



Thermal Imager Mini Series User Manual



Contact Us

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1 Introduction

1.1 Thermal Imager and HIKMICRO Viewer

The thermal imager (hereinafter refers to as **the Device** or **the Imager**) is an infrared thermal camera connected to mobile devices like smartphones or pads with Android or iOS systems through Type-C port. The imager needs to work with the HIKMICRO Viewer (hereinafter refers to as **the App**).

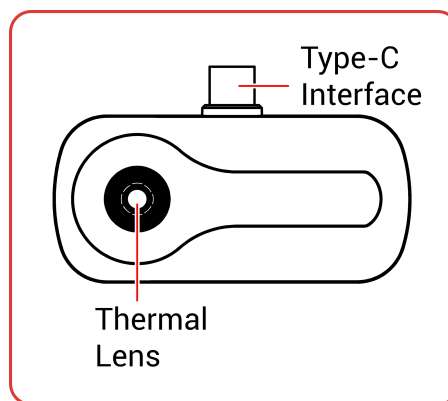


Figure 1-1 Thermal Imager Appearance



This manual describes and explains the features for multiple thermal imagers.

1.2 Download HIKMICRO Viewer

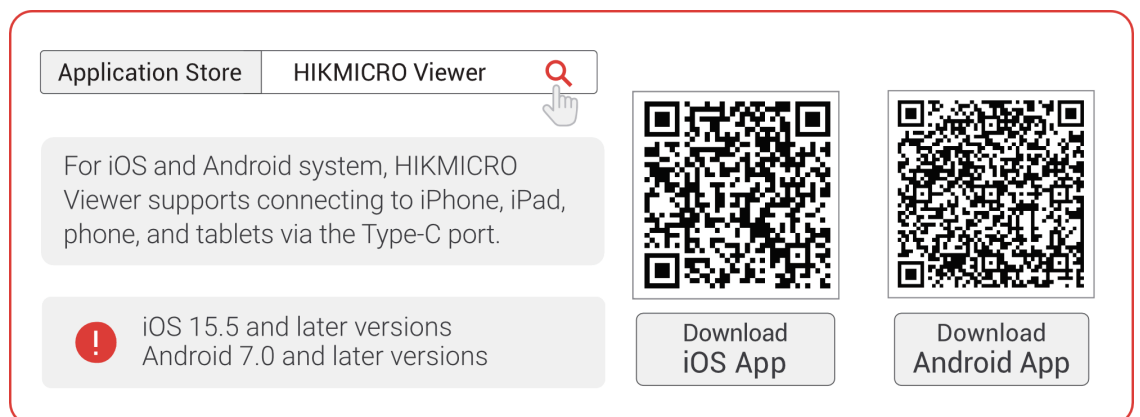


Figure 1-2 HIKMICRO Viewer QR Code

1.3 Connect Thermal Imager and HIKMICRO Viewer

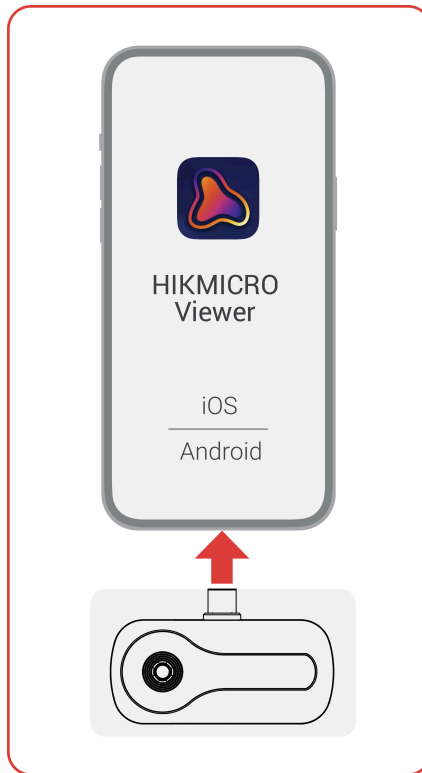


Figure 1-3 Connect Thermal Imager to the APP



- The thermal imager in figure above is for demonstration ONLY.
- If connected successfully, "Connected" will show on the home screen.
- Purchase OTG-enabled adapters or cables as needed.
- The Lightning Adapter and the Type-C Extension Cord cannot be used

together.



1.4 User Manual

In the home screen, tap **Device Info** > **Help** for detailed information about the device.

2 Live View

In **Live View**, users can adjust and calibrate thermal image, measure temperatures, change palettes, etc.

