



**HIKMICRO**

**SP Series**

**Handheld Thermal Camera (V5.5.45)**

**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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# TABLE OF CONTENTS

<b>Chapter 1 Introduction .....</b>	<b>1</b>
1.1 Version Information.....	1
<b>Chapter 2 New Features .....</b>	<b>2</b>
2.1 Editing captured images before saving them .....	2
2.2 Select functions and parameters via navigation button.....	2
2.3 New palette color available – blue red.....	2
2.4 Lens information display.....	2
2.5 Circle tool .....	2
2.6 Select to display certain measurement tools.....	3
2.7 Compass background calibration .....	3
2.8 Add a new language .....	3
2.9 Forbidden version rollback .....	3
<b>Chapter 3 Optimizations.....</b>	<b>4</b>

# Chapter 1 Introduction

Handheld thermal camera is an ideal solution that provides accurate non-contact temperature measurement and heat distribution image 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 V5.5.45 of SP series cameras.

## 1.1 Version Information

Item	Description
Firmware Version	V5.5.45 build 230323
FPGA Version	V1.00.06BUILD20230327
Algorithm Version	V2.1.6 build 230214
Models	SP60, SP60H
Mobile Client	HIKMICRO Viewer, latest version
PC Client	HIKMICRO Analyzer, V1.3.1 HIKMICRO Inspector, V1.2.1

## 1.2 Firmware Upgrade Notes

Welcome to visit the HIKMICRO official website (<https://www.hikmicrotech.com/en/industrial/>) to download the latest **Firmware** zip file and unzip it to get Firmware and FPGA (if applicable) files.

To realize all the features mentioned in this document, you should firstly upgrade **Firmware** and secondly upgrade **FPGA** (skip FPGA if not applicable) to the versions indicated in the above table.

A How-to **video** in the Download Center can guide you to upgrade your industrial HIKMICRO handheld thermal cameras.

The way of upgrading FPGA is the same as upgrading the firmware. The process of upgrading FPGA may take a few minutes. Please close **Auto Power-off** before the process. Otherwise, the process may fail and you will have to try it again.

## Chapter 2 New Features

### 2.1 Editing captured images before saving them

You can edit one captured image (adding text note, voice note and QR code information) right after triggering the capture action, saving much trouble of locating the images in the albums.

You can enable or turn off the function from **Settings** → **Capture Settings** → **Edit before Saving**.

The function only works when the **Capture Mode** (**Settings** → **Capture Settings**) is set as **Capture One Image**.

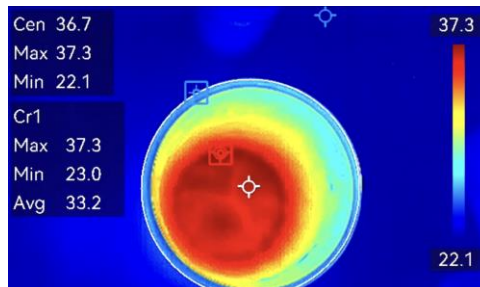
### 2.2 Select functions and parameters via navigation button

Press **OK** to switch functions in the menu bar.

Press **△**, **▽**, **◀**, and **▶** to select parameters in **Local Settings**. Press **OK** to confirm.

### 2.3 New palette color available – blue red

In this firmware version, a new thermal palette color, Blue Red, is available. The red end stands for the higher temperature in the scene while the blue end stands for the lower temperature.



### 2.4 Lens information display

Go to **Device Information** → **Lens Information** to view interchangeable lens types supported by the device.












### 2.5 Circle tool

A circle tool suits a round area or object better than other tools in temperature measurement.

To use the tool, select it from **Measurement** and resize the displayed circle to cover the target as much as possible.



### Steps

1. Tap  to generate a default circle.
2. Move the circle to the required position.
  - Tap the circle, and press , ,  and  to move the circle up/down/left/right.
  - Tap and drag the circle on touch-screen to move it to the required position.
4. Adjust the size of the circle.
  - Tap one point on the circle, and press , ,  and  to enlarge or contract the circle.
  - Tap and drag one point of the circle on touch-screen to enlarge or contract it.
5. Tap  to modify temperature measurement parameters.
6. Press  to save the settings.

For more operation and settings, please refer to the user manual of the handheld thermal camera (V5.5.45)

## 2.6 Select to display certain measurement tools

After configuring measurement tools, users can select the tools they want to display on the live view interface.

## 2.7 Compass background calibration

The compass performs automatic calibration in the background. The calibration prompt will not pop up to interrupt users' operations.

## 2.8 Add a new language

Arabic is introduced in V5.5.45 of SP series.

## 2.9 Forbidden version rollback

If you upgrade the device to the latest version, it cannot be reverted to an older version.

## Chapter 3 Optimizations

HIKMICRO SP series handheld thermal cameras have been optimized to improve your experience.

- User interface layout and interaction improved.
- Measurement tools (including spot, line, rectangle and circle): Offered independent and more convenient settings of temperature measurement parameters and result display control for each individual tool.
- Manual mode operation of Level & Span improved.
- The operation sensitivity of the swipe-down menu improved.
- Local radiometric image analysis improved. Focus mode palettes and fusion mode are supported in this function.
- Focus mode palettes and fusion mode can be enabled at the same time.
- Auto Level & Span is enabled once the device is powered on.
- The operation of the soft keyboard improved.
- The brand logo effect on live view interface enhanced.



**HIKMICRO**

See the World in a New Way