

# THERMOGRAPHY CAMERAS

## PRODUCT INTRODUCTION

### Pocket Series Introduction



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1. **OVERVIEW OF PRODUCTS**
2. **KEY FEATURES**
3. **INCLUDED SOFTWARE**



# Pocket Series - Overview



## Basic Parameters

IR Resolution	256 x 192 (Pocket2) 192 x 144 (Pocket1)
Object Temperature Range	-20°C ~400°C
Accuracy	Max ( $\pm 2^{\circ}\text{C}$ , $\pm 2\%$ )
FOV	50 °H x 37.2 °V (Pocket2) 37.5° H x 28° V (Pocket1)
Display	3.5" LCD Screen
Weight	Approx. 218 g
Battery Life	Approx. 4 Hours
What' s in Box	Pocket, Pouch, Charger, Cable, QSG, Wrist Strap



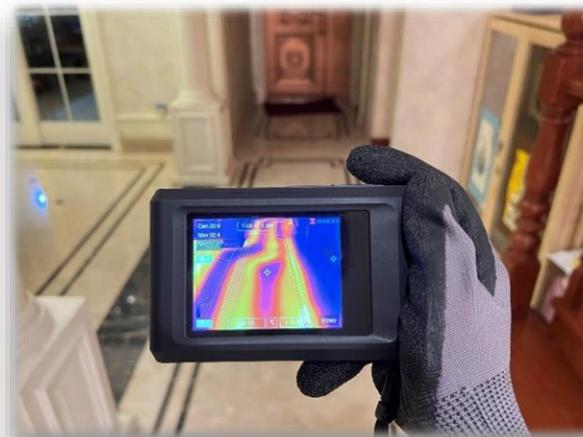
**Pocket2 / Pocket1**

# Pocket Series - Key Features



## High Image Quality

HIKMICRO VOx 256×192 detector (NETD < 40 mK) for a distinct thermal image of the target.



## Fast Image Frequency

25 Hz delivers smooth video while panning across scenes or viewing moving targets.



## On-camera Recording

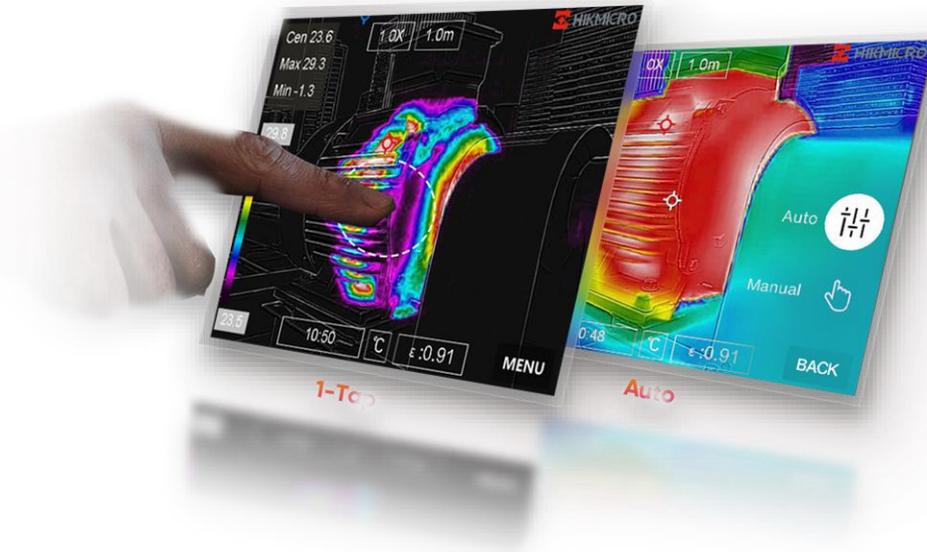
Built-in 16GB internal memory provides onboard recording and playback.



# Pocket Series - Key Features

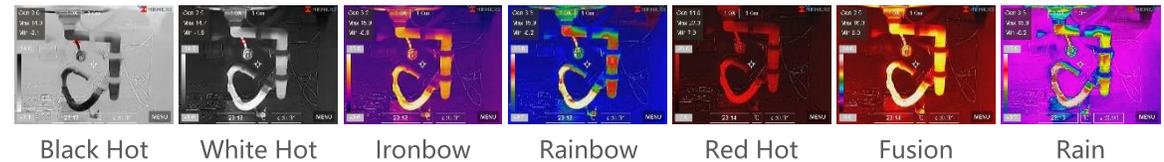
## Multiple Level & Span Modes

Three Level & Span modes (manual, automatic, and 1-Tap) help you instantly improve image contrast and highlight potential problems.