2.1 Live View Interface

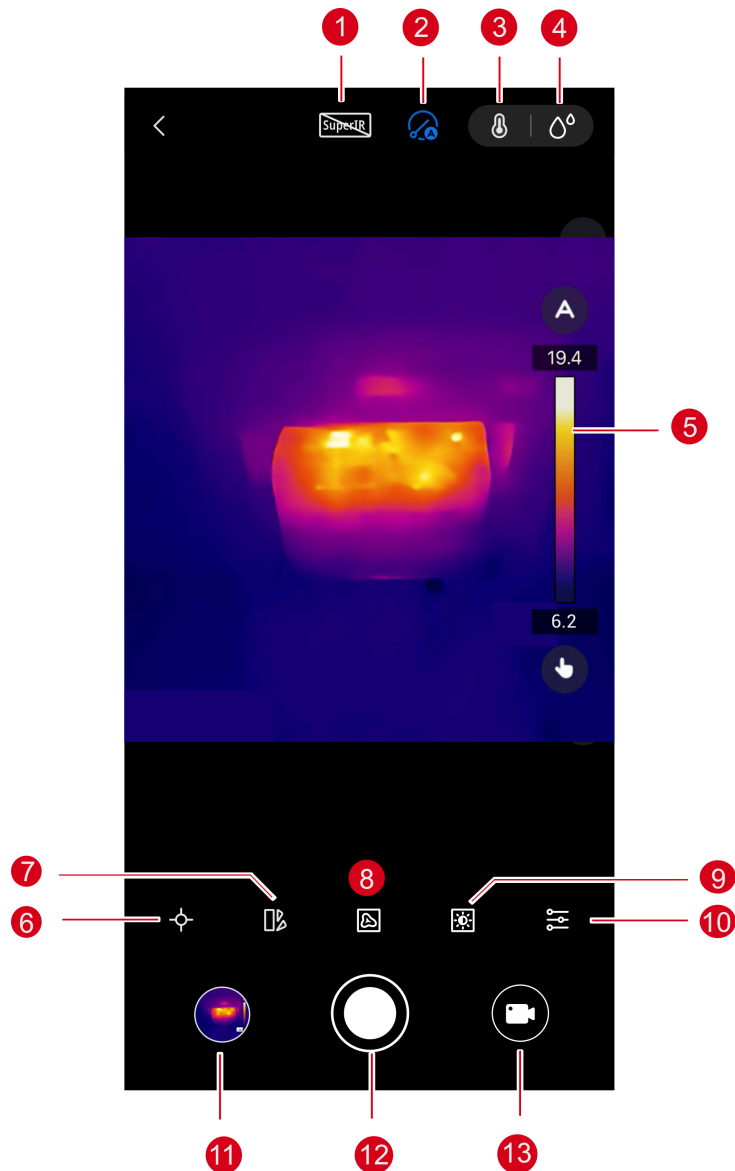


Figure 2-1 Live View Interface



This picture is for demonstration ONLY. Please refer to your actual device for available operations.

Table 2-1 Live View Interface Icons

No.	Functions	Description
1	SuperIR	Enhance the object outlines for better image display.
2	Image Calibration	Correct image uniformity to improve image quality and temperature measurement accuracy.
3	Measurement Parameters	Set key parameters such as temperature measurement distance and emissivity to ensure the measurement accuracy.
4	SuperScene Mode	Users can switch scenes freely and perform detection quickly.
5	Temperature Scale and Display Temperature Range	● Auto: Display temperature range will be automatically adjusted. ● Manual: Drag the temperature value to adjust temperature range. In manual adjustment, the palette turns to focus palette mode, in which objects falling in the range remain the selected palette while the rest is displayed in White Hot palette.
6	Measurement Tools	Set rules for temperature measurement.
7	Palettes	Select color styles for thermal imaging.
8	Image Mode	Users can set the thermal/optical view of the device. Thermal, PIP, and Fusion are selectable.
9	Image	Adjust brightness, sharpness, contrast and color distribution.
10	Parameter	Set parameters such as temperature measurement range and temperature alarm.
11	Album	View snapshots and videos.
12	Capture/Record	Tap to capture the image in snapshot mode or to start/stop recording in video mode.
13	Snapshot/Video Mode	Switch between snapshot and video mode.

2.2 Thermal Image Calibration

For temperature measurement accuracy and image effect, it is recommended to conduct image calibration. It is common to have brief image freeze during image calibration.



Image calibration is supported by some models. See your device for available operations.

Auto Calibration

In this mode, the imager automatically calibrates images according to its internal rules.

Tap  to enable **Auto Calibration**.

Manual Calibration

Tap  to calibrate the image for one time.

Turn off Calibration

Tap  to turn off the calibration function.



It is recommended to enable **Auto Calibration**. Otherwise, users need to conduct **Manual Calibration** from time to time for the accuracy of thermal imaging and temperature measurement.

3 Start with SuperScene Mode

To conduct fast anomaly detection, several preset templates are included in SuperScene Mode for various detection scenarios. Users can choose an appropriate scene or customize a scene as per targets, and set temperature alarm as needed. When measuring temperature, users can add temperature measurement tools as needed.

3.1 Select SuperScene Mode

Tap  to select an appropriate scene, and tap **Confirm** to perform detection. The icon varies according to different scenes.

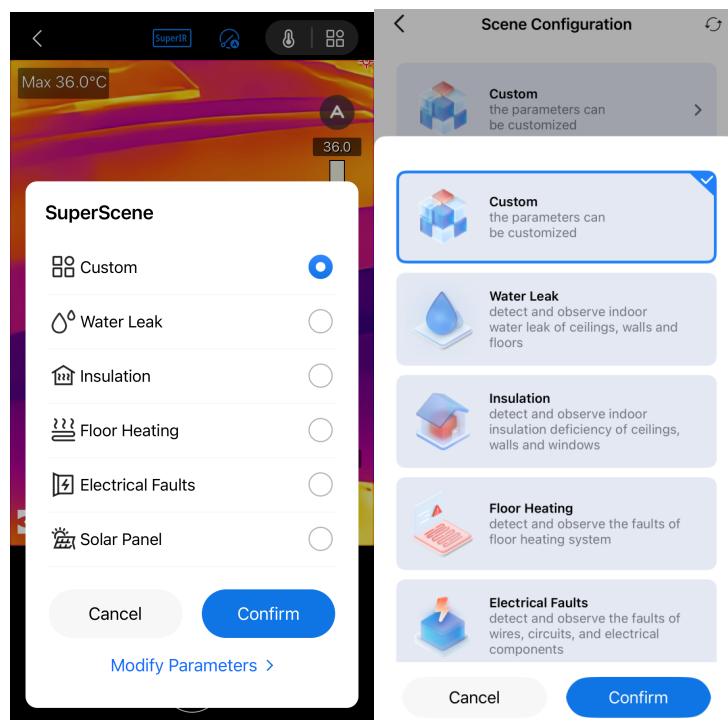


Figure 3-1 SuperScene Mode

Water Leak

To inspect the water leak of building ceilings, walls and floors indoors.

