



Q02

**Thermal Imaging Camera
User Manual**

Thank you for choosing us

We hope you are pleased with your purchase. Your satisfaction and trust are important to us, and we are here to help whenever you need assistance. If you have questions about usage, feel free to reach out—our support team is ready to respond and resolve issues promptly.

Contact Information

One Year Limited Warranty

We provide the original purchaser with a 12-Month Limited Warranty from the date of purchase. Under normal use and in accordance with the user manual, if the product is confirmed to have defects in materials or workmanship during the warranty period, we will provide an appropriate solution based on our technical evaluation, such as replacement parts, repair, or product replacement.

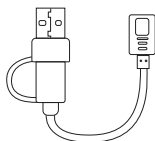
This warranty does not cover damage caused by misuse, accidental damage, improper operation, unauthorized disassembly, repair, or modification, or normal wear and tear.

To request warranty support, please contact our support team with your Order Number and a brief description of the issue. Photos or videos may be required for verification. This warranty applies only to the original purchaser and is non-transferable. If local laws differ, local laws shall prevail.

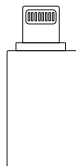
1. PACKAGE CONTENTS



Thermal Camera



USB Cable



Apple adapter

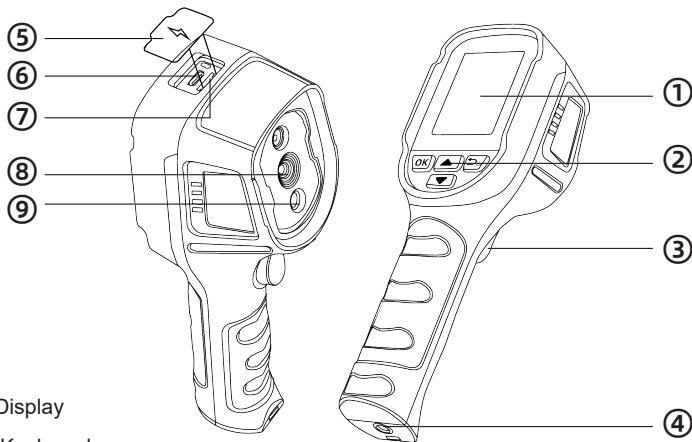


Wrist Strap



TF Card
(Pre-installed in the Device)

2. PRODUCT OVERVIEW



1. Display

2. Keyboard



OK button/menu

Short press to access the system menu, confirm an action, or message



power button

Press briefly to access the system menu, confirm an action, or acknowledge a message



up key

Press briefly to click the shutter or select the previous option



down key

Press briefly to change the false-color palette or select the next option

3. Shutter Trigger

4. Threaded Mounting Hole (1/4"-20 UNC)

5. Silicone Protective Cover

6. USB Type-C Port

7. TF Card Slot (TF Card included and pre-installed)

8. Thermal Imaging Window

9. Flashlight Window

3. POWER ON/OFF

When the device is off, press and hold the Power/Back Button for 3 seconds to turn it on.

When the device is on, press and hold the Power/Back Button for 3 seconds to turn it off.

4. DISPLAY OVERVIEW

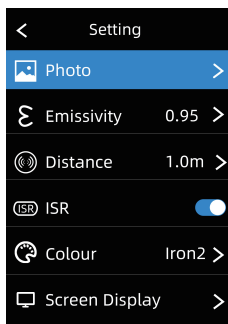


No.	Description
1	Time
2	Temperature Readings (Max/Min/Avr)
3	Lowest Temperature Point (Auto-Tracked)
4	Color Palette
5	Battery Level Indicator
6	Highest Temperature Point (Auto-Tracked)
7	Center Measurement Point

5. SETTINGS MENU

Press the OK Button to enter the Settings menu.

Press the Power/Back Button to return to the previous screen.



6. IMAGE BROWSING

In the Settings menu, select “Photo” and press the OK Button to view saved images.

You can view images from “Memory” or “TF Card”. “Memory” refers to the built-in storage of the device, and “TF Card” refers to the external memory card.

Press the OK Button to enter a folder or view a selected image. Press the Power/Back Button to return to the previous screen.

