



HIKMICRO M Series
Handheld Thermal Camera (V5.5.43)

Release Notes

Legal Information

© 2023 Hangzhou Microimage Software Co., Ltd. All rights reserved.

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.

Trademarks



HIKMICRO and other HIKMICRO's

trademarks and logos are the properties of HIKMICRO in various jurisdictions.

Other trademarks and logos mentioned are the properties of their respective owners.

LEGAL DISCLAIMER

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS MANUAL AND THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, ARE PROVIDED "AS IS" AND "WITH ALL FAULTS AND ERRORS". HIKMICRO MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE. THE USE OF THE PRODUCT BY YOU IS AT YOUR OWN RISK. IN NO EVENT WILL HIKMICRO BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA, CORRUPTION OF SYSTEMS, OR

LOSS OF DOCUMENTATION, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY, OR OTHERWISE, IN CONNECTION WITH THE USE OF THE PRODUCT, EVEN IF HIKMICRO HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSS. YOU ACKNOWLEDGE THAT THE NATURE OF THE INTERNET PROVIDES FOR INHERENT SECURITY RISKS, AND HIKMICRO SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER-ATTACK, HACKER ATTACK, VIRUS INFECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, HIKMICRO WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED. YOU AGREE TO USE THIS PRODUCT IN COMPLIANCE WITH ALL APPLICABLE LAWS, AND YOU ARE SOLELY RESPONSIBLE FOR ENSURING THAT YOUR USE CONFORMS TO THE APPLICABLE LAW. ESPECIALLY, YOU ARE RESPONSIBLE, FOR USING THIS PRODUCT IN A MANNER THAT DOES NOT INFRINGE ON THE RIGHTS OF THIRD PARTIES, INCLUDING WITHOUT LIMITATION, RIGHTS OF PUBLICITY, INTELLECTUAL PROPERTY RIGHTS, OR DATA PROTECTION AND OTHER PRIVACY RIGHTS. YOU SHALL NOT USE THIS PRODUCT FOR ANY PROHIBITED END-USES, INCLUDING THE DEVELOPMENT OR PRODUCTION OF WEAPONS OF MASS DESTRUCTION, THE DEVELOPMENT OR PRODUCTION OF CHEMICAL OR BIOLOGICAL WEAPONS, ANY ACTIVITIES IN THE CONTEXT RELATED TO ANY NUCLEAR EXPLOSIVE OR UNSAFE NUCLEAR FUEL-CYCLE, OR IN SUPPORT OF HUMAN RIGHTS ABUSES. IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATTER PREVAILS.

TABLE OF CONTENTS

Chapter 1 Introduction	1
Chapter 2 New Features	2
2.1 Editing captured images before saving them	2
2.2 Thumbnail display after capturing one image	2
2.3 New palette color available – Blue Red	2
2.4 New display mode – blending	3
2.5 New measurement tool – circle tool	3
2.6 Device sleep mode supported	4
2.7 Resizing PIP frame freely	4
2.8 Swipe-down menu for function quick settings	4
2.9 Smoother digital zoom	5
2.10 SuperIR for thermal image.....	5
Chapter 3 Optimizations.....	6

Chapter 1 Introduction

The handheld Thermal cameras 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 V5.5.43 of M series cameras.

For detailed operation guide, please refer to the user manual of M series handheld thermal camera, V5.5.43.

Version Information

Item	Description
Firmware Version	V5.5.43 build 230412
FPGA Version	V1.04.03 BUILD20230316
Algorithm Version	V2.1.6 build 20230315
Models	M30
Mobile Client	HIKMICRO Viewer, latest version
PC Client	HIKMICRO Analyzer, V1.3.1

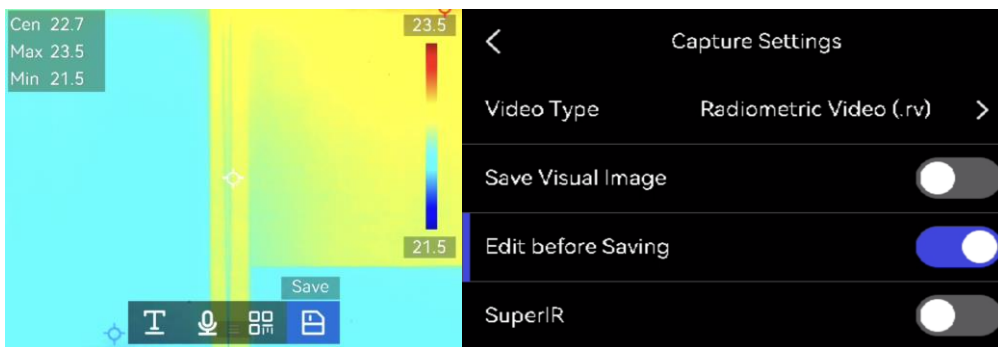
Chapter 2 New Features

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 the image is captured, saving you the trouble of locating images in the albums.