Smart Live Detection technology can assist in fast recognition for anomalies during water leak detection. When Smart Live Detection is enabled and water leak anomalies are detected, Suspect will be displayed on the live view.



- False alarms and missed detection may occur when temperature difference of the areas with water leak anomalies is too subtle to be recognized, or when the thermal imaging features are not obvious.
 - It is recommended to give a second diagnosis based on Smart Live Detection function. The algorithm of Smart Live Detection function is being updated.
 - When SuperIR and Smart Live Detection are enabled simultaneously, the frame rate will be decreased.
-

Insulation

To detect indoor insulation deficiency of building walls, ceilings, common users can apply this scene.

Smart Live Detection technology can assist in fast recognition for anomalies during insulation detection. When Smart Live Detection is enabled and insulation anomalies are detected, Suspect will be displayed on the live view. If air leak points are detected, Suspect Air Leak will be displayed on the live view.



- False alarms and missed detection may occur when temperature difference of the areas with insulation anomalies is too subtle to be recognized, or when the thermal imaging features are not obvious.
 - It is recommended to give a second diagnosis based on Smart Live Detection function. The algorithm of Smart Live Detection function is being updated.
 - When SuperIR and Smart Live Detection are enabled simultaneously, the frame rate will be decreased.
-

Floor Heating

To detect and observe the faults of floor heating system.

Electrical Faults

To detect and observe the faults of wires, circuits, electrical components, and terminators, etc.

Solar Panel

To detect and observe the faults of solar panels.

Custom

Users can customize a mode to save desired temperature measurement parameters for future use. See 3.2 Set Temperature Measurement Parameters.



Temperature Range and **Temperature Alarm** settings are not supported in Water Leak and Insulation mode.

3.2 Set Temperature Measurement Parameters

To obtain a more precise detection results, users can fine-tune the related parameters.

1. Tap > **Modify Parameters** to edit the default parameters.



- Tap to restore to the default configuration of the current scene.
- Parameters vary from the different scenes.

Functions	Description
Emissivity	Set the emissivity according to your target.
Palettes	Thermal images are created by temperature difference. Users can switch different palettes as preferred.
Temperature Range	Select the temperature measurement range. The device can detect the temperature and switch temperature measurement range automatically in Auto Switch mode.
Alarm	When the temperature of targets triggers the set alarm rule, users can be notified in the set ways. See 3.4 Set Temperature Alarm.
Color Distribution	Linear and Histogram modes are selectable for different application scenes, so as to display more details. Linear: Detect small high temperature targets in low temperature background to enhance and display more details of high temperature targets, such as cable connectors. Histogram: Detect small low temperature targets in high temperature areas to enhance temperature difference and remain details of low temperature objects, such as cracks.



Users can also set the following parameters in the live-view interface:

- Tap to set emissivity.
- Tap > to set the temperature measurement range.

2. Tap to set the distance between the target and the imager.

3. In the home screen, go to **Settings > General > Unit Settings**. Users can set temperature unit and distance unit as needed.

3.3 Temperature Measurement Tool

Measure temperature with tools. Available tools are **Point**, **Line** and **Rectangle**.

3.3.1 Add Point Measurement Tool

1. Tap  to add point tools.

Table 3-1 Point Measurement Tools

Icon	Function	Description
	Center Point	Display the real-time temperature of the center of the live image.
	Hot Point	Display the real-time highest temperature in the Live View .
	Cold Point	Display the real-time lowest temperature in the Live View .
	Custom Point	Display the temperature of a user-defined point.



Tap  to clear all measurement tools.

2. **Optional:** Edit the point.

Move Point:

- Tap  again to turn off the custom mode.
- Drag or tap the point to desired locations.

Remove Point:

- Tap  again to turn off the custom mode.
- Tap the point.
- Tap the pop-up  button.



NO MORE THAN 3 custom points are supported to set on the Live View.

3.3.2 Add Line Measurement Tool



Line Measurement Tool is supported by some models. See your device for available operations.

1. Tap  >  to add a line on the **Live View**.

2. **Optional:** Edit the line.

Move Line:

- Tap  again to turn off the custom mode.
- Drag the line to move it.
- Tap the screen again to confirm the edit.

Resize Line:

- Tap  again to turn off the custom mode.
- Tap the line.
- Tap the two endpoints of the line respectively to determine its length and size.
- Tap any part outside of the line to end the moving process.

Remove Line:

- Tap the line.
- Tap  on the pop-up window to remove it.

3. **Optional:** Show/Hide Temperature Result.

- Tap the line.
- Tap  to show/hide the highest/lowest/average temperature.
- Tap **OK** to confirm the settings.

3.3.3 Add Rectangle Measurement Tool

1. Tap  >  to add a rectangle on the **Live View**.

2. **Optional:** Edit the rectangle.

Move Rectangle:

- Tap  to turn off the rectangle tool.
- Drag the rectangle.
- Tap any part outside of the rectangle to end the moving process.

Resize Rectangle:

- Tap  to turn off the rectangle tool.
- Tap the rectangle and drag its vertex.

- Tap any part outside of the rectangle to end the resizing process.

Remove Rectangle:

- Tap the rectangle, and it will pop up an edition window.
- Tap  to remove it.

3. **Optional:** Show/Hide Temperature Result.

- Tap the rectangle, and it will pop up an edition window.
- Tap  to show/hide the highest/lowest/average temperature.
- Tap **OK** to confirm the settings.



NO MORE THAN 3 rectangles are supported to set on the Live View.

3.4 Set Temperature Alarm

1. Tap .
2. Tap  to input the maximum value of **High Temp** and the minimum value of **Low Temp** in the pop-up window.
3. Slide  to switch on the **High Temp** alarm or the **Low Temp** Alarm respectively.



