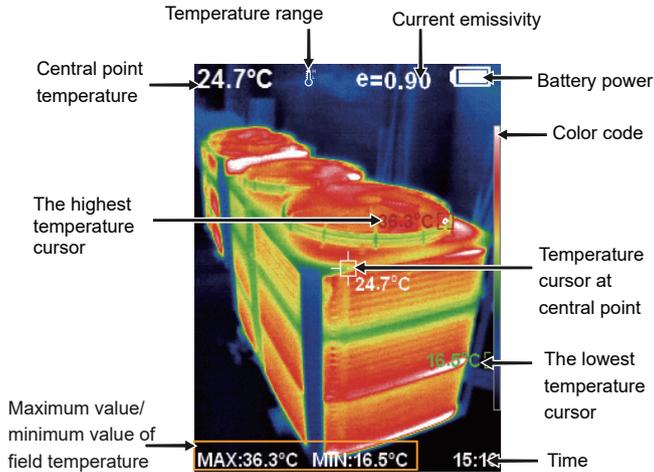
Device storage	Built-in 4G eMMC (user available storage space is about 3G)
Storage Image/Video Format	JPG/MP4
Image/video export method	USB connection to computer export
Image analysis function	Support offline analysis on PC
Menu language	English、Chinese、Italian、German
Battery Type	Removable Rechargeable Lithium Battery (18650)
Battery capacity	2000mAh
Working time	2 to 3 hours
Power interface	Type-C
Power configuration	5 minutes / 20 minutes / no automatic shutdown
Work temperature	-20°C to 50°C (-4 °F to 122 °F)
Storage temperature	-20°C to +60°C (-4°F to 140°F)
Relative humidity	10% to 85%RH (non-condensing)
Product weight	375g
Product size	96mm×72mm×226mm

## Product Description

### 1. Instruction to Structure



## 2. Display Description



Temperature range: the range of measuring temperature.

Color code: Used to mark the color corresponding to the relative temperature from low to high in the field of version.

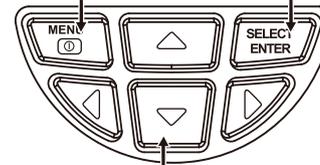
The central point temperature cursor: Used to indicate the central position in the screen area. The cursor color displays white. The temperature value is displayed top left corner of the screen.

The highest temperature cursor: Used to indicate the highest temperature position in the screen area. It will move with the movement of the highest temperature. The cursor displays red. The temperature value is displayed at bottom left corner of the screen.

The lowest temperature cursor: Used to indicate the lowest temperature position in the screen area. It will move with the movement of the lowest temperature. The cursor displays green. The temperature value is displayed at the central position of the screen.

## 3. Key Description

Menu key/On/off key      Selection key/Entry key



Navigation key: Up, down, left and right

## Initial Operation

### Product boot/shutdown

Press and hold the “MENU/⏻” button for more than 3 seconds to turn the Thermal Imaging on or off.

### LCD screen display

After turning on the power, the screen shows the thermal imaging status.

Note:

Time adjustment may be required when you move the camera between environments with widely varying ambient temperatures.

### On/off of LED lighting lamp

Long press the “SELECT/ENTER” key to power on/off the LED lighting lamp.

### Witching between infrared thermal image and visible image

press “◀” or “▶” key to switch the degree of fusion between inferred thermal images and visible images (the degree of fusion is 0%, 25%, 50%, 75% and 100%).

### Image capture

press the image capture key. When the capture is successful, the screen will display “store photo?” prompt. If “yes” is selected, please press “MENU/⏻” key to determine to save the image. If “no” is selected, press “SELECT/ENTER” key to determine not to save the image.

### Video recording

In the normal startup and running interface, long press the capture button, the screen will display the prompt “record video?”, if you want to select “Yes” at this time, please press the “MENU/⏻” button or the capture button to start recording. If you want to select “No”, press the “SELECT/ENTER” key to cancel the recording. When the recording is finished, press and hold the capture button again to end the recording.

### The function to hide highest/lowest temperature column at the screen bottom

under the operation after normal start up, press “▲” key and the screen bottom will display highest/lowest temperature column. Press “▲” can also hide it.

### Image output

The saved images through capture may be checked and output by connecting with a computer through Type-C USB.

### Read images

Open the USB protective cover as shown in ②. Use USB line to connect the USB port and then computer to read the images or save it into computers.images or save it into computers.

The supported operating system through verification includes: winxp, win7, win 8, win10, Apple system.

It is suggested to use the attached USB line or USB line with higher quality.

Note:

When connecting with a computer, pull off the data line after selecting

“pop out device safely” to avoid causing file system damage and other problems. If “unable to save” and other problems occur, you may find the hard disc in the computer and fix it.

