

HIKMICRO FP Series Handheld Thermal Imager (**V5.5.113**)

Release Notes

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1 Introduction

The handheld thermal imager is a handheld temperature measurement product suitable for multiple scenarios. Equipped with a high-resolution detector, it delivers clear imaging and high thermal sensitivity, enabling effective detection of temperature variations and precise temperature measurement of targets. The handheld thermal imager supports multiple palettes, making it suitable for various on-site environments including fire detection, rescue, and buildings, etc.

This document introduces optimizations in V5.5.113 of FP Series.

1.1 Version information

Item	Description
Firmware Version	V5.5.113 build 260723
Models	FP21, FP31

1.2 More information

- Mobile Client: HIKMICRO Viewer (only for the camera models with Wi-Fi and Hotspot) *https://www.hikmicrotech.com/en/industrial-products/hikmicro-viewer-software/*
- PC Client for analysis and report: HIKMICRO Analyzer *https://www.hikmicrotech.com/en/industrial-products/hikmicro-analyzer-software/* or contact technical support for help.
- Welcome to visit our website and see more Compatibility Lists. *https://www.hikmicrotech.com/en/support/download-center/compatibility/*

1.3 Upgrade device

1.3.1 Upgrade device with USB

Before upgrading your camera, make sure:

- Fully charge your camera.
- Auto Power-off function is turned-off to avoid accidental suspension during upgrading.

1. Download new firmware from our website (https://www.hikmicrotech.com/en/industrial-products/fp-series-firefighting-thermal-camera/), and save it to your PC.
2. Use supplied USB cable (USB-C to USB-A) to connect the device to PC.
3. Open the detected disk on your PC.
4. Unzip the firmware, and copy and paste the .dav file to the root directory of the disk.
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.

1.3.2 Upgrade device via HIKMICRO Viewer

Before You Start

Scan the QR code below to download and install HIKMICRO Viewer on your phone.

Android

iOS

1. Launch HIKMICRO Viewer on your phone.
2. Upgrade the device. You can choose one of the following paths:
- In the home screen, tap **Device Upgrade** > **Check for Updates**.
- In the home screen, tap **Device Info** > **Device Upgrade** > **Check for Updates**.

2 New features

2.1 Palettes updates

2.1.1 Add palettes mode icons

Add palettes icons, allowing users to identify the current palettes mode through the icon displayed in the lower-left corner of the live view interface.

The palettes icon can be turned off. Go to **Settings** > **Display Settings** > **Palettes Icon**.

Icon	Mode
	Basic mode
	Smooth mode
	White hot mode
	Fire detection mode
	Rescue mode
	Hot area mode
	Cold area mode
	Building mode

2.1.2 Palettes threshold is available

Palettes threshold of basic mode and smooth mode can be set. The palettes threshold is a temperature value to control the range of palette display. When the surface temperature of the target reaches or exceeds

the set threshold, the thermal imager will enable palettes for the corresponding area, while areas below the threshold are typically displayed in gray.

Go to **Settings** > **Palette Threshold** to set your preferred threshold.

2.1.3 Palettes configurations can be memorized

After configuring commonly used palettes in **Manage Palettes**, the device can remember your configuration. Upon the next restart, the palettes settings will not be erased.

2.2 Settings lock is added

After configuring preferred settings, users can enable the settings lock to prevent changes caused by accidental touches or other reasons.

2.2.1 Set password

Go to **Settings** > **More Settings** > **Settings Lock** and turn on the button.

When enabled, users can configure and modify a 4-digit settings lock password (number only). The password is required to enter the settings menu each time.

2.2.2 Change password

Users can choose to change password. Go to **Settings** > **More Settings** > **Settings Lock** > **Change Password**.

2.2.3 Reset password

If the password is forgotten, it can be reset, but this action will erase all user configurations. Proceed with caution.

Step

In live view interface, hold  to confirm restore device to factory settings.