It does NOT support to enable **High Temp** alarm and **Low Temp** alarm at the same time.

4. Tap **Confirm** to confirm the settings.
-



Users can tap  to select the scene mode to perform quick detection with preset parameter templates, or customize the temperature alarm parameters for different scenes. Temperature alarm settings are not supported in **Water Leak** and **Insulation** scene mode.

5. The exceptional temperature will cause the flashing **High Temp** or **Low Temp** at the bottom of the **Live View** and the vibration or sound.

4 HIKMate

HIKMate is an AI analysis assistant. Users can take or upload thermal images and send them to the HIKMate. Based on the image information, HIKMate can quickly diagnose and analyze the suspected points in the thermal image. Users can also generate a report with one click based on the analysis.

4.1 Register an Account and Apply Quota

4.1.1 Register Account

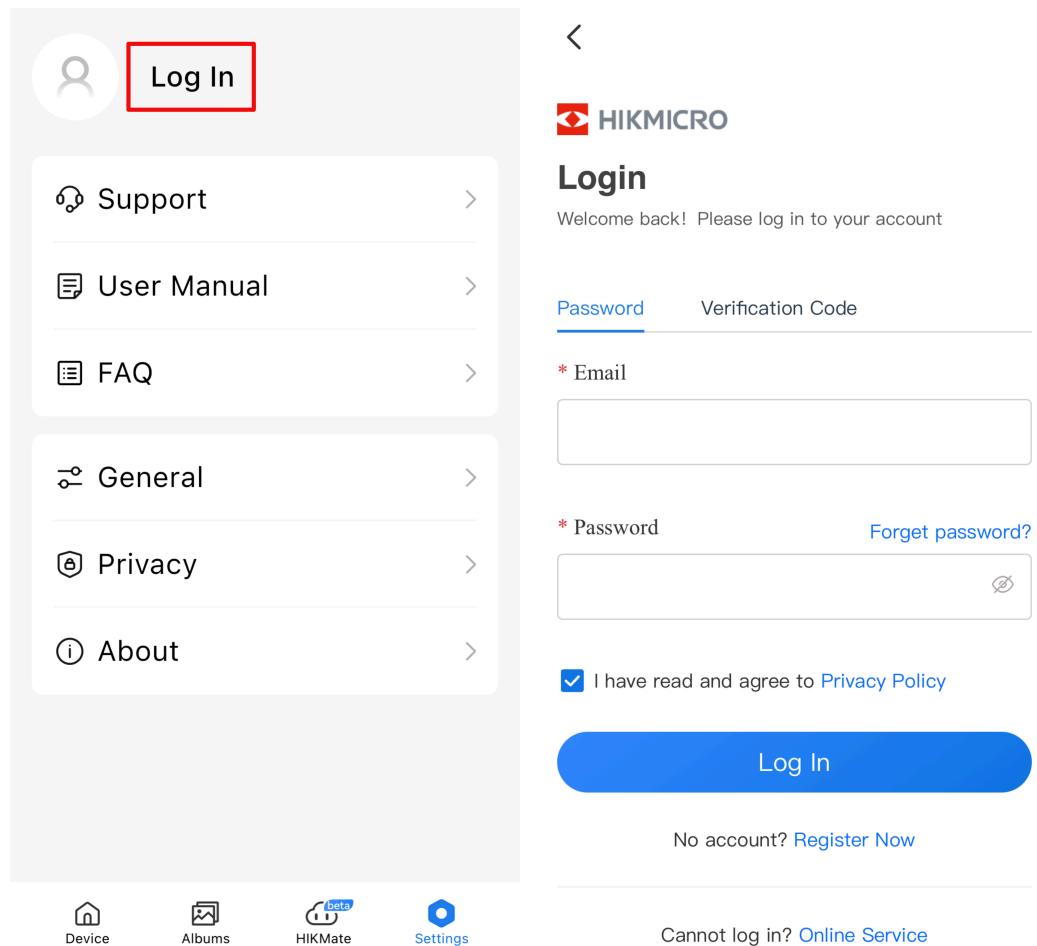


Figure 4-1 Register and Log in Account



Users must agree to the privacy policy to complete registration successfully.

1. Open the app, go to **Settings**, and tap **Log In**.
2. On the login page, tap **Register Now** to register an account by using user's email address.
3. After registration, **Log In** with user's account.