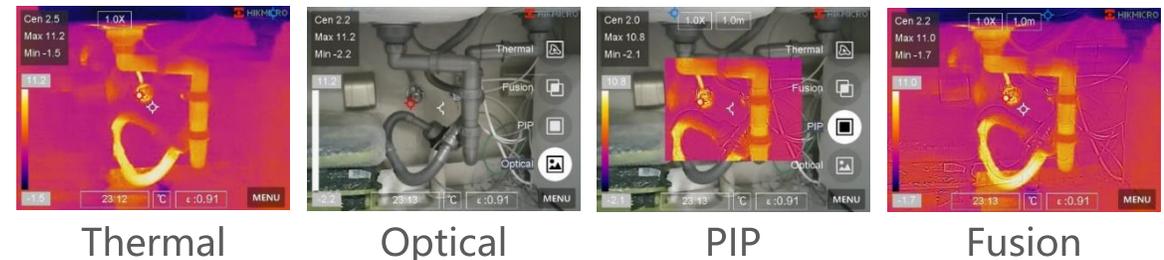
## 7 Color Palettes

7 color palettes give different image display options.



## 4 Image Modes

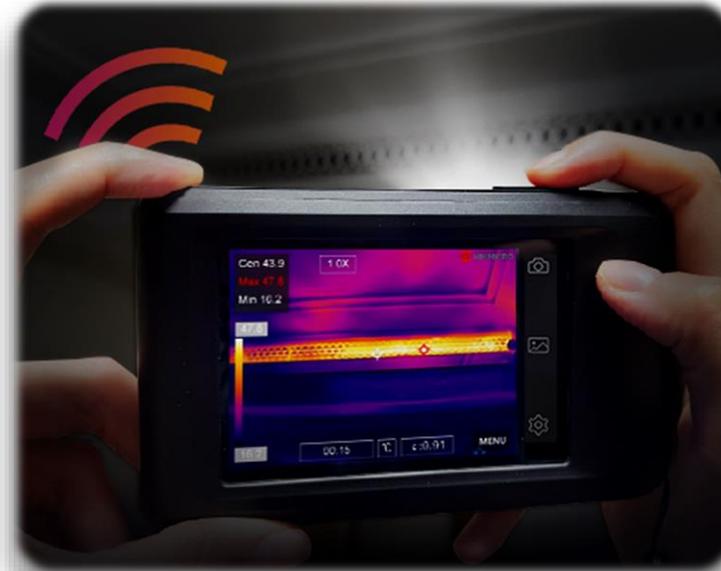
Thermal, Fusion, PIP, and Optical modes to suit your preferred view.



# Pocket Series - Key Features

## Faster Troubleshooting

Built-in buzzer and flashlight give the operator audio and visual alerts to high temperatures. Full-screen measurement using different user presets checks everywhere instantly.



## Portable Pocket-sized Design

Easy to carry and hold. It fits perfectly in your pocket and tool bag.

## Rugged & Durable Design

With IP54 rated for camera protection against water and dust and a 2-meter (6.6ft) Drop Protection, suitable for industrial use.



2-meter  
Drop Protection



LED Flashlight



IP54

# Pocket Series - Key Features



## Flexible 3.5" LCD Touch Screen

View the details of your target from different angles on the large, class-leading, and auto-orientation 3.5" LCD Touch Screen.



# Pocket Series - Key Features



## Fast Communication

Connect (Wi-Fi or Hotspot) to HIKMICRO Viewer App for transmitting pictures from camera to mobile phone. Analyze, share images and generate reports in real-time on-site.

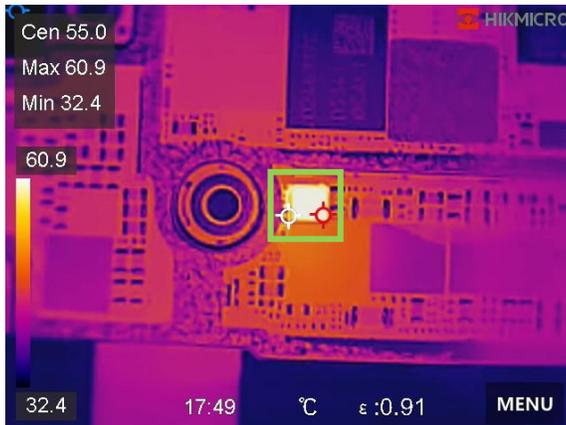


# Pocket Series - Key Features



## Innovation Macro Mode

Using a clip-on macro lens, the Pocket Series cameras can see details as small as 500 microns and allow you to take accurate temperature readings on small objects, such as components on printed circuit boards or assemblies.