2.3 Center temperature alarm is supported

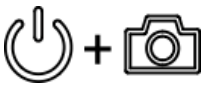
Set the alarm rules and the device will alarm when the center temperature triggers the rule.

Note

- The center temperature point is enabled by default.

- If the center temperature point is turned off, it must be enabled again to use the alarm function.

Steps

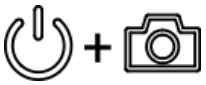
1. In live view interface, press  together to enter imager menu.
2. Go to **Settings** > **Alarm Settings**.
3. Press  to enable the alarm.
4. Select **Alarm Threshold** to set the threshold temperature.
5. Press  to save and return to the live view interface. When the center temperature exceeds the alarm temperature, the temperature value in the lower right corner turns red.

2.4 Image modes are available

Note

Some models do not support switching image mode. Refer to your actual device.

For devices that support both visual and thermal imaging lenses, you can switch the image mode as follows:

1. In live view interface, press  together to enter imager menu.
2. Go to **Settings** > **Image Mode**.
3. Press  to switch the image mode.

- Thermal: Thermal Imaging Only
- Fusion: Merge the visual image to the thermal image and show live view of the fused image. The edges of the image are clearer than those in Thermal Mode.
- PIP (Picture in Picture): In PIP mode, the device displays thermal view inside the visual view. This function is only supported by the models with visual lens.
- Visual: Visual object image only. This function is only supported by the models with visual lens.

Note

Fusion mode does not support ODE. After enabling fusion mode, ODE will be turned off.

4. Press  to save and return to the live view interface.

2.5 Display settings menu is added

Display settings menu is added in settings. It includes thermal readout, palettes icon, the highest (Max), lowest (Min) and center (Cen) temperature points, time and date configuration, status icon, and SuperIR logo.

2.6 New functions are suppored in HIKMICRO Viewer

The camera can be connect to the HIKMICRO Viewer via Wi-Fi or hotspot. Use the app to control the device for capturing, recording, switching image modes, and selecting your preferred palette.

3 Optimizations

- Change the default emissivity value to 0.98.
- Palettes coloring in rescue mode starts from 65°C.
- Optimized visual image mode displays.
- Enhanced details in low-temperature areas under high-temperature fire scenarios.
- Shortened the calibrating time for smoother display.
- Set smooth mode as the default palettes.

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 USB-C to USB-A 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.
- Select USB Drive as the USB mode.
- Keep the camera powered on.

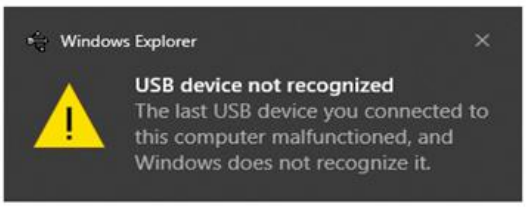
4.2 What should I do when my PC notifies power surge on the USB port?



Check the following items:

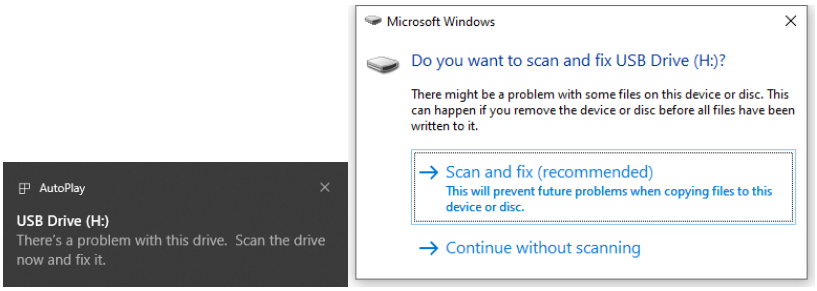
- When you are looking for an adapter of USB-C to USB-A, please choose an unpowered hub. A powered hub such as Surface Dock Station is not compatible.
- If you are using a built-in USB PowerShare port in your PC, please try another port.

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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