## Introduction to the Menu

Press the left of “MENU/⏏” key and the menu bar appears. They are “image overlapping”, “image”, “video”, “color palette”, “emissivity” and “setting” submenus.

### 1. “Image Overlapping” Submenu

#### 1.1. Description of Image Overlapping

Image overlapping makes it easier for users to understand the infrared images by using aligned visible images and infrared images. The use of image overlapping can capture the visible image of every infrared image so as to display the temperature distribution in the target region correctly and share with other people more effectively.

#### 1.2. Application of Image overlapping

Press the “MENU/⏏” button to enter the main menu, and select “” (Image registration) in the main menu.

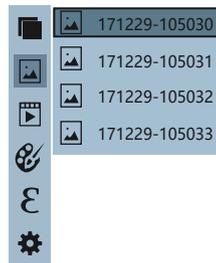
Press the “SELECT/ENTER” button to enter the image overlap adjustment mode. Press the navigation keys (up, down, left and right buttons) to perform the visible image shift operation.

Press the “SELECT/ENTER” button to exit the image blending mode (Note: If there is no operation for more than 6 seconds, the image blending mode will be automatically exited).

## 2. Introduction to “image” Sub-menu

### 2.1. View Image

Press the “MENU/⏏” button to enter the main menu, and select “” (image) in the main menu.



As shown in the figure, Then press “▶” key to enter image list. Press “▲” or “▼” key in navigation to select the image. Then press “SELECT/ENTER” key to view image.

When viewing the images, press “◀” key to view the previous image, Press “▶” to view the next image.

Press “SELECT/ENTER” key to return. Press “MENU/⏏” key to exit from the menu.

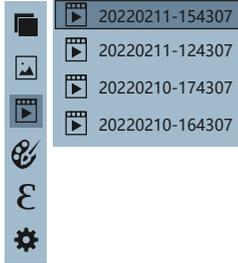
### 2.2. Delete Images

When viewing the images, the screen will show the prompt of “Delete photo?” by pressing “▲” key. If “yes” is selected at the moment, press “MENU/⏏” key to determine to delete the image. If “no” is selected, press “SELECT/ENTER” key to determine not to delete the image.

### 3. Introduction to “Video” Submenu

#### 3.1.View Video

Press “MENU/⏏” key to enter the main menu, select “▶” in the main menu(video), as shown below.



Press the “▶” key to enter the video list, press the “▲” and “▼” keys in the navigation keys to select the video, and then press the “SELECT/ENTER” key to view the video. When viewing a video (not playing), press the “◀” key to view the previous video, and press the “▶” key to view the next video.

Press the “MENU/⏏” key to exit from the menu.

#### 3.2. Delete Video

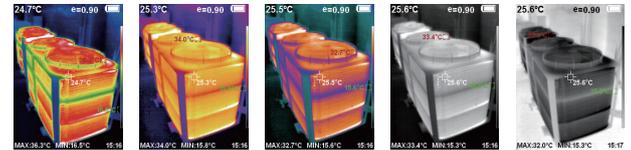
When viewing the video (if it is not playing), press the “▲” key, and the prompt “Delete video?” will appear on the screen. If you want to select “Yes” at this time, please press the “MENU/⏏” key to confirm the deletion of the video. If you want to select “No”, press the “SELECT/ENTER” key to make sure the video is not deleted.

### 4. Introduction to “Color Palette” Sub-menu

#### 4.1. Color Palette Description

The palette can be used to change the pseudo-color display of the infrared image on the display. Some tune Swatches are better suited for specific applications and can be set up as needed. The palette is divided into: rainbow, iron, cold color, white hot, black hot, five palettes. These palettes work best with high thermal contrast and provide additional color contrast between high and low temperatures. Suitable selection of color palette displays the details of the target objective better. Rainbow, iron and cold color palettes focus on display of color. Such color palettes are very suitable for high heat contrast and are used to improve the color contrast between high temperature and low temperature. But the White hot and Black hot color palettes provide even linear color.

The following is the image of the same object with selection of different color palettes.



Rainbow

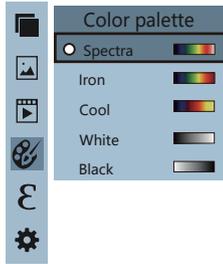
Iron

Cold color

White hot

Black hot

## 4.2. Application of Color Palette



As shown in the figure, press “MENU/⏏” key to enter the main menu and select “” (color palette) option and press “▶” key to enter the color palette list. Press “▲” and “▼” keys in navigation to select the color palette. Then press “SELECT/ENTER” key to select the color palette. Press “◀” to return. Press “MENU/⏏” key to exit from the menu.

