



HIKMICRO
UD38456B MiniX
Thermal Imager



HIKMICRO UD38456B MiniX Thermal Imager User Guide

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HIKMICRO UD38456B MiniX Thermal Imager



Specifications

- Thermal Imager Model: MINI X
- Power Input: 5 VDC, 2 A
- Connectivity: USB-C, USB-A, Bluetooth
- Operating System Compatibility: iOS 14.0 and Android 7.0 or higher
- Mounting: Surface Mount (M3 screws), Phone Mount, Tripod Mount (UNC 1/4-20)
- Software: HIKMICRO Viewer, HIKMICRO Analyzer (Windows 7+, 64bit)

Product Usage Instructions

Main Components and Parts

The MINI X Thermal Imager includes components such as the thermal camera lens, visual camera lens, power button, and various mounting options.

Operations (in APP)

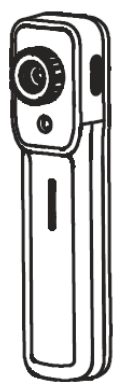
1. **Live View:** Adjust temperature measurement parameters for accurate readings.
2. **Measurement Tools:** Add tools like center spot, hot spot, cold spot for specific measurements.
3. **Palette Bar Level & Span:** Highlight targets based on temperature range selected for palette bar.

FAQ

Q: How do I adjust the emissivity settings on the thermal imager?

A: In the HIKMICRO Viewer app, navigate to the parameters section and set the target emissivity for more accurate measurements.

Main Components



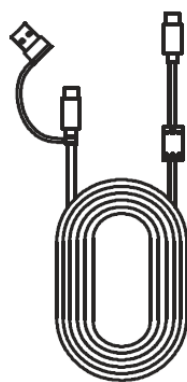
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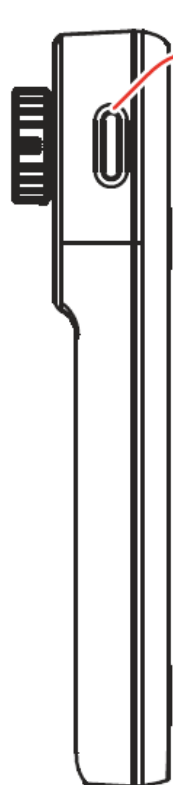


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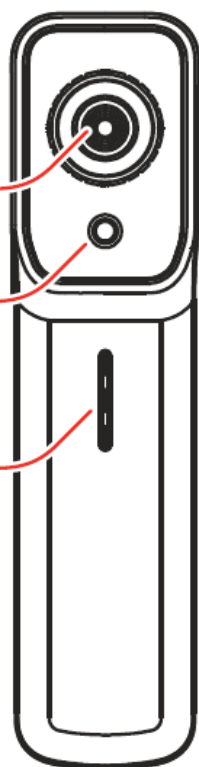


