



HIKMICRO M Series
Handheld Thermal Camera (V5.5.85)
Release Notes

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(www.hikmicrotech.com/).

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1 Introduction

The handheld thermal camera is an ideal solution, which provides accurate touch-free temperature measurement and heat distribution image display for electrical predictive maintenance, building inspection, HVAC inspection, manufacturing monitor, etc. HIKMICRO's handheld thermal cameras have been used widely in detecting temperature anomalies before detecting radiator efficiency for HVAC inspection, searching for heat loss in buildings, finding hot spots and invisible defects on mechanical or electrical systems that could indicate a potential problem. They are also used for surveying areas that are hard to reach with conventional measurement tools.

This document introduces new features and optimizations in V5.5.85 of M Series.


1.1 Version information

Item	Description
Firmware Version	V5.5.85 build 241012
Models	M20, M20W, M11, M11W, M60
Mobile Client	HIKMICRO Viewer, the latest version
PC Client	HIKMICRO Analyzer

1.2 How to upgrade to new version

1.2.1 Upgrade device by upgrade file

Before upgrading your device, make sure:

- Device battery is fully charged.
 - Auto Power-off function is turned off to avoid accidental suspension during upgrading.
 - A memory card has been installed to device.
1. Download the upgrade file from our website:
<https://www.hikmicrotech.com/en/industrial-products/ai56-acoustic-camera/>, and save it to your PC.
 2. Connect the device to your PC with cable.
 3. Select USB Drive on the pop-up USB Mode window of the device.  will be displayed on the device status bar, and a notice for detected disk will pop up in your PC.

4. Click the disk on your PC to open it.
5. Select and copy the upgrade file, and paste it to the root directory of the device.



Make sure that the upgrade file pasted to the root directory is extracted.

6. Disconnect the device from your PC.
7. Reboot the device and then it will upgrade automatically. The upgrading process will be displayed in the main interface.



After upgrading, the device reboots automatically. You can view the current version in **Device Settings > Device Information**.

1.2.2 Upgrade with HIKMICRO Viewer APP

Connect your device to HIKMICRO Viewer APP and tap on **Device Upgrade** to check device firmware version and proceed online upgrading.


Download and install HIKMICRO Viewer to your phone. Search the APP name in your APP store, or scan the following QR code.



2 New Features

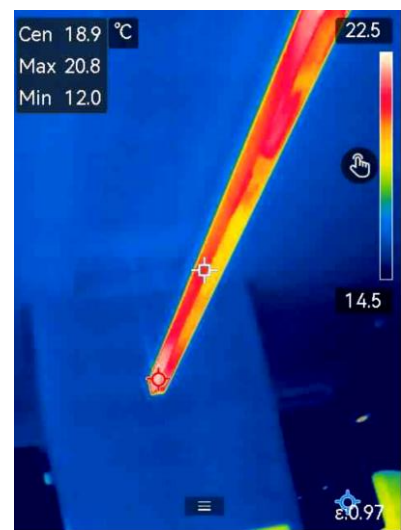
2.1 Added Shortcut Keys in Swipe-Down Menu

2.1.1 Auto Rotation

Drop down the menu and tap  to turn on/off auto rotation, and the status bar, main menu and temperature scale and values shift from the horizontal direction to the vertical direction.





Horizontal Direction



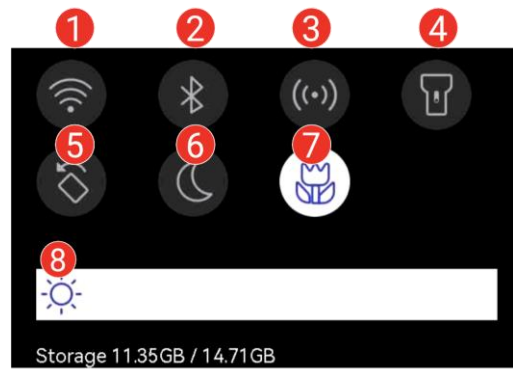
Vertical Direction



In live view, press  or tap  to call main menu, and go to **Settings > Device Settings > Auto-Rotation**.