## 5. Introduction to “Emissivity” Sub-menu

### 5.1. Emissivity Description

The emissivity of the product can be adjusted from 0.01 to 1.00 with the default value of 0.95. Many common objects and materials (such as timber, water, skin and textile fabric) can reflect the heat energy effectively. So it is easy to obtain relatively correct measurement value. The emissivity is usually set as 0.95 when the coarse objects that are easy to give out energy. For semi-matte objects that give out less energy, the emissivity is usually about 0.85 and the emissivity of semi-gloss objects is 0.6. The shiny objects are divided into materials with low radiation coefficient. The emissivity is usually set as 0.3 at the time of measurement. Correct setting

of the value of emissivity is very important for you to carry out the most correct temperature measurement. The surface emissivity will produce giant impact on surface temperature measured by the product. Understanding the surface emissivity will enable you to obtain correct temperature measurement result.

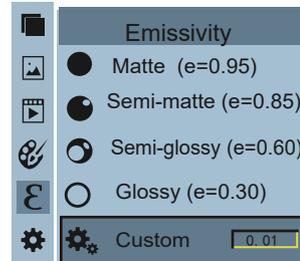
### 5.2. Emissivity Setting

The product is provided with four types of object measurement modes:

- Coarse object (0.95)
- Semi-matte object (0.85)
- Semi-shiny object (0.60)
- Shiny object (0.30)

According to the characteristics of the measured objects, users may set the emissivity value through the “self-define” option (please refer to the table of “emissivity of common materials”).

The operating step is as the following:



As shown in the figure, press “MENU/⏏” key to enter the main menu and select “ $\epsilon$ ”(emissivity) option and press “▶” key to enter the emissivity list.

Press “▲” and “▼” keys in navigation key to select the emissivity. Then press “SELECT/ENTER” key to determine selection of the emissivity. Press “◀” key again to return.

If you select "self-defined" emissivity, press the "SELECT/ENTER" button to enter the editing state. Press “◀”/“▶” keys to select the number to be changed, press “▲”/“▼” keys to change the value. After the modification is completed, press “SELECT/ENTER” to confirm, then press “◀” to return. The “MENU/⏏” button exits the menu.

### 5.3. The Emissivity Value of Common Materials

Substance	Thermal radiation	Substance	Thermal radiation
Bitumen	0.90~0.98	Black cloth	0.98
Concrete	0.94	Human skin	0.98
Cement	0.96	Foam	0.75~0.80
Sand	0.90	Charcoal dust	0.96
Earth	0.92~0.96	Paint	0.80~0.95
Water	0.92~0.96	Matte paint	0.97
Ice	0.96~0.98	Black rubber	0.94
Snow	0.83	Plastic	0.85~0.95
Glass	0.90~0.95	Timber	0.90
Ceramics	0.90~0.94	Paper	0.70~0.94
Marble	0.94	Chromium hemitrioxide	0.81
Gypsum	0.80~0.90	Copper oxide	0.78
Mortar	0.89~0.91	Ferric oxide	0.78~0.82
Brick	0.93~0.96	Textile	0.90

### 6. Introduction to “Setting” Sub-menu

Press “MENU/⏏” key to select the “”(setting) option in the main menu. Press “▶” key again to enter the “setting” sub-menu.

Settings		
Auto shutdown ▶	Auto shutdown	NO 5min 20min
Intensity ▶	Intensity	Low Medium High
Language ▶	Language	English Chinese Italian German
Unit ▶	Unit	Celsius Fahrenheit
Temperature range ▶	Range	low (-20 C~120 C) high (120 C~550 C)
Time format ▶	Time Format	24 hour AM/PM
Set time ▶	Set time	Year           2020 Month          10 Day             26 Hour            02 Minute         52 Second         03
Spot ▶	Spot	Off On

### 6.1. Auto Shutdown Setting

After entering the "Settings" sub-menu, select "MENU/☺" (automatic shutdown), press navigationThe "▶" key in the button enters the auto power off setting. Can be set to not automatically shut down or 5 points the clock is turned off or turned off in 20 minutes.

### 6.2. Intensity Settings

After selecting "☺" (brightness), press the "▶" key in the navigation key to enter the brightness setting. Can be set to low or medium or bright.

### 6.3. Language Settings

After selecting "🌐" (language), press the "▶" key in the navigation key to enter the language setting.

Available in 4 languages: English, Chinese, Italian, German.

### 6.4. Unit Setting

After selecting "°C" (unit), press the "▶" key in the navigation key to enter the temperature unit setting. Can be set to Celsius or Fahrenheit.