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Main Parts



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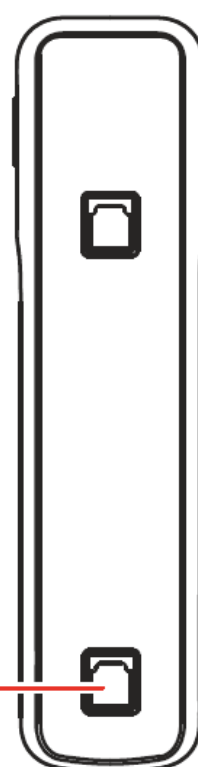
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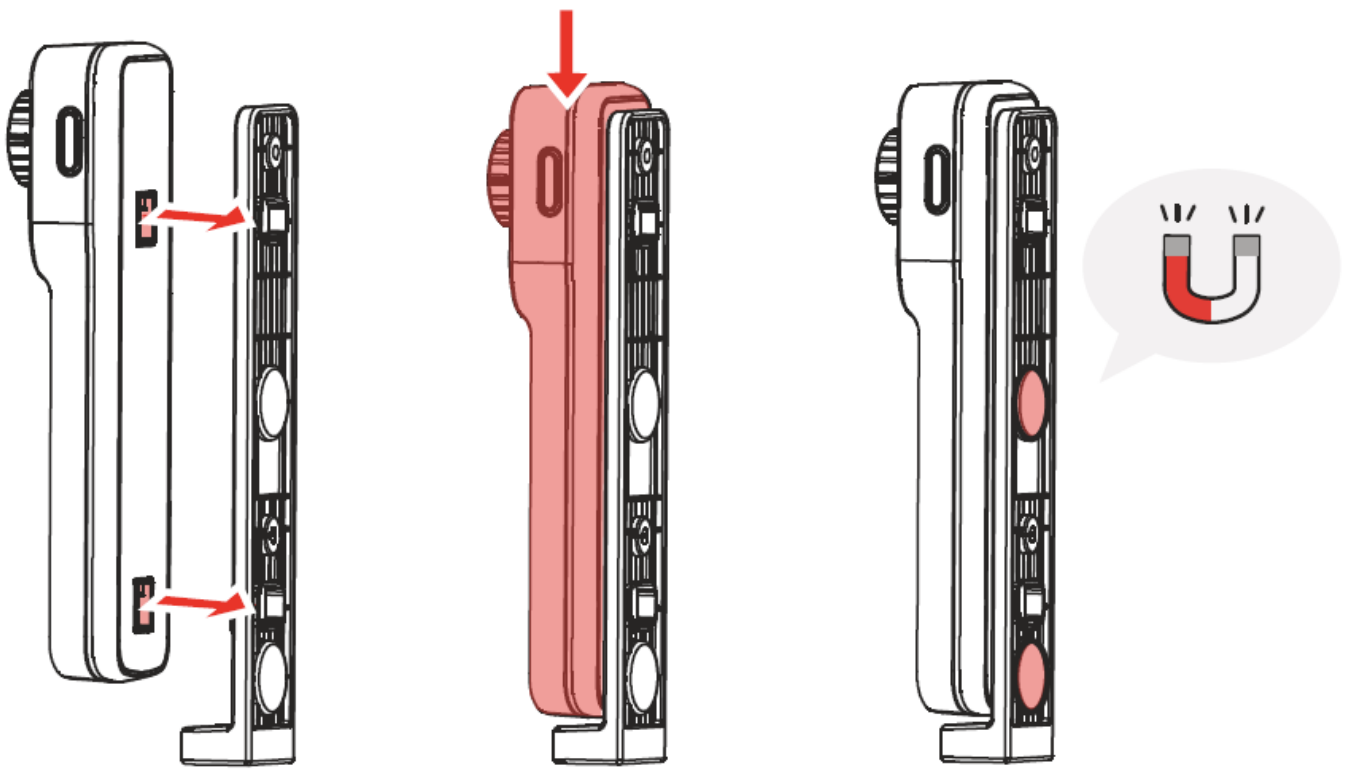