2.1.2 Macro Mode

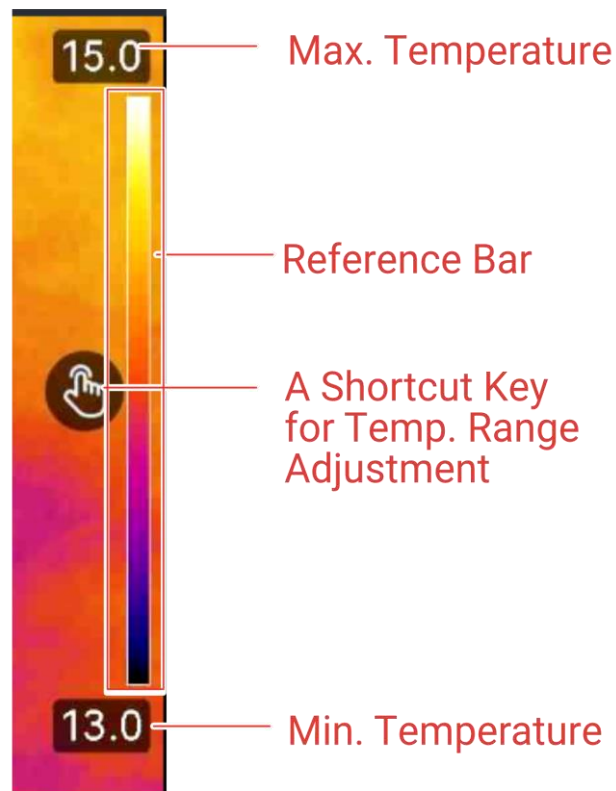
Drop down the menu and tap  to turn on/off auto rotation.



2.2 Added Shortcut Keys for Temperature Scale

It is available to show or hide the palettes bar in live view. Go to **Settings > Display Settings > Reference Bar**.

In Manual Level and Span mode, press  on the left side of temperature scale to quickly adjust the temperature range.







2.3 Export Files via Bluetooth

Pair the device Bluetooth with the phone Bluetooth, and export images in the device Albums to the local album of your phone. Computer Bluetooth or Bluetooth of the mobile phone with iOS system is not supported to export images.

Before You Start




Make sure the connection between the device Bluetooth and the phone Bluetooth is successful.

Steps

1. Send one image in the device Albums to the phone.
 - 1) Enter to the device Albums, and select an image.
 - 2) Press  or tap any part of the screen to call the editing menu.
 - 3) Tap  >  to select a Bluetooth device.
 - 4) Choose the paired phone Bluetooth in the available Bluetooth list.
 - 5) Press  to confirm.



Videos are NOT supported to be exported via Bluetooth.

2. Optional: Send several images in the device **Albums** to the phone.
 - 1) Enter to the device **Albums**, and tap  to select no more than 16 images.
 - 2) Tap  to select a Bluetooth device.
 - 3) Choose the paired phone Bluetooth in the available Bluetooth list.
 - 4) Press  to confirm.



Tap  to refresh the available devices.

2.4 Cast Device Screen to PC

The device supports casting screen to PC by software client HIKMICRO Analyzer. You can connect the device to your PC via a supplied USB cable or by network, and cast the real-time live view of the device to your PC, even capture snapshots or record videos by the client.

Before You Start

Download and install HIKMICRO Analyzer on your PC. Please visit our website www.hikmicrotech.com or contact technical support or customer service teams for installation packages.


2.4.1 Cast Device Screen to PC via USB Cable

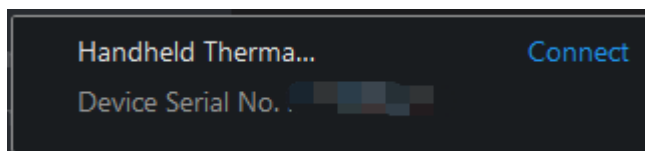
1. Launch HIKMICRO Analyzer, and switch to LIVE interface.



Live view function is ONLY supported in HIKMICRO Analyzer v1.7.0 and the newer versions. Please download or update to v1.7.0 and the newer versions.

2. Use the supplied USB cable to connect your device with a PC.

3. In pop-up window of your device, select **USB Cast Screen**, and  will be displayed in the device status bar.
4. Click **Refresh** in HIKMICRO Analyzer LIVE interface, and the reminder **New Device Detected** will appear.
5. Click **Connect** in the drop-down box in HIKMICRO Analyzer LIVE interface.



The live image of your device is displayed in the PC.

2.4.2 Cast Device Screen to PC via Network

You can connect a thermal camera by wired or wireless network to start live view, record videos, etc.



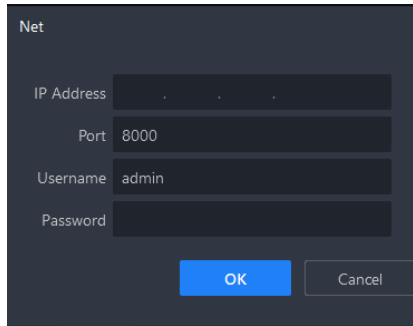
Only one thermal camera can be connected at a time in this way.