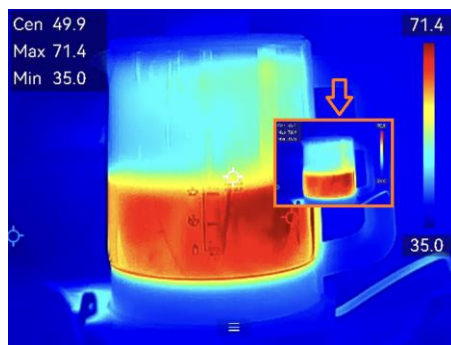
You can enable or turn off the function from **Settings** → **Capture Settings** → **Edit before Saving**.

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



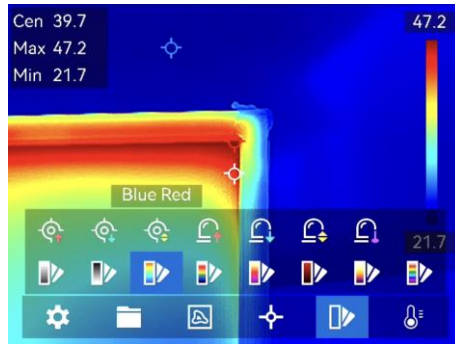
2.2 Thumbnail display after capturing one image

When you set the capture mode as **Capture One Image** and **Edit before Saving** as **OFF**, a thumbnail displays on the screen after capturing.



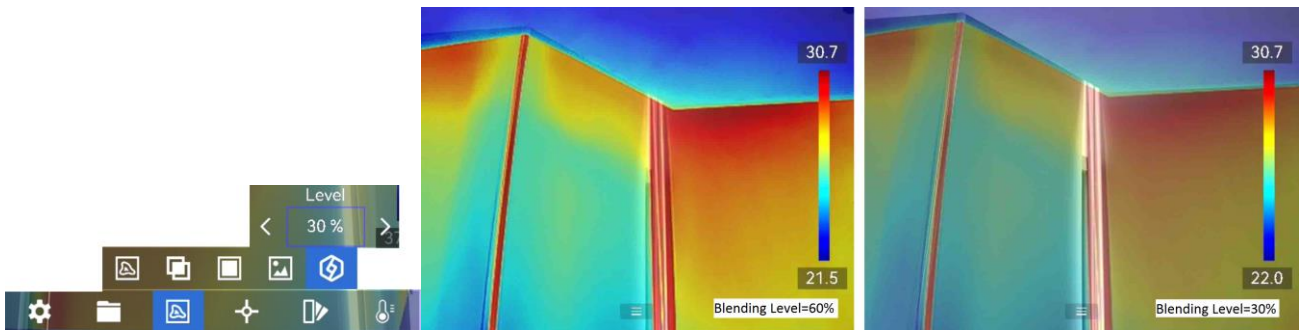
2.3 New palette color available – Blue Red

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 New display mode – blending

Blending mode displays the mixed image of visual and thermal channels with adjustable blending level. Higher level means higher proportion of thermal elements in the image.

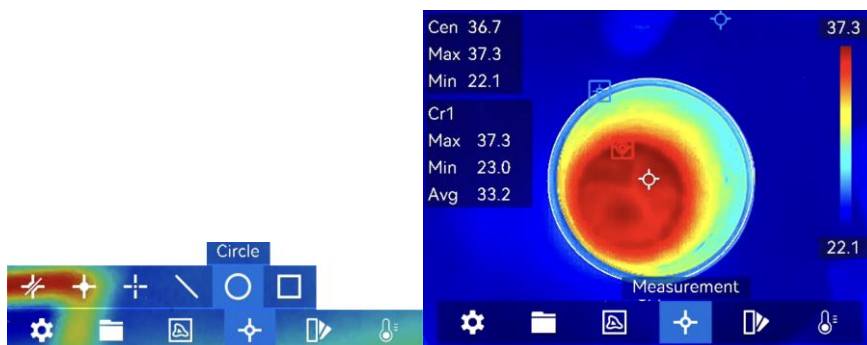


2.5 New measurement tool – circle tool








A circle tool suits a round area or object.

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

Up to 5 circle tools are supported.



Steps

1. Select .
2. Press  or tap  to generate a default circle.
3. 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 Δ , ∇ , \triangleleft to enlarge or contract the circle.
 - Tap and drag one point of the circle on touch-screen to enlarge or contract it.
6. Press OK to save the settings.

For more operation and settings, please refer to the user manual of the handheld thermal camera (V5.5.43).

2.6 Device sleep mode supported

In sleep mode, device screen is off to conserve your battery's charge.

Press Power to enter sleep mode and press it again to wake the device up.