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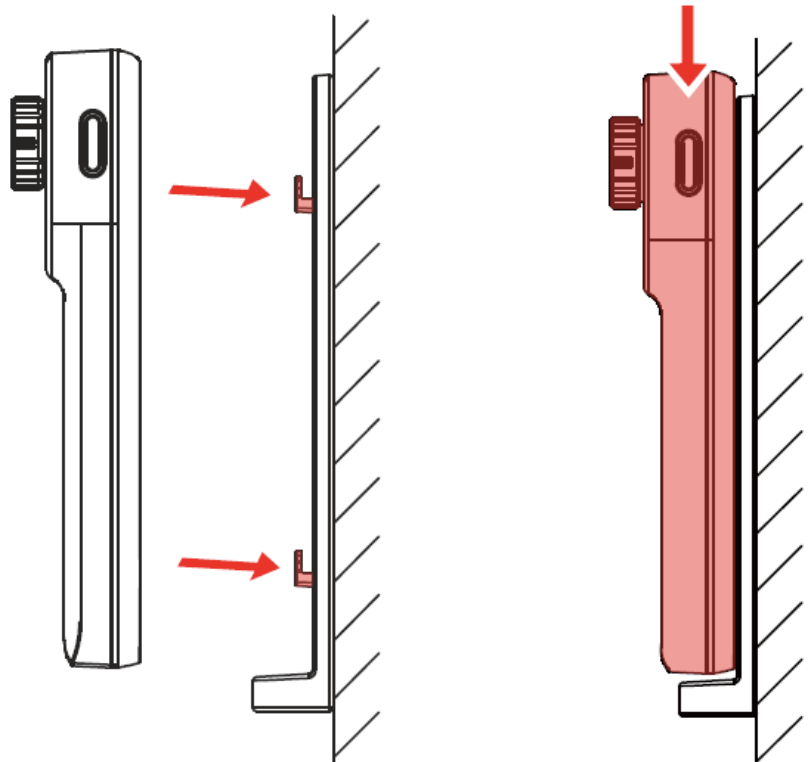
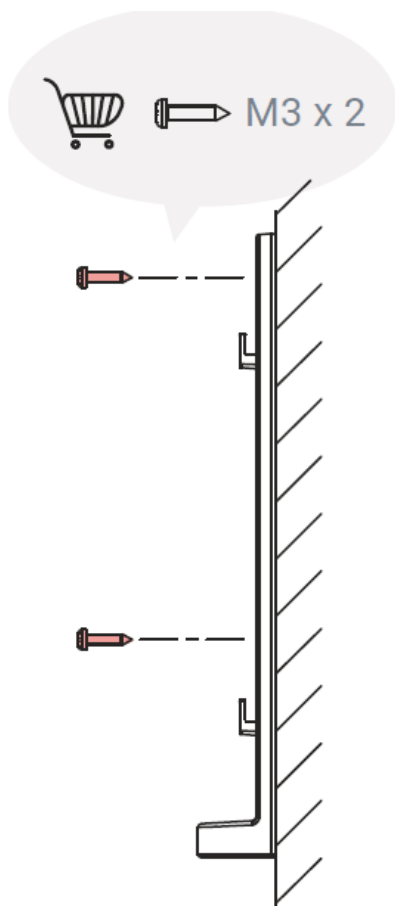
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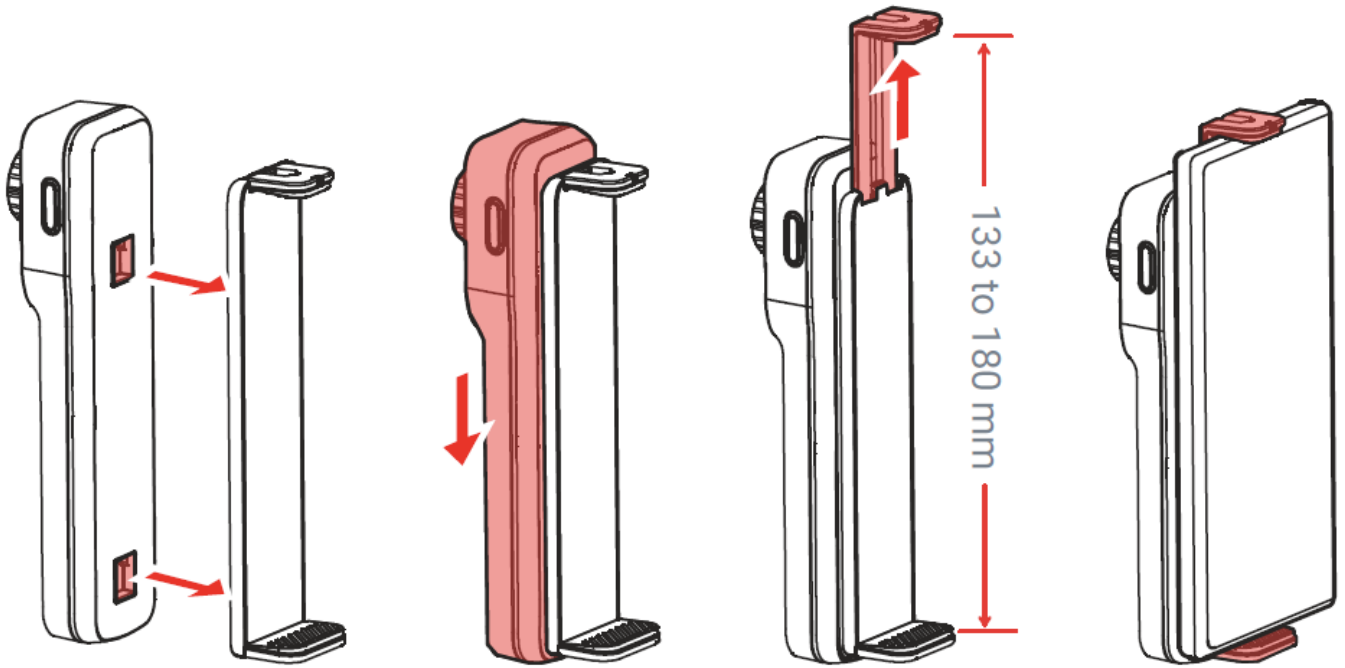
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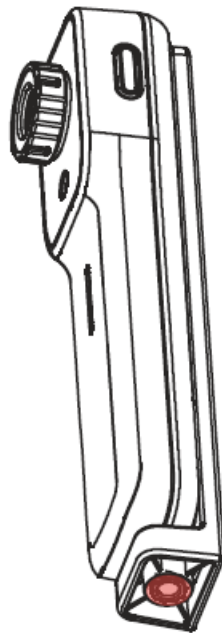
Surface Mount