4.1.2 Apply Quota

1. When the quota icon is displayed in red, it indicates that you can apply for quota.

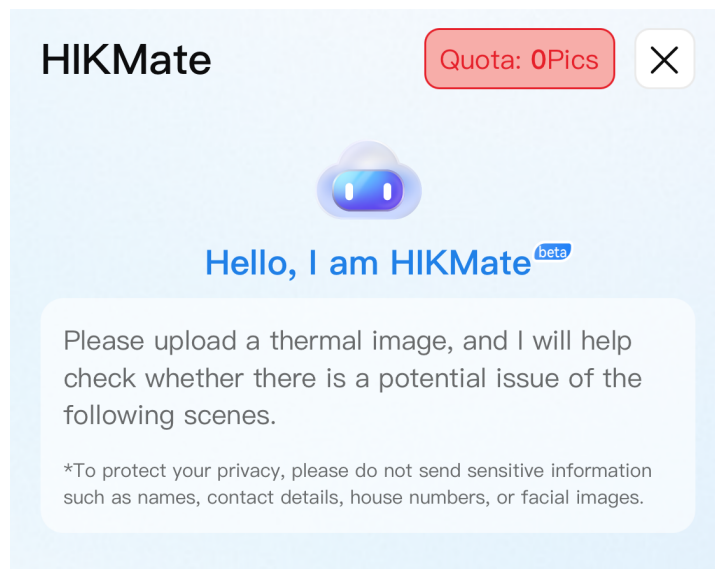


Figure 4-2 HIKMate Interface

2. Tap the quota icon to enter the quota application page.

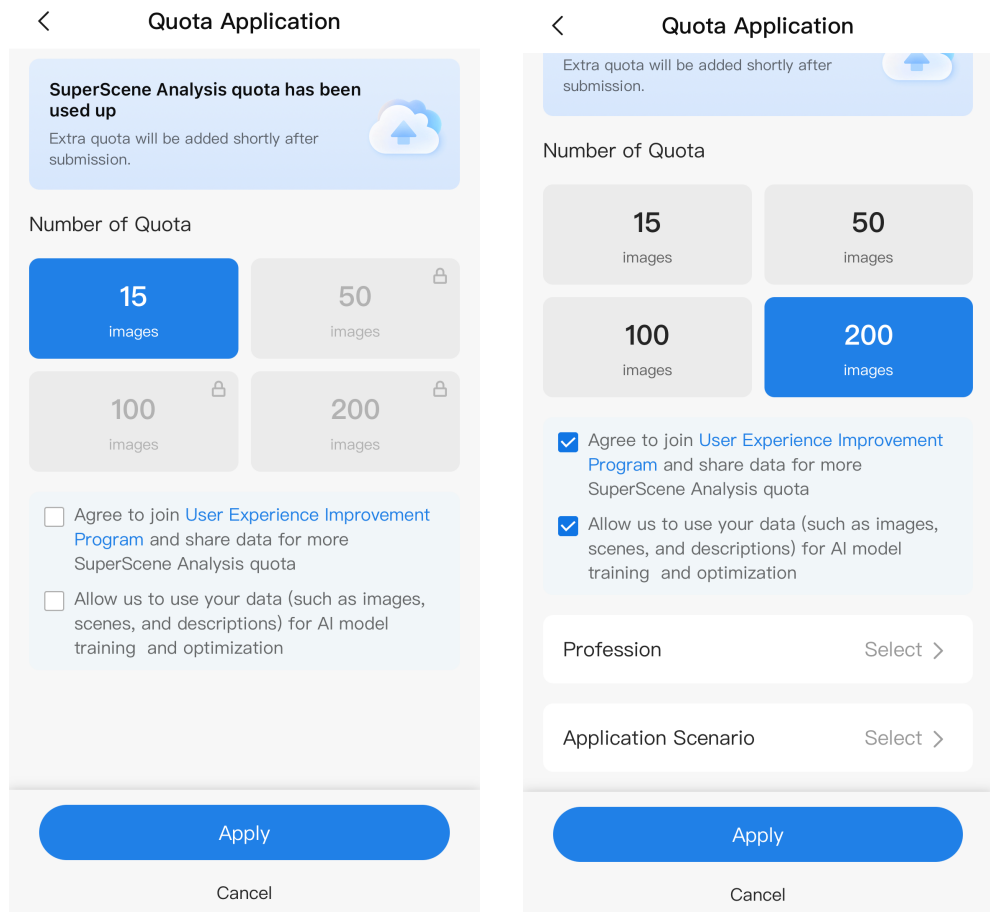


Figure 4-3 Quota Application

- Multiple quota options are available for you to choose.
- If you need a quota of 50 or more, please first agree to join the User Experience Improvement Program, and fill in your profession and application scenario information.



If users do not wish to continue using this function, they can also opt out of the User Experience Improvement Program.

4.2 Upload Images and Start Analysis

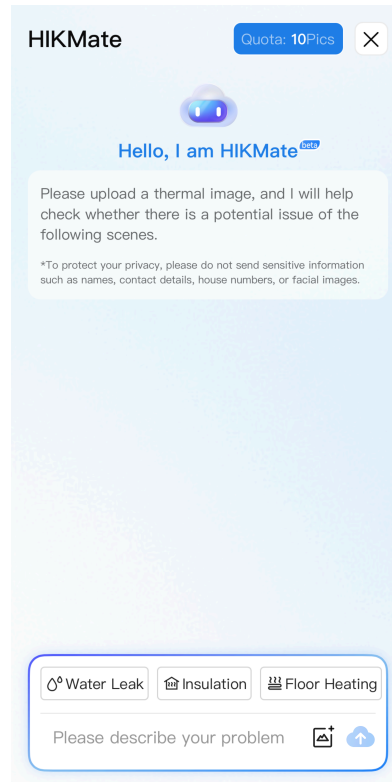


Figure 4-4 HIKMate Interface

1. After logging in, tap  in the home screen to enter the HIKMate interface.
2. Tap  to upload images. Users can select images from the app's local album or capture thermal images with the device.



Up to 4 images can be uploaded.

3. Select a scene tag based on the scene, such as Water Leak or Floor Heating. See 3.1 Select SuperScene Mode for scene introduction.
4. Enter a brief description of your problems.
 - For Water Leak/ Insulation/ Floor Heating: Description is optional.
 - For Others: Description is required.
5. Tap , HIKMate begins the analysis.