Prepare for Streaming

- Connect your camera and PC to the same local network in wired or wireless way. Use a software with device searching function (for example, SADP, download available in our website <https://www.hikmicrotech.com/en/support/download-center/tool/>.) to get the IP address and port of your camera.
- Get the user name and password of your camera. For camera connecting to a network in the first time, admin password should be set to activate it. You can use SADP to complete activation, see the user manual of the software for instructions.

Start Streaming on Client

1. In the top-left corner, click  > **Net** > + .
2. Input **IP Address**, **Port**, **Username**, and **Password**. Click **OK**.



- Check Auto-Login to save the parameters in the client. When the client restarts, it will search for the camera and auto log in to it if it is online.
- After logging in, device model displays in the device connection area. The green dot in front of device model means logging in normally. For the meanings of dot in other colors, refer to the screen information.
- If you use a different computer account to run the client, the client will not auto log into the camera remembered by other computer accounts.

3. Click **Connect** to start streaming. Click **Disconnect** to stop live view.

2.5 Protocol Related Updates

2.5.1 UVC Protocol Updates

Added new UVC protocols to support auto-calibration control and temperature range adjustment.

2.5.2 RTSP Protocol Updates



RTSP was supported to obtain real-time temperature matrix for the use of the third party applications.

3 Optimizations

HIKMICRO M series handheld thermal cameras optimize to improve your experience.

3.1 Added QR Code Note When Editing Images

This version added the QR code note when editing images.

1. Tap  and aim at the target to automatically add a new Asset ID, or change the existed Asset ID.
2. **Optional:** Press OK button or tap any part in the QR code frame to input the Asset ID.
3. Press  to save the settings.



3.2 Others

- Drop-Down Menu: Swipe down the 1/3 area on the top of the screen to call the menu.
- File Details: When editing images, you can browse the last modified time of the image.
- Level & Span:
 - There are **Level Only** and **Level or Span** modes selectable. Level and Span mode was renamed Level or Span.
 - In **Manual** mode, the interface for setting parameters is optimized.
- SuperIR: The icon of SuperIR will be displayed in live view interface of cameras with live SuperIR function (ONLY M20/M20W/M11/M11W are supported).
- Macro Mode: It is available to change image modes in macro mode.

4 FAQ on Upgrade

4.1 Why my PC failed to detect the camera as a USB drive?

Check the following items:

- Use a good quality type A to type C USB cable to connect your PC to your camera. The supplied cable is recommended. Normally, a cable should be able to charge a camera and transfer data.
- Keep USB Cast Screen function off.
- Keep the microSD card inserted and do not remove it during connection.
- Keep the camera powered on.

4.2 What should I do when my PC notifies power surge on the USB port?



Check the following items:

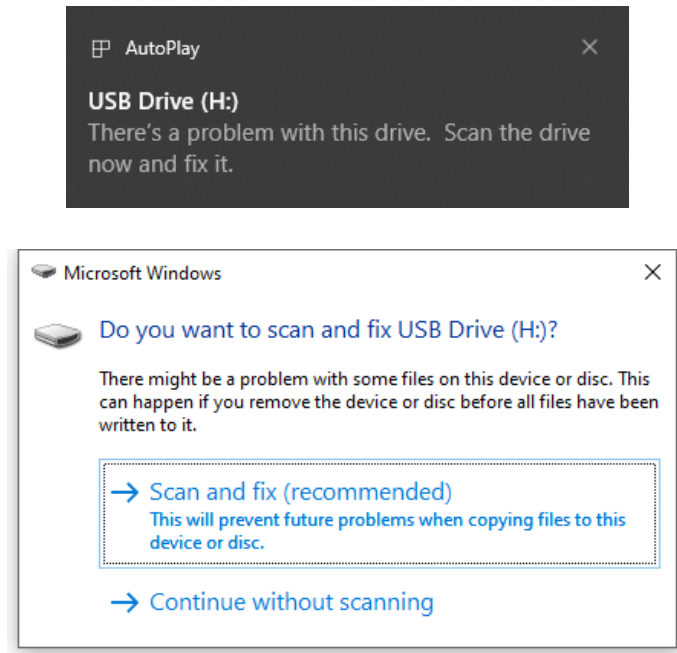
- When you are looking for an adapter of USB type C to USB type A, please choose an unpowered hub. A powered hub such as Surface Dock Station is not compatible.
- If you are using a built-in USB PowerShare port in your PC, please try another port.

4.3 What should I do when my PC notifies USB device not recognized?



In most cases, it does not affect use. You can just ignore the prompt and find the detected USB drive in **This PC**.

4.4 What should I do if my PC notifies the USB drive has a problem to be fixed?



Some Windows computers will scan a USB drive when it is connected, and show the error. Click scan and fix, Windows will confirm the drive is fine and connect to it. You can also skip scanning and find the detected USB drive in **This PC**, which does not affect use in most cases.



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