Phone Mount



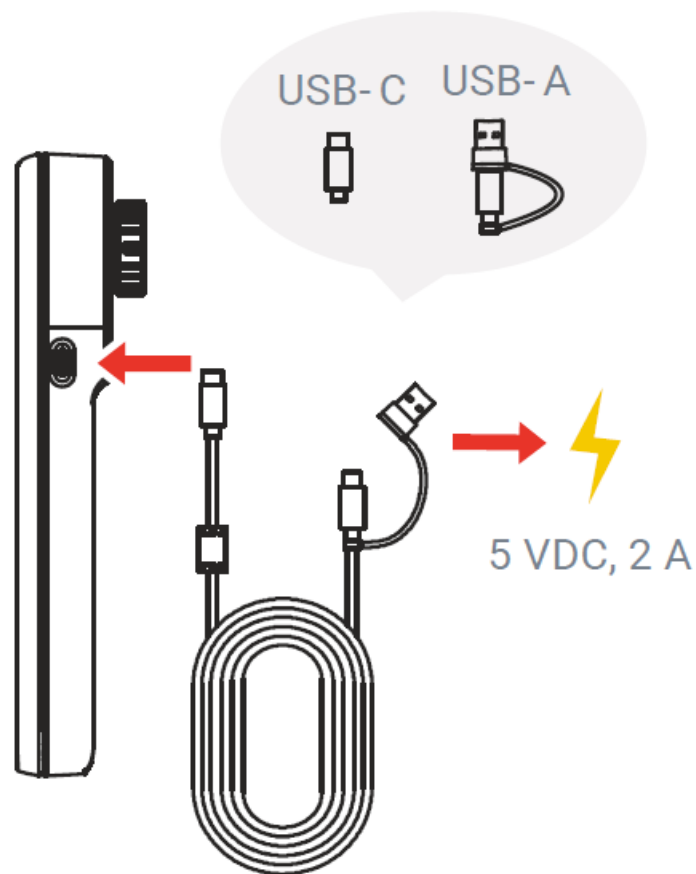
Tripod Mount



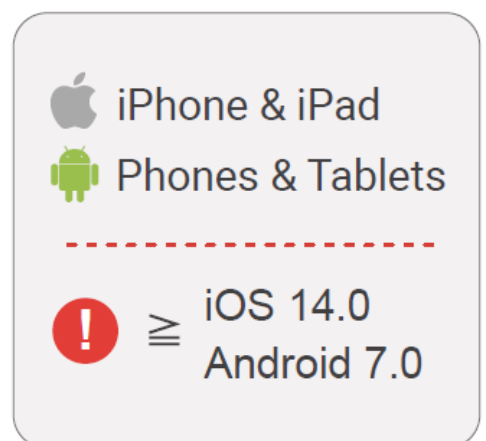
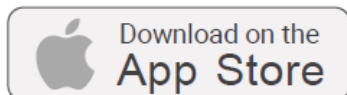
UNC 1/4"-20