**With Macro Lens**



**Without Macro Lens**



# Pocket Series - Packing List



Thermal Imager with Wrist Strap



Pouch



Power Supply



USB Cable



Quick Start Guide



Calibration Certificate

# Optional Accessories



## Desk Mount Bracket

( HM-2925ZJ-TM01-BRACKET )

- PCB Testing Bracket
- UNC ¼" -20 Tripod Mounting Bracket
- Compatible with E/B/Pocket/M Series



## Macro Lens

(HM-P201-MACRO)

- Compatible with Pocket2, Pocket1
- Magnification: 0.12X
- Focus Distance: 30 mm
- Minimum Target Size for Accurate Temperature Measurement: 500  $\mu$ m
- Accurate Temperature Range: -20~150 °C(-4~302°F), Max( $\pm$ 3°C,  $\pm$ 3%)



# Pocket Series – Application Scenarios



## Electrical Cabinet

Electricians



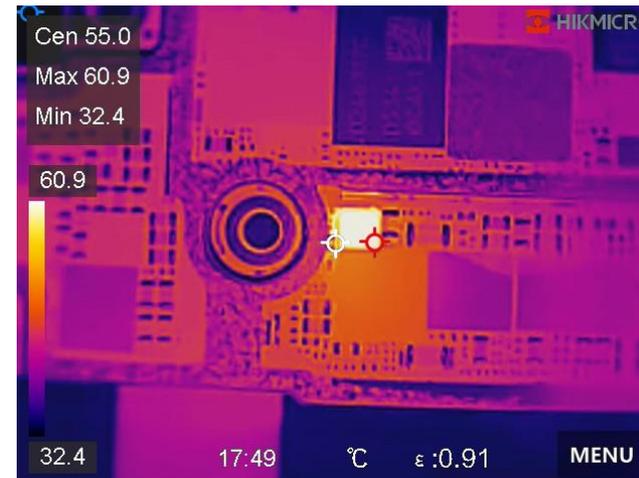
## Check Machine Temperature

First Level Maintenance



## Check Hot Water Pipe

Building Inspection



## Components Testing

Mobile Phone Repair

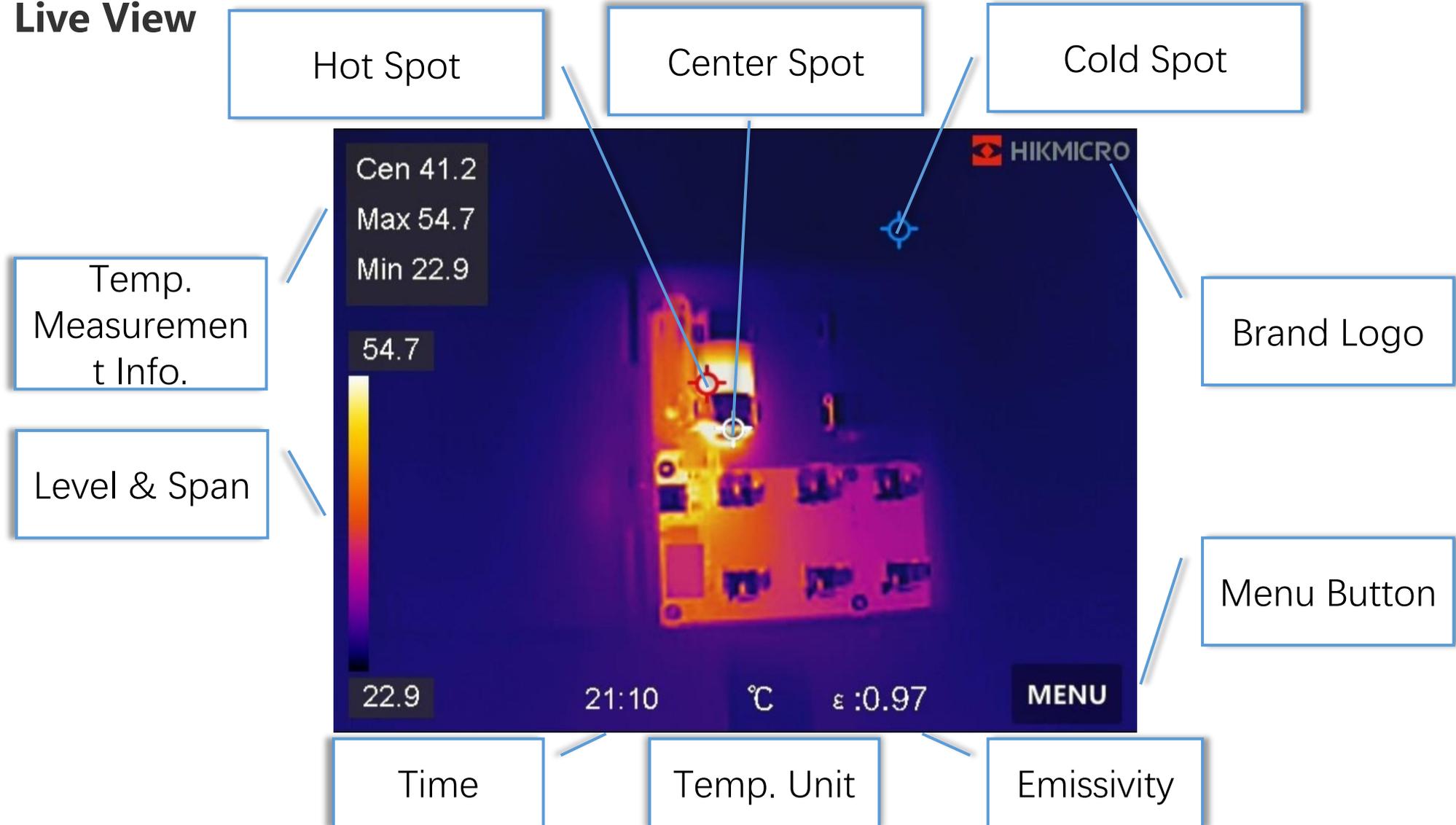
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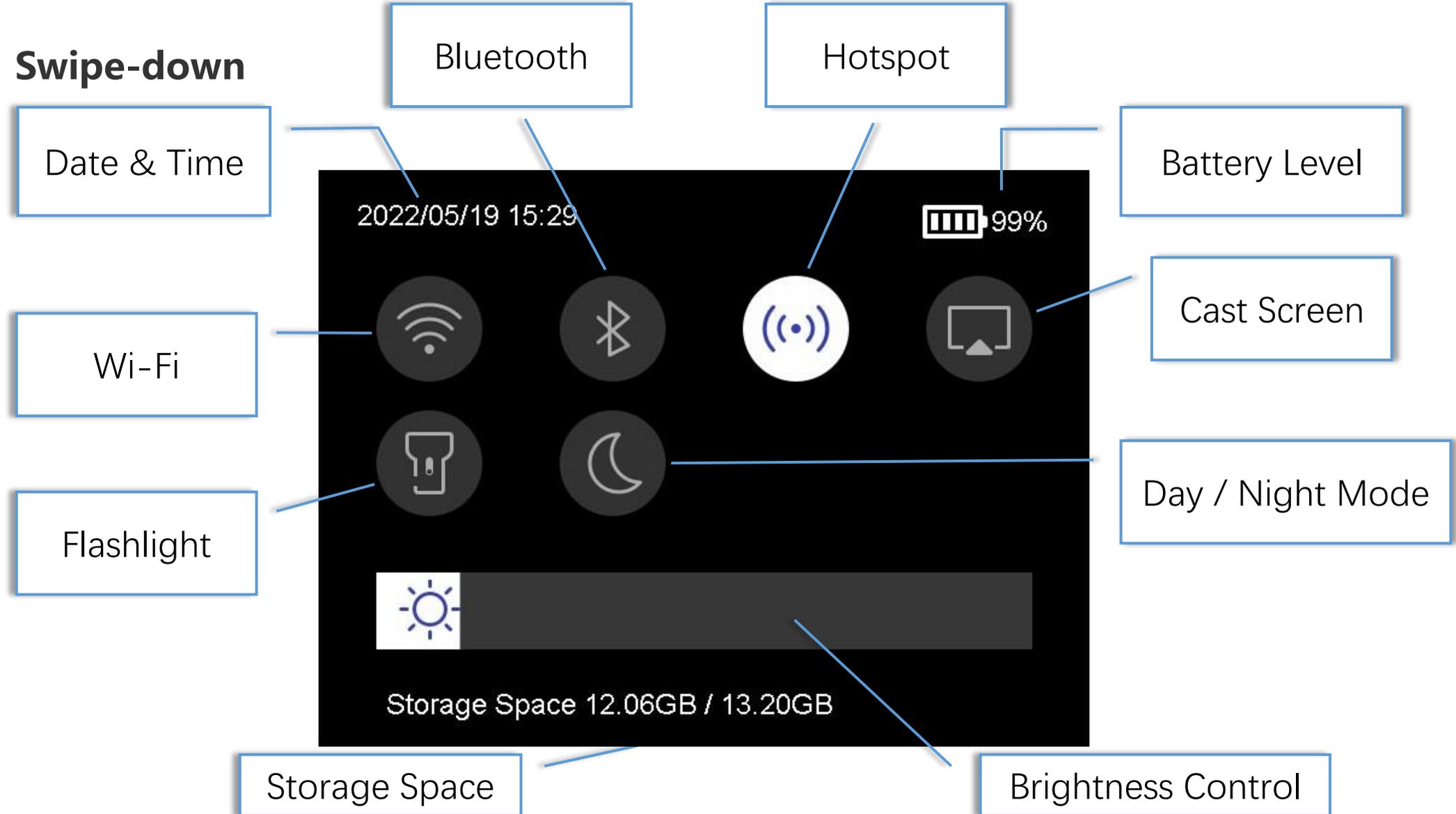
# Menu Overview