4.3 Analysis Results and Feedback

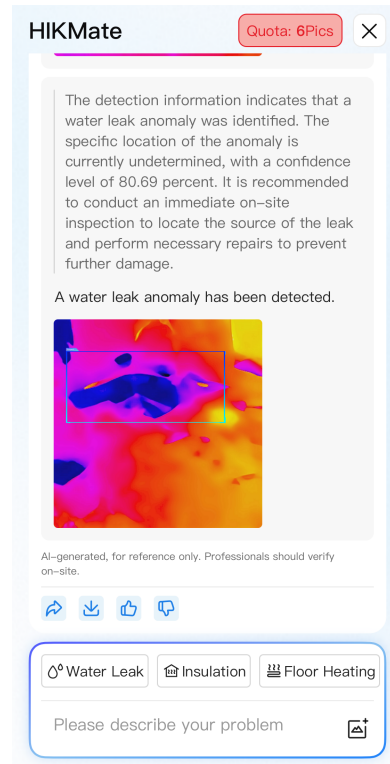


Figure 4-5 Analysis Results

1. View the analysis result. After the analysis is complete, HIKMate generates a new analyzed image based on the uploaded thermal image.
2. Tap the analyzed image to view the suspected areas.
3. (Optional) View the comparison image: Tap  to display the comparison of the uploaded image with the analyzed image.



- Tap  to compare the thermal image with the analyzed image.
- Tap  to compare the visual image with the analyzed image.

4.3.1 Generate a report

1. Tap the analyzed image and then tap  to edit the report information, enter a report name.
2. Tap **Next** >  to generate a PDF report.
3. Tap  to share the report with the third party.

4.3.2 Manage Analyzed Images

Save Analyzed Images

1. Enter to the **Albums**, and tap **HIKMate** >  to select the images..
2. Tap  to save the analyzed images to your phone.

Share Analyzed Images

1. Enter to the **Albums**, and tap **HIKMate** >  to select the images.
2. Tap  to share the analyzed images with the third party.

Delete Analyzed Images

1. Enter to the Albums, and tap **HIKMate** >  to select the images.
2. Tap  to delete them.

5 Display Settings

5.1 SuperIR

Switch on **SuperIR** to get an enhanced thermal image. Captured thermal image with **SuperIR** is clearer than the original one.

For some series, users can select **SuperIR X4** or **SuperIR X16**.



- Compared to **SuperIR X4**, **SuperIR X16** provides higher image resolution but consumes more phone resource and battery power, which may reduce the live view frame rate and cause the phone to overheat.
 - If the phone performance is insufficient, it may not support **SuperIR X16**. Please use the feature according to actual situation.
 - **SuperIR** function varies within the series. See your device for available operations.
-

5.2 Select Image Mode

Tap  to select the display mode of the live view.

- : In **Thermal** mode, the device displays the thermal image.
 - : In **PIP** mode, the device displays the thermal view overlaid with the visual view in the upper-left corner. Users can drag the visual image frame to move it.
 - : In **Fusion** mode, the device displays the thermal image of the live view outlined from visual image.
-



- The visual image is captured by your phone's camera. To use either **PIP** or **Fusion** mode, it is required to grant the APP permission to access your phone's camera.
 - When **Fusion** is enabled, **SuperIR** will be unavailable, and **Sharpness** value will reset to zero.
-

Camera Alignment

To display the precise fusion view of the thermal and visual image, please follow the instructions to finish **Camera Alignment** for the first time.

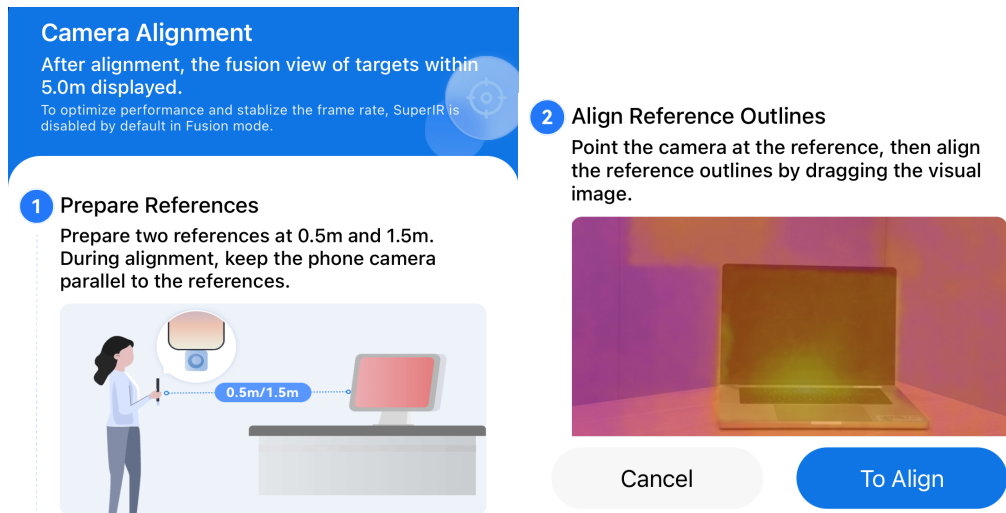


Figure 5-1 Camera Alignment

1. Prepare two references at 0.5 m and 1.5 m. During alignment, keep the phone camera parallel to the references.
2. Point the phone camera at the reference, then align the reference outlines by dragging the visual image.
3. After completing initial alignment, tap  to adjust the fusion distance based on target range. For closer targets, slide the bar to the left; for distant targets, slide it to the right until the visual and thermal image outlines are perfectly aligned.
4. If the outlines are misaligned, tap  to perform **Camera Alignment** again.



After **Camera Alignment**, partial visual light loss around the edges may occur due to differences in position and field of view (FOV) between the phone camera and the thermal imager camera. This is a normal phenomenon.

5.3 Adjust Display Temperature Range

After selecting appropriate palettes, it is advisable to adjust display temperature range to highlight the thermal image of the target of interest.

Auto Adjustment

Tap , the imager will shift to **Auto Adjustment**, and the display temperature range will be automatically adjusted.

Manual Adjustment

Tap , the imager will shift to **Manual Adjustment**. It is a focus palette that users can swipe the temperature value up and down to adjust the range, focusing on the target in the set range.