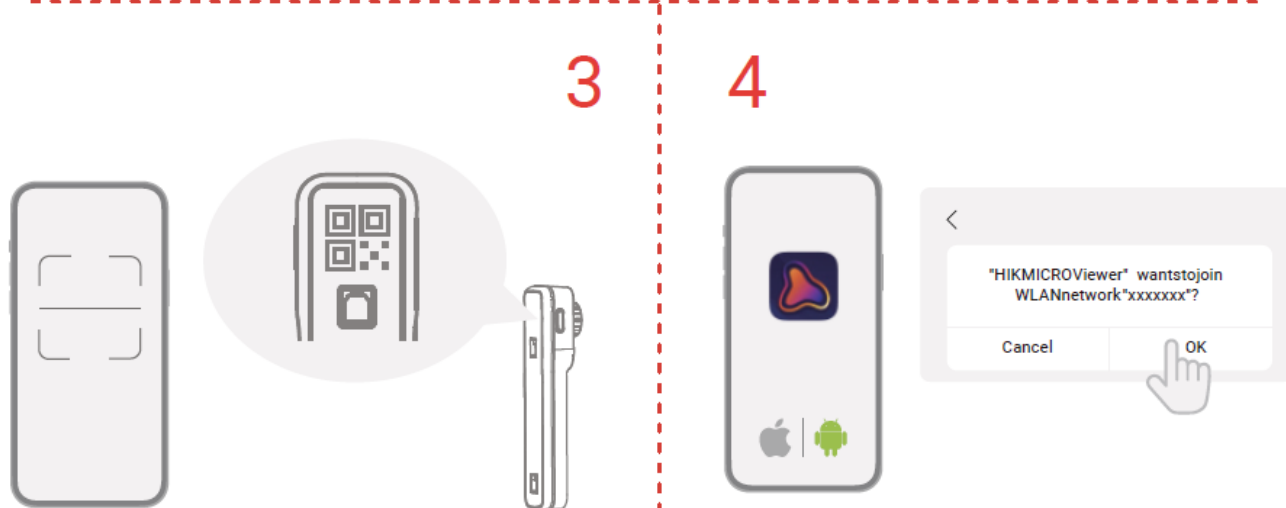
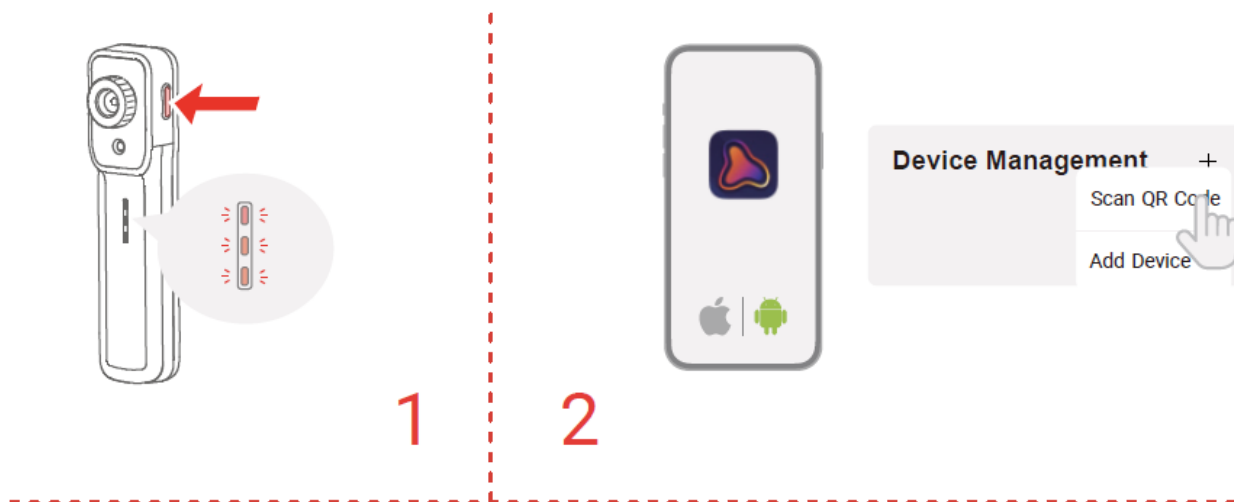
Charging