## ◆ Live View



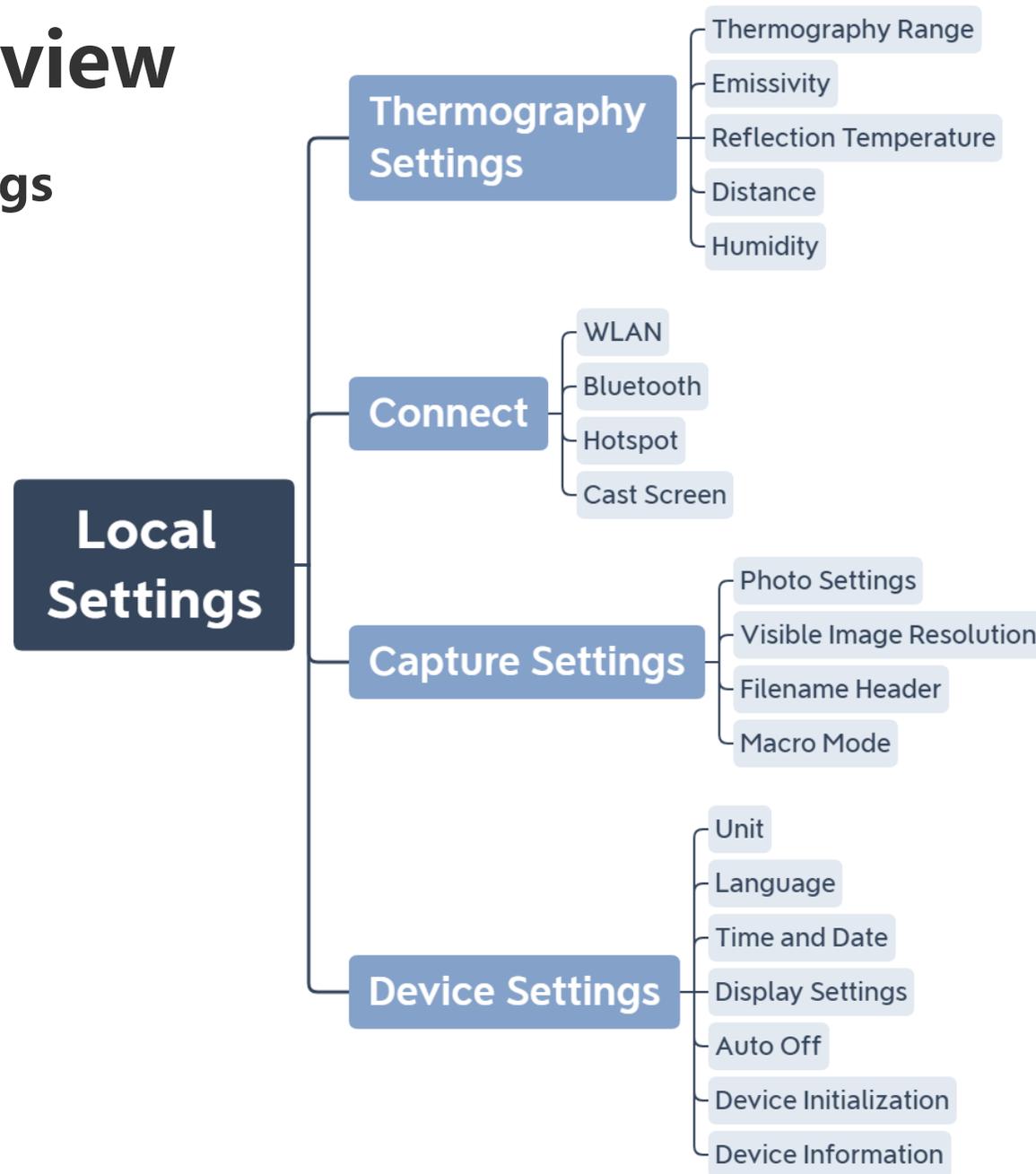
# Menu Overview

## ◆ Swipe-down



# Menu Overview

## ◆ Local Settings



# Features Overview



Type	Highlight Features	Pocket
Image	Image Mode	Thermal/Fusion/PIP/Optical
	Color Palettes	7 palettes
	Digital Zoom	1.0-4.0
	Level & Span	Auto/Manual/1-Tap
Storage	Record	16 GB
	Albums Management	Yes
Connection	Wi-Fi	Yes
	Bluetooth	Yes
	Hotspot	Yes
UVC	Image Output	Yes
	Menu Output	Yes
LED Light	Flashlight	Yes
Touch Screen	Touch Screen	Yes
Screen Autorotation	Screen Autorotation	Yes
View On-Device Files on Viewer	View On-Device Files on Viewer	Yes

# Key Features



## ◆ Swipe-down Menu



You can drag the brightness adjustment bar in the swipe-down menu.

Enable functions such as Wi-Fi, Bluetooth, Hotspot, Screen Cast, flashlight, and Dark/Bright Mode.