5.4 Adjust Display On-Screen Info

Brand Logo

In the home screen, go to **Device Info > Preview Brand Logo**. Users can turn off the brand logo displayed in the live-view interface.

Temperature Overlay

In the home screen, go to **Device Info > Temperature Overlay**. Users can choose whether to display the temperature results in the upper-left corner of the live-view interface or follow the temperature measurement rules.

5.5 Adjust Image Display

Image Rotation

Tap  >  to rotate live image by 90 degrees.

Zoom

Tap  >  to zoom in the live image. When not selected, the live image will be zoomed out.



The function varies within the series. See your device for available operations.

Temperature Scale

Tap  >  to display or hide the temperature scale.



The function varies within the series. See your device for available operations.

5.6 Select Palettes

Palettes highlights the imaging details as the image displays different colors according to temperature range.

Tap  to select appropriate palettes.

Custom Palettes and predefined palettes are available.

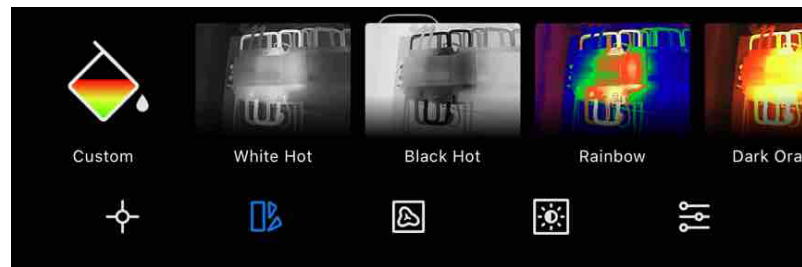


Figure 5-2 Different Palettes



- NO MORE THAN 4 colors are supported to set in the **Custom Palettes**.
 - Tap **Custom Palettes** >  to add appropriate colors. Swipe the palettes points to adjust the color distribution of the palettes bar.
 - **Custom Palettes** function is supported by some models. See your device for available operations.
-

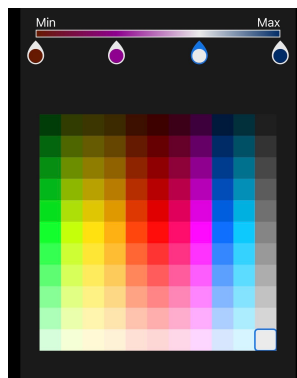
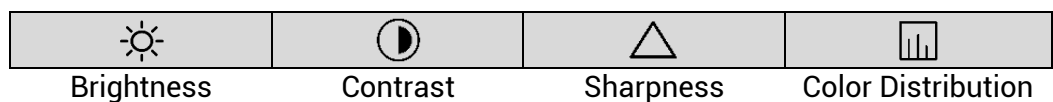


Figure 5-3 Custom Palettes

5.7 Set Image Parameters

For better image analysis, it is recommended to tap  to set appropriate parameters.



Color Distribution supports Linear and Histogram.

- **Linear:** The mode displays relatively huge temperature gap.
 - **Histogram:** The mode displays relatively small temperature gap.
-

6 Capture Snapshots and Record Videos

6.1 Capture Snapshots

If users need to save snapshots to your phone, please tap **Settings** > **General** > **Save Pictures and Videos to Phone** in the home screen.

Tap  to capture thermal images and save them to the App album and your phone.

6.2 Record Videos

1. Tap  to shift into **Video** mode.
2. Tap  to start the video recording, and tap again to stop.



Snapshot and **Video** modes can be freely switched around.

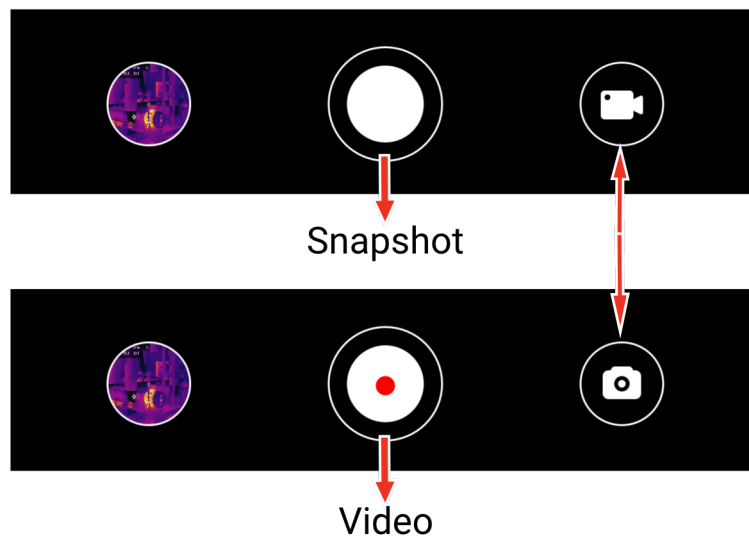


Figure 6-1 Switch Between Snapshot and Video Modes

6.3 View Snapshots/Videos

Users can view the pictures and videos saved in the album as follows:

- Tap the snapshot or video on the lower left corner on the **Live View**.
- Tap the snapshot or video on the lower left corner on the **Live View**, then tap , and users can view all the snapshots and videos.

- Tap  in the home screen, and users can view all the snapshots and videos.

6.4 Edit Snapshots

Users can adjust the parameters of the snapshot to get more accurate temperature results.

1. Enter to the **Albums** and select the snapshot.
2. Tap  to enable editing functions.

Table 6-1 Icons for Snapshots Editing

Icon	Function	Description
	Measurement	Adjust the temperature values. Tap again to hide the results.
	Image Mode	Select image modes, including thermal, visual, and fusion.
	Level and Span	Select auto, manual and 1-Tap modes to highlight certain temperature range.
	Palettes	Select palettes.
	Color Alarms	Set the highest and lowest temperature or certain temperature range of the snapshot to highlight the required areas.
	Parameter	Adjust emissivity, distance, and environment temperature. Users can also add text note on the snapshot.



