



**HIKMICRO M Series**  
**Handheld Thermal Camera (V5.5.54)**  
**Release Notes**

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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/](http://www.hikmicrotech.com/)).

Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

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# Chapter 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 V5.5.54 of M30.

## 1.1 Version information

Item	Description
Firmware Version	V5.5.54 build 231107
FPGA Version	M30: V1.04.03 BUILD20230901
Algorithm Version	V2.1.6 build 20230908
Models	M30
Mobile Client	HIKMICRO Viewer, the latest version
PC Client	HIKMICRO Analyzer: V1.5.0_231017

## 1.2 Upgrade device with USB

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.
- USB Cast Screen function is turned off.

Step 1 Download new firmware from our website

(<https://www.hikmicrotech.com/en/industrial-products/m-series-handheld-thermal-imager/>), and save it to your PC.

Step 2 Use supplied USB cable (USB type C to USB type A) to connect the device to PC.

Step 3 Open the detected disk on your PC.

Step 4 Unzip the firmware, and copy and paste the .dav file to the root directory of the disk.

Step 5 Disconnect the device from PC and reboot the device to start upgrading automatically. The upgrading lasts several minutes, please wait for the process to complete.

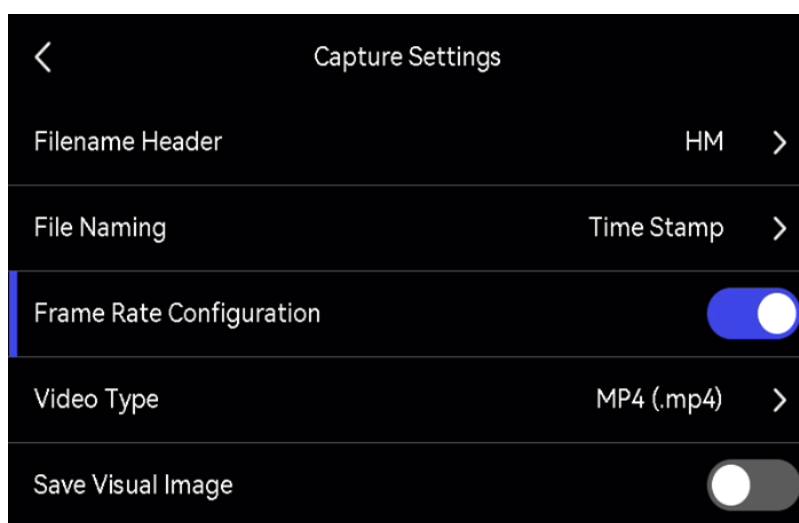
## Chapter 2 New Features

### 2.1 Customize high-frame rate videos

M30 of V5.5.54 allows you to customize the frame rate of videos (ranging from 1 fps to 30 fps) beforehand. The high-frame rate videos are smoother with more details for watching, especially when motion occurs, but consume more storage space.

You can follow the steps to set the video frame rate:

Step 1 Go to **Settings > Capture Settings** to enable **Frame Rate Configuration**.



Step 2 Go to **Settings > Capture Settings > Video Type** to select **Frame Rate**, and scroll to set a desired value.

Step 3 Press **OK** button.

#### Note

When **Frame Rate Configuration** is enabled, the camera's visual channel will be turned off, and the display mode will switch to **Thermal**. Therefore, you cannot change display mode or save the corresponding visual image when capturing a snapshot.

### 2.2 UVC live videos via HIKMICRO Analyzer

M30 of V5.5.54 provide live videos on HIKMICRO Analyzer.

Step 1 Go to **Settings > Connections > USB Cast Screen** to enable **USB Cast Screen**.

Step 2 Connect the camera with PC using the supplied USB type-C to USB type-A cable.

Step 3 Run HIKMICRO Analyzer and view the live videos.



**Frame Rate** cannot be configured on camera when you are viewing live videos via HIKMICRO Analyzer.



## Chapter 3 Optimizations

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

### 3.1 Manually input asset ID

Except for scanning the asset's QR code, M30 of V5.5.54 allow you to enter the asset ID by typing on-screen keyboard. You can view the asset ID of the snapshot on HIKMICRO Analyzer.

### 3.2 Quick settings in manual level & span

M30 of V5.5.54 allows you to change display modes and color palettes by tapping  or  in manual level & span setting interface.



In the manual level & span interface, the visual display mode cannot be switched on, and the size and position of PIP view are not configurable.

### 3.3 New file naming rules

M30 of V5.5.54 allows you to set the file naming rules. The files can be named after **Time Stamp** or **Numbering** (filename header + sequence number).

Go to **Settings > Capture Settings > File Naming** to set file naming.

### 3.4 Collect operation logs

M30 of V5.5.54 can collect device's operation logs for troubleshooting. You can turn on/off this function in **Settings > Device Settings > Save Logs**.



## Chapter 4 Important Notice

### 4.1 Previous versions of firmware

With this update to Version 5.5.54, it will not be possible to reinstall previous versions of firmware. If you need assistance with the update, please contact our service center (<https://www.hikmicrotech.com/en/contact-us/>) and we will help you through the process.

## Chapter 5 FAQ on Upgrade

### 5.1 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.

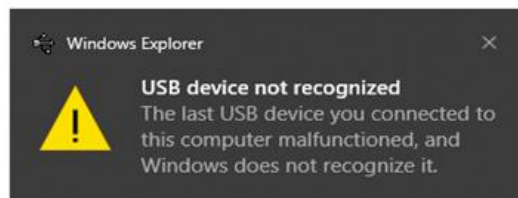
### 5.2 What should I do when my PC notifies power surge on the USB port?



Check the following items:

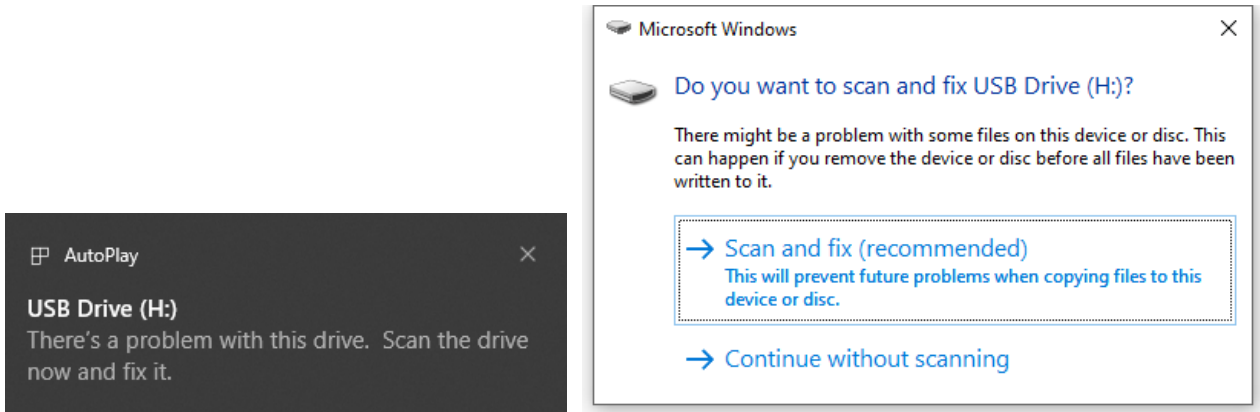
- When you are looking for an adapter of USB type C to USB type A, please choose an unpowered hub. A powered hub such as Surface Dock Station is not compatible.
- If you are using a built-in USB PowerShare port in your PC, please try another port.

### 5.3 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**. If the USB drive is not found, please try to Restore/Initialize the camera.

## 5.4 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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