# Key Features



## ◆ Adjust Digital Zoom

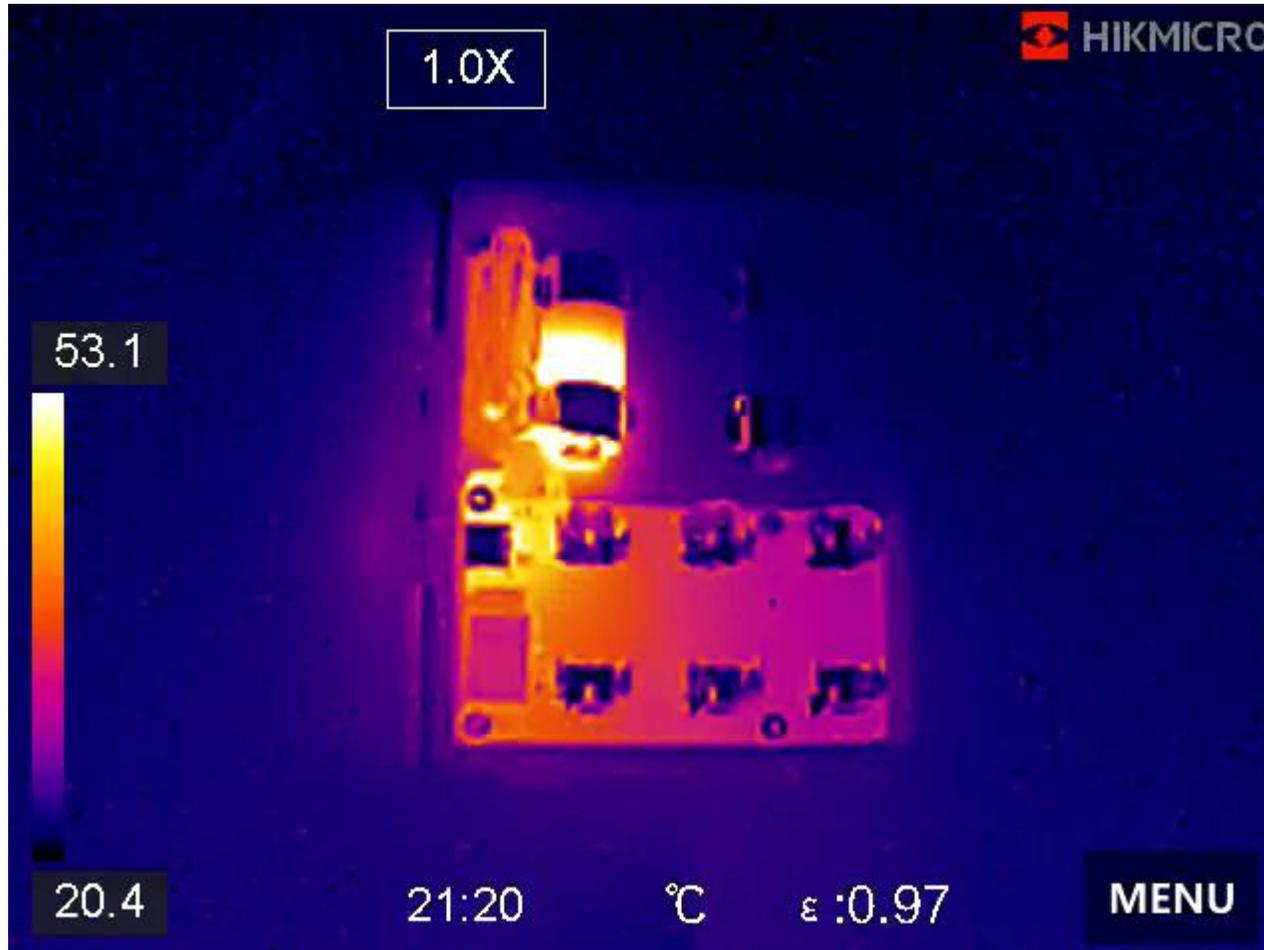


1. Tap the live view interface to call the digital zoom frame.
2. Tap the digital zoom frame.
3. Select the digital zoom value as required
4. Tap the screen to save and exit.

# Key Features



## ◆ Set Thermography Rule



1. Tap **Menu**, and select .
2. Tap to select the thermography rule as required. **Hot, Cold,** and **Center** are selectable.
3. Tap **Back** to save and exit.

### Note

- 1.The min., max., and center temperatures are displayed on the left top of the screen.
- 2.Tap the rule again to delete the rule.

# Key Features

## ◆ Set Level & Span (New 1-Tap Level & Span Mode)



1. Tap **Menu**, and select .
2. Select auto adjustment  or manual adjustment .
3. Press **Back** to exit.

# Key Features



## ◆ Set Display Mode



1. Tap **Menu**, and select .
2. Tap the icons to select a view mode.
3. Press **Back** to exit.

# Key Features



## ◆ Set Palettes



1. Tap **Menu**, and select .
2. Tap the icons to select a palette type.
3. Press **Back** to exit the setting interface.

# Key Features



## ◆ Capture Picture



### Before You Start

Enable the flashlight via the swipe-down menu in dark environment.

### Steps

1. Go to **Local Settings** → **Capture Settings**.
2. Select **Photo Settings** to set the capture mode.
3. Select Picture Type to set the picture type.
4. Optional: Set the optical resolution as needed.
5. Press < to exit.
6. In the live view interface, press the capture key to capture snapshot.

# Key Features

## ◆ Record Video



### Before You Start

Enable the flashlight via the swipe-down menu in dark environment.

### Steps

1. In the live view interface, hold the capture key to start recording. The recording icon and count down number display in the interface.
2. When you finish, press the capture key to stop recording. The recording video will be saved automatically.