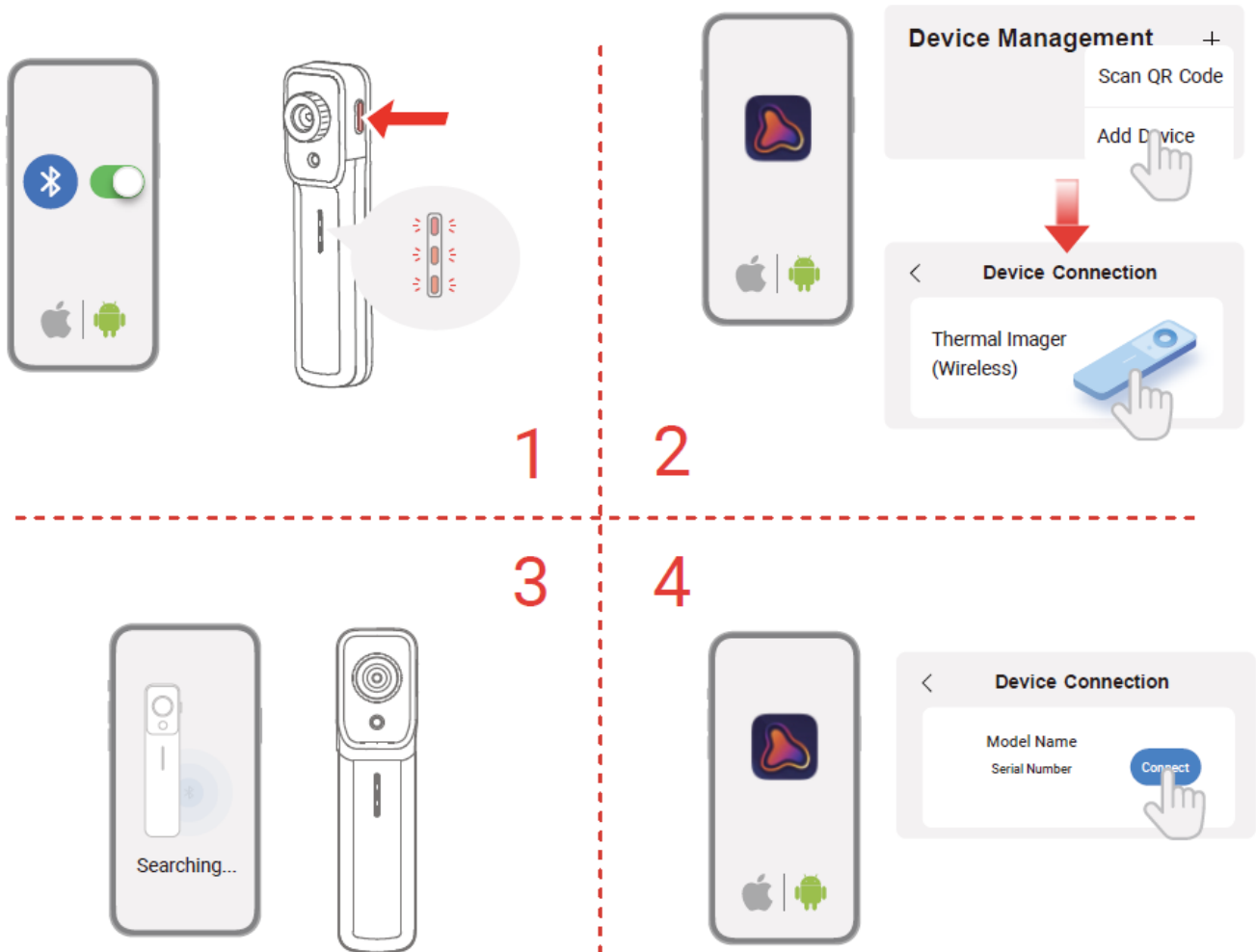
Install APP



Connect by Imager QR Code

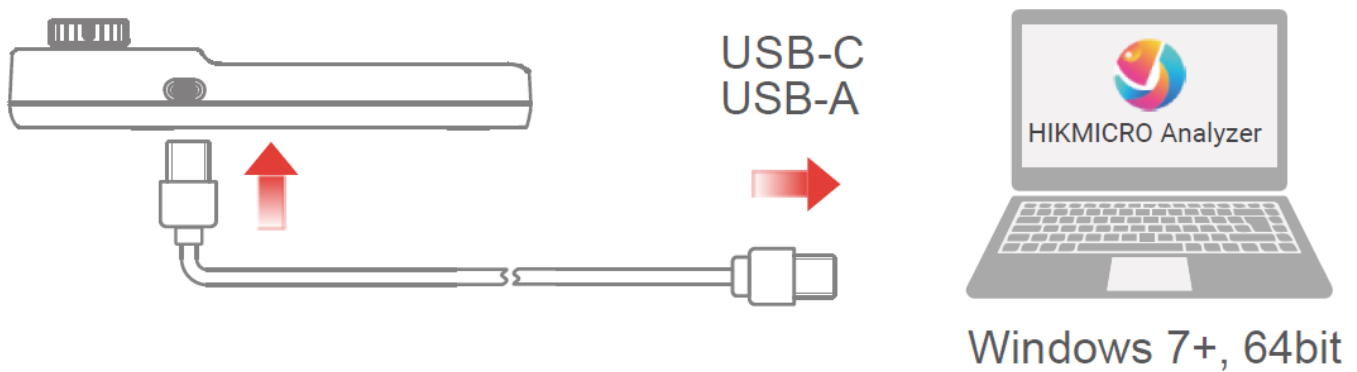


Connect by Bluetooth



Using HIKMICRO Analyzer

www.hikmicrotech.com/en/industrial-proucts/hikmicro-analyzersoftware.html



Main 1 & 2 Components and Parts

1. Thermal imager.
2. Surface mount holder. Screws are not included.
3. Phone mount holder.
4. USB cable. USB-C to USB-C/USB-A.
5. Imager case.
6. Power button. Hold to power on/off.
7. Thermal camera lens.

8. Visual camera lens.
9. 3 status indicators.
10. Focus ring.
11. USB-C port for charging and data transferring.
12. Mounting holes.

Indicators Status

- **3 indicators running from top to bottom**

Thermal imager starting.

- **Indicators solid on**

Number of solid indicators stands for remaining battery.

- **2 lower indicators flashing alternatively**

Charging or battery exception occurs.

- **3 indicators running from bottom to top**

Charging normally.

Imager Mounting

Surface Mount

Use surface mount holder.

- On magnetic surfaces: attach the holder directly.
- On non-magnetic surfaces: screw the holder to the surface.
Use M3 screws (not included in box). Do Not place other objects on the imager.

Phone Mount

Use phone mount holder.

Tripod Mount

Use surface mount holder. Connect to a UNC 1/4"-20 tripod (not included in box).

Imager Charging

- Use supplied USB cable to charge the imager.
- Power input: 5 VDC, 2 A (power adapter is not included)
- For the first time use, charge the imager for at least 1.5 hours in power-off status.

5 & 6 Mobile Device Connection

- For connecting by Bluetooth, Bluetooth, Nearby Device, WLAN and Location permissions may be required.
- For connecting by imager QR code, Camera and WLAN permissions may be required.
- Required permissions for Android and iOS are different.
- If the thermal imager is connected to other mobile device, disconnect first and retry.

Operations (in APP)

Live View



Parameters