Deleting Images or Folders:

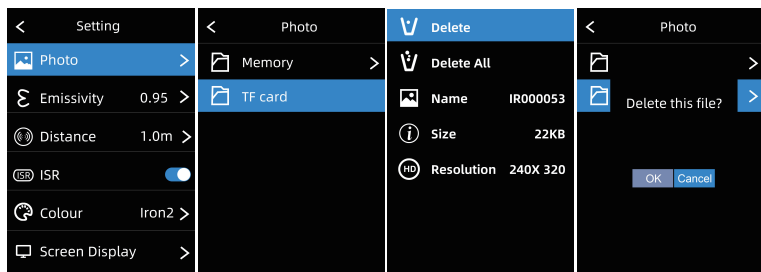
Select an image and press and hold the OK Button to open the delete options.

- Select “Delete Image” to delete the selected image.
- Select “Delete All Images” to delete all images in the current folder.

In the monthly folder list, select a folder and press and hold the OK Button to delete the folder and all images inside it.

Note:

- When a TF card is inserted, captured images are saved to the TF card by default.
- Images are automatically organized by year and month. If no folder exists for the current month, the device will create one automatically after a photo is taken.
- If only one folder remains, the system will keep that folder. In this case, only the images inside the folder can be deleted, and the folder itself cannot be deleted.

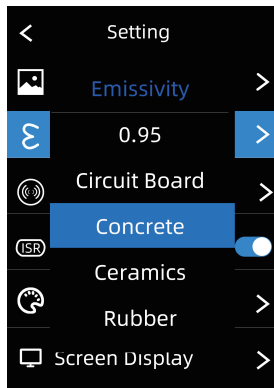
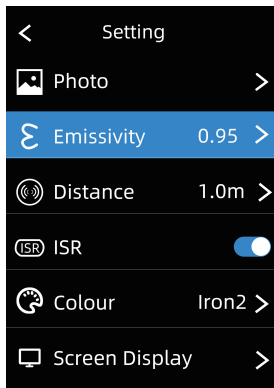


7. EMISSIVITY

In the Settings menu, use the Up/Down Button to select “Emissivity”, then press the OK Button to enter the emissivity setting screen.

Use the Up/Down Button to select the appropriate material type, then press the OK Button to confirm and display its emissivity value. Press the Power/Back Button to return to the previous screen.

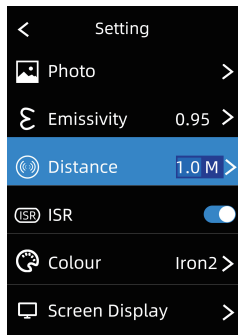
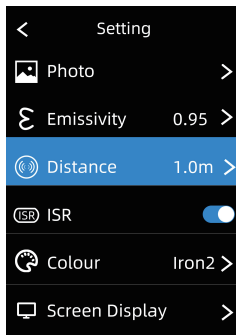
Note: Selecting the correct emissivity helps improve temperature measurement accuracy.



8. DISTANCE

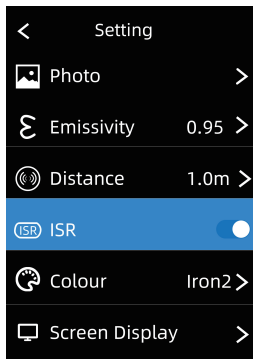
In the Settings menu, use the Up/Down Button to select “Distance”, then press the OK Button to enter the distance setting screen.

Use the Up/Down Button to set the measurement distance, then press the OK Button to confirm. Press the Power/Back Button to return to the previous screen.



9. ISR

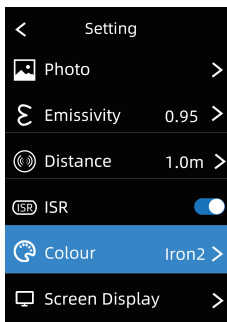
In the Settings menu, use the Up/Down Button to select “ISR”, then press the OK Button to turn ISR on or off. It is recommended to keep ISR turned on.



10. COLOUR PALETTE

In the Settings menu, use the Up/Down Button to select “Colour”, then press the OK Button to enter the colour palette setting screen.

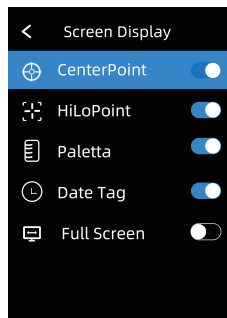
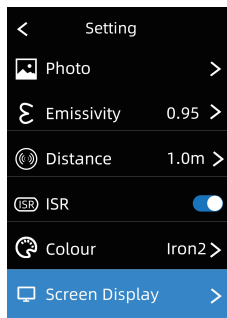
Use the Up/Down Button to select a palette style, then press the OK Button to confirm. Press the Power/Back Button to return to the previous screen.