Video does NOT support editing functions.

6.5 Manage Snapshots and Videos

Share Snapshots and Videos

1. Enter to the **Albums**, and tap  to select the snapshots and videos.
2. Tap  to share the snapshots and videos with the third party.

Save Snapshots and Videos

Tap  to save snapshots and videos to your phone.

Delete Snapshots and Videos

- Select a specific picture or video and tap  to delete it.
- Tap  to select pictures or videos, and then tap  to delete them.
- Check a date to delete all the files generated on this date.

6.6 Generate and Share PDF Report

1. Enter to the **Albums** and select the snapshot.
2. Tap  to edit the report information.



Report Name is a MUST.

3. Tap **Next** > ✓ to generate a PDF report.
4. Tap  to share the report with the third party.



Video does NOT support PDF report generation and sharing.

7 Update and Maintenance

7.1 Update the Imager

For better operation experience, it is recommended to update to the latest version in time. The imager update is as follows:

- In the home screen, tap **Device Upgrade > Check for Updates**.
- In the home screen, tap **Device Info > Device Upgrade > Check for Updates**.

7.2 Reset the Imager



Be careful to use this function, or the data will be lost.

In the home screen, tap **Device Info > Reset > OK** to restore the thermal imager.

7.3 Error Diagnosis

If users encounter some device exception during the operation, error diagnosis can help users quickly troubleshoot. Feedback paths are as follows:

- In the home screen, tap **Device Info > Device Diagnosis**.
- In the home screen, tap **Settings > Support** to get online service support, hotline support or to submit logs.

Legal Information

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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.

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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 2011/65/EU (RoHS).



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.



Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with an Apple product may affect wireless performance. Apple, iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries and regions. iOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.

Industry Canada ICES-003 Compliance

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

Conformité Industrie Canada ICES-003

Cet appareil répond aux exigences des normes CAN ICES-003 (B)/NMB-003 (B).

INFORMATIONEN FÜR PRIVATE HAUSHALTE

1. Getrennte Erfassung von Altgeräten:

Elektro- und Elektronikgeräte, die zu Abfall geworden sind, werden als Altgeräte bezeichnet. Besitzer von Altgeräten haben diese einer vom unsortierten Siedlungsabfall getrennten Erfassung zuzuführen. Altgeräte gehören insbesondere nicht in den Hausmüll, sondern in spezielle Sammel- und Rückgabesysteme.

2. Batterien und Akkus sowie Lampen:

Besitzer von Altgeräten haben Altbatterien und Altakkumulatoren, die nicht vom Altgerät umschlossen sind, die zerstörungsfrei aus dem Altgerät entnommen werden können, im Regelfall vor der Abgabe an einer Erfassungsstelle vom Altgerät zu trennen. Dies gilt nicht, soweit Altgeräte einer Vorbereitung zur Wiederverwendung unter Beteiligung eines öffentlich-rechtlichen Entsorgungsträgers zugeführt werden.

3. Möglichkeiten der Rückgabe von Altgeräten:

Besitzer von Altgeräten aus privaten Haushalten können diese bei den Sammelstellen der öffentlich-rechtlichen Entsorgungsträger oder bei den von Herstellern oder Vertriebern im Sinne des ElektroG eingerichteten Rücknahmestellen unentgeltlich abgeben. Rücknahmepflichtig sind Geschäfte mit einer Verkaufsfläche von mindestens 400 m² für Elektro- und Elektronikgeräte sowie diejenigen Lebensmittelgeschäfte mit einer Gesamtverkaufsfläche von mindestens 800 m², die mehrmals pro Jahr oder dauerhaft Elektro- und Elektronikgeräte anbieten und auf dem Markt bereitstellen. Dies gilt auch bei Vertrieb unter Verwendung von Fernkommunikationsmitteln, wenn die Lager- und Versandflächen für Elektro- und Elektronikgeräte mindestens 400 m² betragen oder die gesamten Lager- und Versandflächen mindestens 800 m² betragen. Verreiber haben die Rücknahme grundsätzlich durch geeignete Rückgabemöglichkeiten in zumutbarer Entfernung zum jeweiligen Endnutzer zu gewährleisten. Die Möglichkeit der unentgeltlichen Rückgabe eines Altgerätes besteht bei rücknahmepflichtigen Verreibern unter anderem dann, wenn ein neues gleichartiges Gerät, das im Wesentlichen die gleichen Funktionen erfüllt, an einen Endnutzer abgegeben wird.

4. Datenschutz-Hinweis:

Altgeräte enthalten häufig sensible personenbezogene Daten. Dies gilt insbesondere für Geräte der Informations- und Telekommunikationstechnik wie Computer und Smartphones. Bitte beachten Sie in Ihrem eigenen Interesse, dass für die Löschung der Daten auf den zu entsorgenden Altgeräten jeder Endnutzer selbst verantwortlich ist.

5. Bedeutung des Symbols „durchgestrichene Mülltonne“:

Das auf Elektro- und Elektronikgeräten regelmäßig abgebildete Symbol einer durchgestrichenen Mülltonne weist darauf hin, dass das jeweilige Gerät am Ende seiner Lebensdauer getrennt vom unsortierten Siedlungsabfall zu erfassen ist.

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B 급 기기: 이 기기는 가정용(B 급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

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 for any necessary export license requirements if you intend to transfer, export, re- export the thermal series products between different countries.

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.

Maintenance

- DO NOT maintain the camera when it is powered on, or it may cause electric shock! 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 the operating 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 device is suitable for indoor use only.
- The level of protection is IP 40.

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 responsibilities.

- 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.

Manufacture Address

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