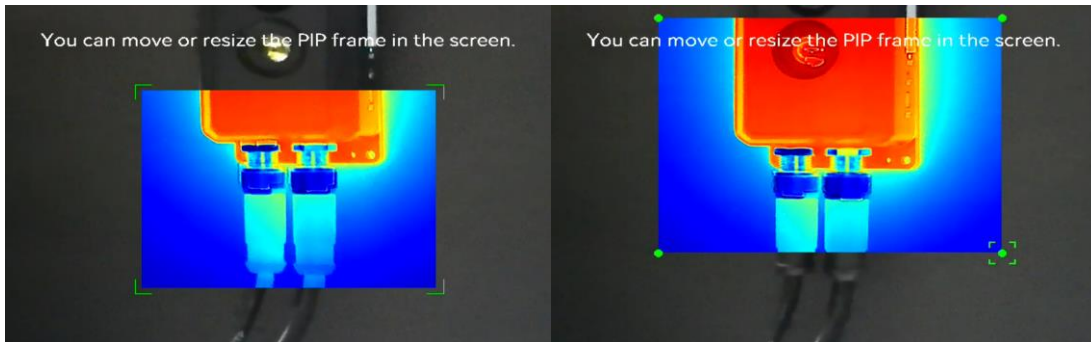
You can also set device auto sleep from **Settings** → **Device Settings** → **Auto Sleep**. When there is no button pressing or screen tapping operation on device for more than the set waiting time, device enters sleep mode automatically.

2.7 Resizing PIP frame freely

With this version, you are able to adjust the size and position of the PIP frame.

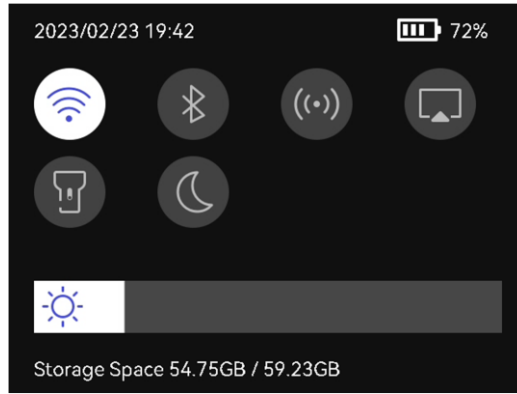
Drag the interior thermal image frame (the left picture) to adjust its position.

Drag a corner of the thermal image frame (the right picture) to adjust its size.



2.8 Swipe-down menu for function quick settings

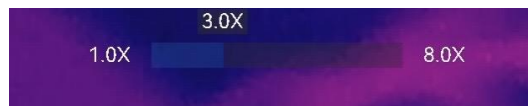
In live view interface, swipe on screen from upper to lower to call the swipe-down menu. With this menu, you can turn on/off device function, change display theme, and adjust screen brightness.



2.9 Smoother digital zoom

This version allows more digital zoom operation to achieve better zooming effect. In the live view interface, press ∇ to enter the digital zoom setting interface.

- Hold \triangleleft or \triangleright to zoom in or zoom out continuously.



- Press \triangleleft or \triangleright to fine-tune the zooming ratio.

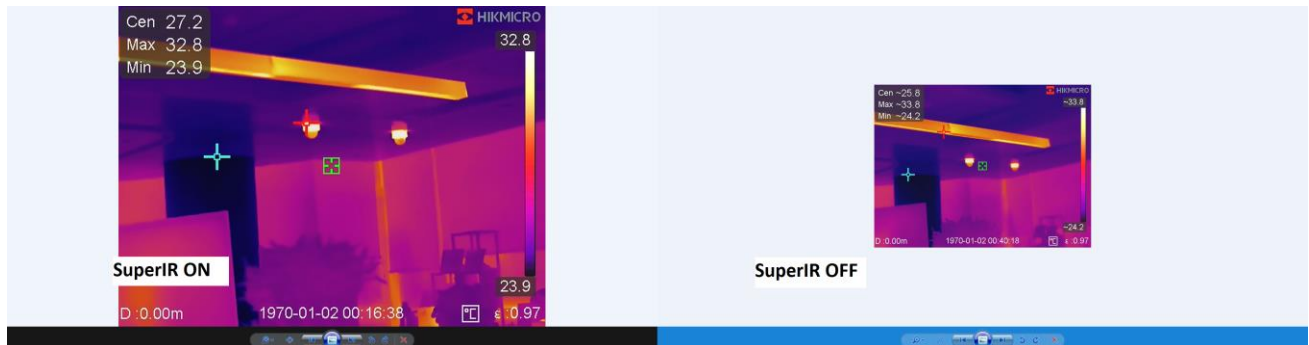


- Tap the zooming ratio slider, and drag it to the left or right to adjust zooming ratio.

2.10 SuperIR for thermal image

SuperIR offers an option to export captured thermal images with resolution 4-time higher than the original image.

Turn on SuperIR before capturing images from **Settings** → **Capture Settings**.



Chapter 3 Optimizations

HIKMICRO M 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.
- Measurement tools: the number of available rectangle tools is adjusted to 5.
- Manual mode operation of Level & Span improved.
- Introduced albums to manage local images and videos.



HIKMICRO

See the World in a New Way