11. SCREEN DISPLAY

In the Settings menu, use the Up/Down Button to select “Screen Display”, then press the OK Button to enter the screen display settings.

Use the Up/Down Button to select the display item you want to adjust, then press the OK Button to turn it on or off. Press the Power/Back Button to return to the previous screen.

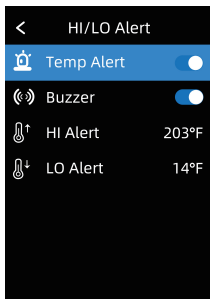
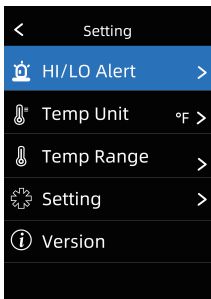


12. HIGH/LOW TEMPERATURE ALERT

In the Settings menu, use the Up/Down Button to select “HI/LO Alert”, then press the OK Button to enter the temperature alert setting screen.

Use the Up/Down Button to select the item you want to adjust, then press the OK Button to turn the selected item on or off, or to enter the value setting screen. After setting the high or low temperature value, press the OK Button to confirm. Press the Power/Back Button to return to the previous screen.

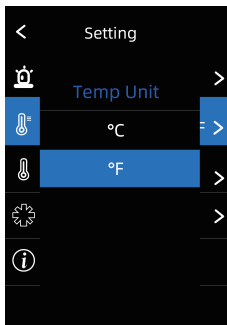
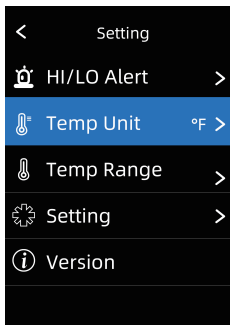
Note: The buzzer will sound only when Temp Alert is turned on. If Temp Alert is turned off, the buzzer will not sound even if Buzzer is turned on.



13. TEMPERATURE UNIT °C/°F

In the Settings menu, use the Up/Down Button to select “Temp Unit”, then press the OK Button to enter the temperature unit setting screen.

Use the Up/Down Button to select °C or °F, then press the OK Button to confirm. Press the Power/Back Button to return to the previous screen.

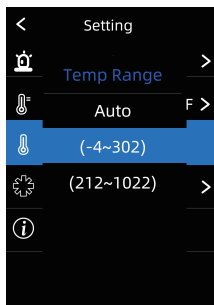
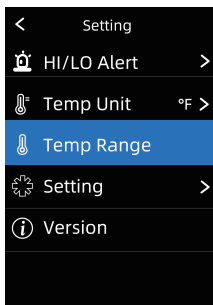


14. TEMPERATURE RANGE

In the Settings menu, use the Up/Down Button to select “Temp Range”, then press the OK Button to enter the temperature range setting screen.

Use the Up/Down Button to select the desired temperature range, then press the OK Button to confirm. Press the Power/Back Button to return to the previous screen.

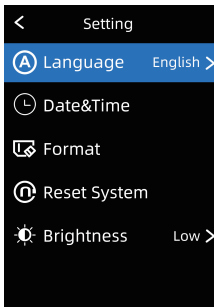
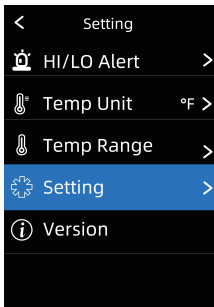
Note: Select the temperature range according to the object being measured. If you are not sure which range to use, select Auto.



15. SYSTEM SETTINGS

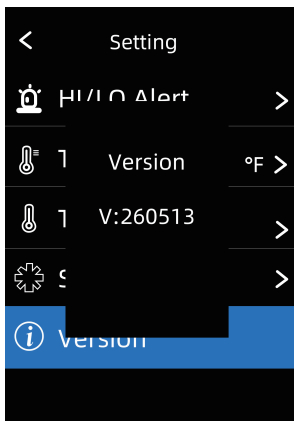
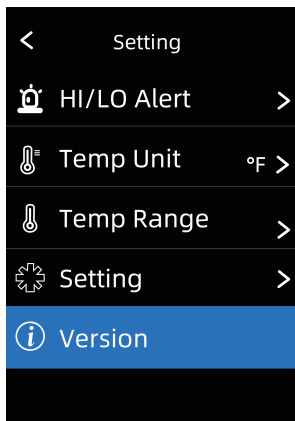
In the Settings menu, use the Up/Down Button to select “Setting”, then press the OK Button to enter the system settings screen.