Adjust the temperature measurement parameters for more accurate measurements.

	Emissivity	Set the target emissivity.
	Distance	Distance from the camera to target.
	Temperature Range	Temperature measurement range. Auto is recommended.
	Temp. Unit	Set the unit to °C, °F or K.

Measurement

Add temperature measurement tools for specific measurements.

Center spot	Hot spot	Cold spot	Custom spot	Line	Rectangle

Palette Bar Level & Span

Based on the selected temperatures for palette bar, the target of interest will be highlighted on the image.

	Auto	The temperature range for palette bar automatically adjusts.
	Manual	Swipe the temperature value to adjust the range manually.

Advanced Settings & Calibration

	SuperIR	Switch on to get an enhanced thermal image with SuperIR technology.
	Live View Mode	View live image in thermal, fusion, visual, picture in picture or blending mode.
	Auto Calibration	Switch on/off the auto-calibration for the camera.
	Manual Calibration	Trigger a calibration for the imager manually.

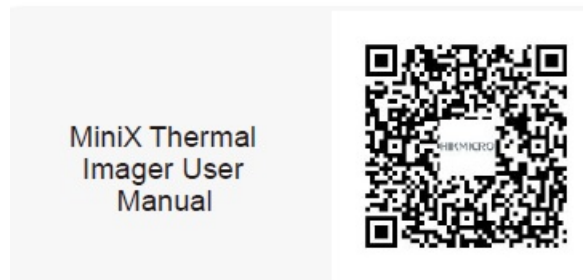
Image calibration helps to optimize image quality and temperature measurement accuracy. During the calibration, the image will pause briefly and you'll hear a "click" as a shutter moves in front of the detector. You can turn off the automatic calibration for smooth display. But keeping it off for a long time will cause image abnormal and temperature measurement inaccurate. In this case, you can use manual calibration instead.

Albums

Save Pictures to Phone

Go to Settings > General and switch on Save Pictures to Phone. The pictures captured in the App afterwards will be auto-saved to the phone album.

More



About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the HIKMICRO website (www.hikmicrotech.com). Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

Laws and Regulations

Use of the product must be in strict compliance with the local electrical safety regulations.