### 6.5. Temperature Range Setting

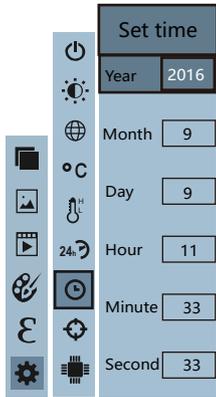
After selecting "🌡️" (temperature range), press the "▶" key in the navigation keys to enter the temperature range setting. Can be set to low temperature (-20°C to 120°C) or high temperature (120°C to 550°C).

### 6.6. Time Format Setting

After you select "24h" (time format), press the "▶" key in the navigation key to enter the time format setting. Can be set to 24 hours or 12 hours.

## 6.7. Time Setting

As shown in the figure, after selecting “  ” (set time), press “  ” in the navigation key to enter the setting time.



Press “  ” / “  ” / “  ” / “  ” to select year/month/day/hour/minute.

After selecting, press “SELECT/ENTER” key to enter the edit state.

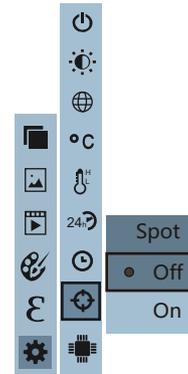
Press “  ” and “  ” keys to select the figure to be changed.

Press “  ” / “  ” key to change the value. After completing the change, press “SELECT/ENTER” to enter.

After the time setting is completed, press “  ” key to return. Press “ MENU/⏏ ” exit from the menu.

## 6.8. Enable/Disable of the Highest and Lowest Temperature Cursor

As shown in the figure, after selecting “  ” (cold hotspot), press the “  ” button in the navigation key to enter the cold hotspot setting.



Press “  ” / “  ” key to select “enable” or “disable” the option.

Then press “SELECT/ENTER” key to determine selection.

After the setting is completed, press “  ” key to return.

Press “MENU/⏏” key to exit from the menu.

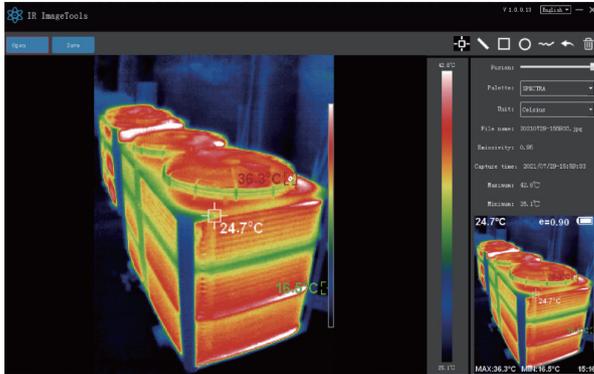
# Thermal Imaging Image Analysis Software Operation Guide

## Software Installation And Operation

1. Connect the product with a USB cable, and then connect to the computer.

Open the removable disk in the computer, find the "INSTALLATION PACKAGE" folder and open it, and click  to install the software.

2. After installation, open  Enter the picture analysis software interface,click "Open File", and select the picture to be analyzed,as shown in the figure:



## Interface Introduction

1. Select the language in the upper right corner of the interface, you can choose Chinese, English, and switch between the two languages.

2. On the right are shown as: fusion rate, color palette, temperature unit, picture information.

- Fusion rate: Moving the slider can realize the fusion of visible light image and infrared thermal image. The left end is a visible light image, and the right end is an infrared thermal image.

- Palette: In the palette, click the " ▼ " icon to choose from five color palettes: rainbow, iron red, cold, white hot, black hot.

- Temperature unit: In the temperature unit, click the " ▼ " icon to select three temperature units: Celsius, Fahrenheit, and Kelvin.

- Picture information: display file name, emissivity, capture time, maximum temperature, minimum temperature, center point temperature, original thermal image.

3. "Open File" in the upper left corner of the interface, open the thermal image to be read. When you need to save the picture after the operation, click "Save" (Note: the saved picture cannot be opened again with this software).

## Icon Introduction

1. "  " icon, take the temperature of the thermal image.
2. "  "icon, select the maximum temperature and minimum temperature of the thermal image in a straight line.
3. "  "icon, select the thermal imaging map to select the maximum temperature and minimum temperature.
4. "  " icon, circle the thermal imaging map to get the maximum temperature and the minimum temperature.
5. "  "icon, arbitrarily circle the thermal imaging map to take the maximum temperature and the minimum temperature.
6. "  "Return icon, when an operation error occurs, you can click this icon to return to the previous operation.
7. "  "Delete icon, when you select multiple temperature values and need to cancel all of them, click Delete.