Use the Up/Down Button to select the item you want to adjust, then press the OK Button to enter or adjust the selected item. Press the Power/Back Button to return to the previous screen.



16. SOFTWARE VERSION

In the Settings menu, use the Up/Down Button to select “Version”, then press the OK Button to view the current software version. Press the Power/Back Button to return to the previous screen.



17. MAINTENANCE

Turn off the device before cleaning. Clean the device housing with a soft cloth lightly dampened with alcohol if needed.

Do not use abrasives, solvents, or alcohol-based cleaners on the lens or screen.

18. TECHNICAL SPECIFICATIONS

Detector Type:	Uncooled Vanadium Oxide
Infrared Resolution:	240 × 240 pixels
Pixel Pitch:	12 μm
Thermal Sensitivity (NETD):	< 60 mK
Field of View (FOV):	50° (H) × 38° (V)
Spatial Resolution (IFOV):	7.6 mrad
Frame Rate:	≤ 25 Hz
Minimum Imaging Distance:	0.1 m
Temperature Measurement Range:	-4°F to 1022°F (-20°C to 550°C)
Temperature Measurement Accuracy:	±3.6°F (±2°C)
Temperature Measurement Resolution:	0.1°F / 0.1°C
Display:	2.4-inch TFT LCD
Image Storage:	Internal storage / TF Card supported
Battery:	Rechargeable lithium battery (3.7V / 2600mAh)
Battery Operating Time:	Up to 7 hours
Charging Time:	≤ 4 hours
Operating Temperature:	32°F to 122°F (0°C to 50°C)

19. FAQ

Q1 Why does the device make a clicking sound during use?

This is normal. The clicking sound is caused by the internal shutter of the infrared camera performing an automatic calibration to maintain image clarity. During this process, the screen may briefly pause. This does not indicate a malfunction.

A

Q2 Can the device measure through glass, water, or walls?

A No. This device detects infrared energy from the surface of an object and is intended only for surface temperature measurement. It cannot accurately measure the temperature of objects behind glass, water, or walls.

Q3 Why do measurement results vary at different distances?

A Infrared radiation is attenuated as it passes through the air. The greater the distance, the greater the attenuation. As a result, measurement accuracy decreases as the distance increases. To improve accuracy, enter the actual measurement distance in the Distance setting to obtain a corrected temperature reading.

Q4 Why might the measured temperature differ from the actual temperature?

A Measurement results may be affected by factors such as distance, emissivity, reflective surfaces, ambient temperature, and measurement settings. Before measuring, make sure the correct temperature range is selected in Settings.

Q5 What factors can affect measurement accuracy?

A The following factors may affect measurement accuracy:

- a) Surface emissivity of the object
- b) Reflected ambient temperature: The object may reflect infrared radiation from surrounding objects, which can affect the measurement result.
- c) Atmospheric temperature: The air itself also emits infrared radiation.
- d) Atmospheric transmittance: Infrared radiation may be attenuated as it travels through the air.
- e) Distance: The greater the distance, the greater the attenuation of infrared radiation in the air.

Q6 How do I transfer images to a computer?

A Connect the device to a computer using the included USB cable. The saved images can then be accessed and transferred from the device storage or TF card.



Q02

热成像仪使用说明

感谢你选择我们

我们希望您对此次购物感到满意。您的满意与信任对我们而言至关重要，无论您何时需要帮助，我们都会竭诚为您效劳。如果您在使用过程中有任何疑问，请随时与我们联系，我们的支持团队已做好准备，随时准备做出回应并迅速解决问题。

联系信息

一年有限保修

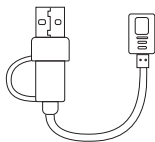
我们向原始购买者提供自购买之日起为期1.2个月的有限保修服务。在正常使用且遵循用户手册的前提下，若产品在保修期内被确证存在材料或工艺方面的缺陷，我们将根据我们的技术评估结果提供适当的解决方案，包括但不限于更换零部件、进行维修或更换产品。本保修不涵盖因误用、意外损坏、操作不当、未经授权的拆卸、维修或改装，或正常磨损造成的损害。

如需申请保修服务，请提供您的订单编号及问题简要描述，并联系我们的支持团队。可能需提供照片或视频以作验证。本保修仅适用于原始购买者，且不可转让。若当地法律与此规定有所不同，则以当地法律为准。