Technical Support

<https://www.hikmicrotech.com/en/contact-us.html> portal will help you as a HIKMICRO customer to get the most out of your HIKMICRO products. The portal gives you access to our support team, software and documentation, service contacts, etc.

Power Supply

- The input voltage should meet the Limited Power Source (5 VDC, 2 A) according to the IEC61010-1 standard. Please refer to technical specifications for detailed information.
- Make sure the plug is properly connected to the power socket.
- DO NOT connect multiple devices to one power adapter, to avoid over-heating or fire hazards caused by overload.

Battery

- The built-in battery cannot be dismantled. Please contact the manufacture for repair if necessary.
- CAUTION: Risk of explosion if the battery is replaced by an incorrect type.
- Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.

- Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.
- Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.
- Dispose of used batteries according to the instructions.

Maintenance

- If the product does not work properly, please contact your dealer or the nearest service center. We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.
- Wipe the device gently with a clean cloth and a small quantity of ethanol, if necessary.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the device may be impaired.

Using Environment

- Make sure the running environment meets the requirement of the device. The operating temperature shall be - 10 °C to 50 °C (14 °F to 122 °F), and humidity shall be 95% or less.
- Place the device in a dry and well-ventilated environment.
- DO NOT expose the device to high electromagnetic radiation or dusty environments.
- DO NOT aim the lens at the sun or any other bright light.
- When any laser equipment is in use, make sure that the device lens is not exposed to the laser beam, or it may burn out.
- The level of protection is IP 54.

Transportation

- Keep the device in original or similar packaging while transporting it.
- Keep all wrappers after unpacking them for future use. In case of any failure occurred, you need to return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the device and the company shall not take any responsibility.
- Do not drop the product or subject it to physical shock. Keep the device away from magnetic interference.

Emergency

- If smoke, odor, or noise arises from the device, immediately turn off the power, unplug the power cable, and contact the service center.

Calibration Service

Please contact the local dealer for information on maintenance points. For more detailed calibration services, please visit <https://www.hikmicrotech.com/en/support/>

Manufacture Address

Room 313, Unit B, Building 2, 399 Danfeng Road, Xixing Subdistrict, Binjiang District, Hangzhou, Zhejiang 310052, China Hangzhou Microimage Software Co., Ltd.

COMPLIANCE NOTICE: The thermal series products might be subject to export controls in various countries or

regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities.

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Regulatory Information

These clauses apply only to the products bearing the corresponding mark or information.



EU Conformity Statement

This product and – if applicable – the supplied accessories too are marked with “CE” and comply therefore with the applicable harmonized European standards listed under the Directive 2014/30/EU (EMCD), Directive 2014/35/EU (LVD), Directive 2011/65/EU (RoHS).

Hereby, Hangzhou Microimage Software Co., Ltd. declares that this device (refer to the label) is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:


<https://www.hikmicrotech.com/en/support/download-center/declaration-of-conformity/>

Frequency Bands and Power


The frequency bands and transmitting power (radiated and/or conducted) nominal limits applicable to the following radio equipment are as follows: Wi-Fi 2.4 GHz (2.4 GHz to 2.4835 GHz): ≤19 dBm; Wi-Fi 5 GHz (5.15 GHz to 5.25 GHz): ≤17 dBm

- Bluetooth 2.4 GHz (2.4 GHz to 2.4835 GHz): <10 dBm
- RF Exposure Information: This device has been tested and meets applicable limits for Radio Frequency (RF) exposure.
- For the device without a supplied power adapter, use the power adapter provided by a qualified manufacturer. Refer to the product specification for detailed power requirements.



-  Directive 2012/19/EU (WEEE Directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info



-  Directive 2006/66/EC and its amendment 2013/56/EU (Battery Directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info

Industry Canada ICES- 003 Compliance

This device meets the CAN ICES-003 (B) / NMB-003 (B) standards requirements.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.


This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

1. the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

www.hikmicrotech.com HIKMICRO
support@hikmicrotech.com



Documents / Resources

	<p>HIKMICRO UD38456B MiniX Thermal Imager [pdf] User Guide UD38456B, UD38456B MiniX Thermal Imager, UD38456B, MiniX Thermal Imager, Thermal Imager, Imager</p>
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References

- [Hikvision - Leading the future of AIoT](#)
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