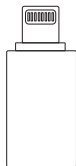
1.包装内容



热成像相机



USB数据线



苹果转接头

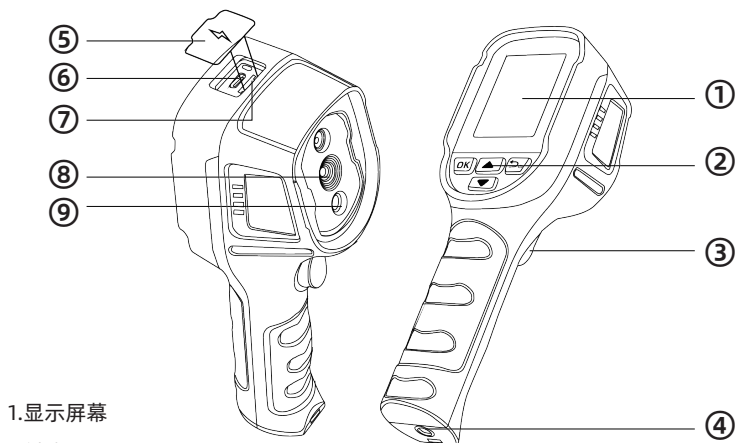


腕带



TF卡
(预装在设备中)

2. 产品概述



确认按钮/菜单

短按可打开系统菜单，或确认选项或提示。



电源按钮

短按返回上一级菜单或开关手电筒；长按开机/关机。



上键

短按切换伪彩色调色板或返回上一项选项。



下键

短按切换伪彩色调色板或跳至下一项选项。

3. 快门触发器

4. 螺纹安装孔(1/4"-20UNC)

5. 硅胶保护盖

6. USB Type-C 接口

7. TF 卡插槽(包含并预装 TF 卡)

8. 热成像窗口

9. 手电筒窗口

3.电源开关

当设备关闭时，按住电源/返回按钮3秒以打开它。

当设备开启时，长按电源/返回按钮3秒以关闭设备。

4.显示概览



No.	描述
1	时间
2	温度读数(最大/最小/平均)
3	最低温度点(自动追踪)
4	颜色调色板
5	电池电量指示器:
6	最高温度点(自动追踪)
7	中心测量点

5.设置菜单

按下OK按钮进入设置菜单。按下电源/返回按钮以返回上一屏幕。



6.图像浏览

在设置菜单中，选择“照片”并按下确认按钮以查看已保存的图像。

您可以查看来自“内存”或“TF卡”的图像。“内存”指设备的内置存储，“TF卡”指外部存储卡。

按下OK按钮进入文件夹或查看选定的图像。按下电源/返回键返回上一屏幕。

删除图片或文件夹:选择一张图片并长按OK按钮以打开删除选项。

- 选择“删除图像”以删除所选图像。

- 选择“删除所有图片”以删除当前文件夹中的所有图片。

在月度文件夹列表中，选择一个文件夹并长按确认键，即可删除该文件夹及其内部的所有图片。

注意:

- 当插入TF卡时，默认情况下拍摄的图像将保存到TF卡中。

图片会按年月自动整理。如果当前月份没有文件夹，则在拍摄照片后设备会自动创建一个文件夹。

- 如果仅剩一个文件夹，系统将保留该文件夹。在这种情况下，只能删除该文件夹内的图片，而不能删除该文件夹



7.发射率

在设置菜单中，使用上下按钮选择“发射率”，然后按下确认按钮进入发射率设置界面使用上下按钮选择合适的材料类型，然后按下确认按钮以确认并显示其发射率值。按下电源/返回按钮可返回上一屏幕。

注意:选择正确的发射率有助于提高温度测量的准确性。



8. 距离

在设置菜单中，使用上下按钮选择“距离”，然后按下确认按钮进入距离设置界面。使用上下按钮设置测量距离，然后按下确认按钮以确认。

按电源/返回按钮返回上一屏幕。



9. ISR

在设置菜单中，使用上下按钮选择“ISR”，然后按下确认按钮以开启或关闭ISR。建议保持ISR处于开启状态。



10. 颜色调色板

在设置菜单中，使用上下按钮选择“颜色”，然后按下确认按钮进入颜色调色板设置界面。

使用上下按钮选择调色板样式，然后按下确认按钮以确认。按下电源/返回按钮可返回上一屏幕。



11. 屏幕显示

在设置菜单中，使用上下按钮选择“屏幕显示”，然后按OK键进入屏幕显示设置。

使用上下按钮选择要调整的显示项目，然后按OK按钮打开或关闭。

按下电源/返回按钮返回上一屏幕。



12. 高温/低温警报

在设置菜单中，使用上下按钮选择“HI/LO警报”，然后按下OK按钮进入温度警报设置界面。使用上/下按钮来选择你想要调整的项，然后按下确认按钮以开启或关闭所选项，或进入数值

设置界面。设定完高或低温度值后，按下确认按钮予以确认。按下电源/返回按钮可返回到前一界面。

注意:蜂鸣器仅在温度警报开启时才会发声。如果温度警报关闭，即使蜂鸣器已开启，也不会发出声音。



13. 温度单位°C/°F

在设置菜单中，使用上下按钮选择“温度单位”，然后按下确认按钮进入温度单位设置界面。

使用上下按钮选择°C或°F，然后按OK键确认。按电源/返回键返回上一屏幕。



14. 温度范围

在设置菜单中，使用上下按钮选择“温度范围”，然后按下确认按钮进入温度范围设置界面。

使用上下按钮选择所需的温度范围，然后按下确认按钮进行确认。按下电源/返回按钮可返回上一屏幕。

注意:根据被测物体选择温度范围。如果不确定应使用哪个范围，请选择自动模式。



15. 系统设置

在设置菜单中，使用上下键选择“Setting”，然后按OK键进入系统设置界面。

使用上下按钮选择要调整的项目，然后按下确认按钮进入或调整所选项目。按电源/返回按钮返回上一屏幕。



16. 软件版本

在设置菜单中，使用上下按钮选择“版本”，然后按下确认按钮查看当前软件版本。
按电源/返回键返回上一屏幕。



17. 维护

清洁前请关闭设备。如有需要，可用酒精轻浸的软布清洁设备外壳。
请勿在镜头或屏幕表面使用研磨剂、溶剂或含酒精的清洁剂。

18. 技术规格

探测器类型:	非冷却型氧化钒
红外分辨率:	240x240像素
像素间距:	12微米
热灵敏度(NETD)	小于60毫开尔文
视场角(FOV)	50°(H)x38°(M)
空间分辨率(IFOV)	7.6毫弧度
帧率:	≤25赫兹
最小成像距离:	0.1米
温度测量范围:	-4°F至1022°F (-20°C至550°C)
温度测量精度:	+3.6°F(+2°C)
温度测量分辨率:	0.1°F/0.1°C
显示:	2.4英寸TFTLCD
图像存储:	支持内部存储/TF卡
电池:	可充电锂电池(3.7V/2600mAh)
电池工作时间:	最长7小时
充电时间:	4小时
工作温度:	32°F至122°F(0°C至50°C)

19. FAQ

Q1 为什么设备在使用过程中会发出咋嗒声?

A 这是正常现象。产生咔哒声的原因是红外相机的内部快门在进行自动校准操作，以保持图像清晰度。在此过程中，屏幕可能会短暂停顿。这并不代表设备出现故障。

Q2 该设备能否穿透玻璃、水或墙壁进行测量？

A 否。该设备能够探测物体表面发出的红外能量，但仅适用于表面温度测量用途，它无法准确测量玻璃、水或墙体背后物体的温度。

Q3 为什么测量结果在不同距离下会有所不同？

A 红外辐射在穿过空气的过程中会被衰减。距离越远，衰减量就越大。因此，随着距离的增加，测量准确性会降低。为提高准确性，请在“距离设置”中输入实际测量距离，以获取经校正后的温度读数。

Q4 为什么测量温度可能与实际温度不同？

A 测量结果可能会受到多种因素的影响，如距离、发射率、反射面、环境温度以及测量设置等。在进行测量前，请务必确保在“设置”中选择了正确的温度范围。

Q5 哪些因素会影响测量精度？

A 以下因素可能影响测量精度：

- a) 物体表面发射率
- b) 反射环境温度：物体可能会反射周围物体的红外辐射，这可能影响测量结果。
- c) 大气温度：空气本身也会发射红外辐射。
- d) 大气透射率：红外辐射在通过空气时可能会被衰减。
- e) 距离：距离越大，空气中红外辐射的衰减越明显。

Q6 如何将图像传输到计算机？

A 使用附带的USB线将设备连接到计算机。然后可以从设备存储或TF卡中访问并传输已保存的图像。