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# HIKMICRO Analyzer - Procedure



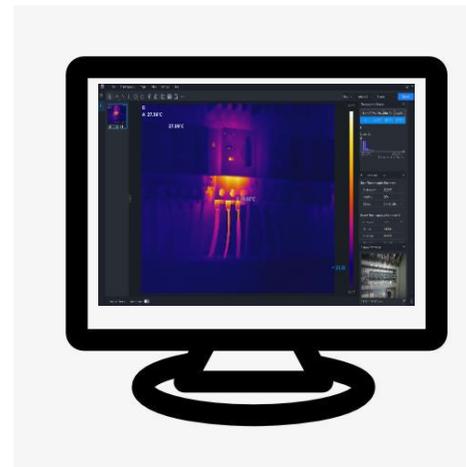
 **HIKMICRO Analyzer**

HIKMICRO Analyzer is a professional and free software that allow users to view, edit, analyze images. It offers flexible ways to analyze information from radiometric images and supports generating intuitive reports. Available in multiple languages, the software plays an important role in improving the efficiency of system troubleshooting and increasing productivity.

**HIKMICRO Analyzer**  
V1.1.0.500 build 220424



Thermal imaging on site

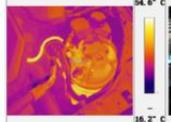


Analyze on computer



**Test Report**

Test Point1:



Basic Information  
Capture Time: Jan. 28 2021  
Device Model: HM-TP23-10VF-W-AD30  
Device Serial No.: HM-TP23-10VF-W-AD020201105AAWEP0413044

Thermography Information

Thermography Point	Temp
High Temperature Point	54.6°C
Center	28.45°C
Low Temperature Point	-16.16°C

Line and Area rule

Thermography Rule	Max. Temp.	Average Temp.	Min. Temp.
Thermography Parameter			
Emissivity	0.97		
Distance	1.000meter		
Humidity	50%		
Environment Temperature	25.00°C		
Reflective Temperature	25.00°C		

Thermography Rule	Emissivity	Reflective Temperature	Distance
Test Note			

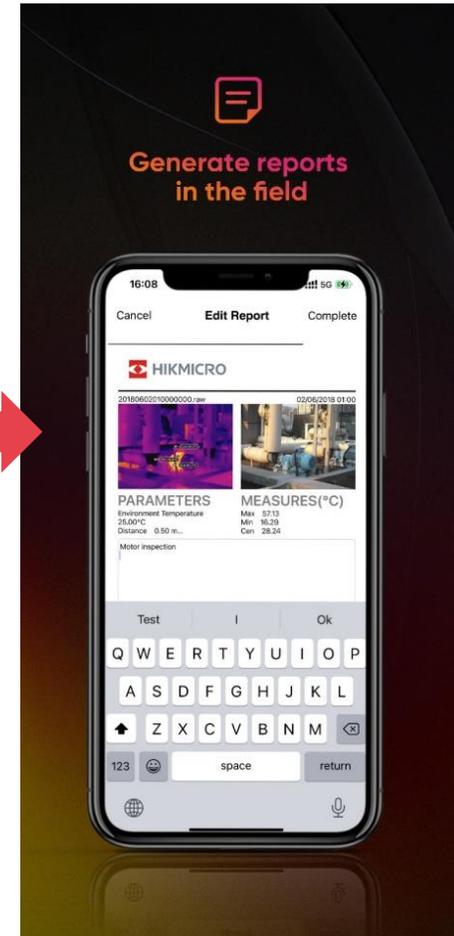
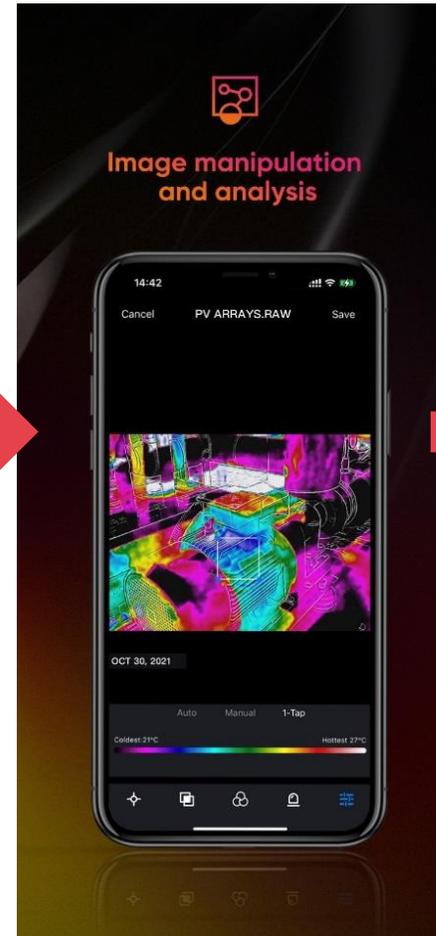
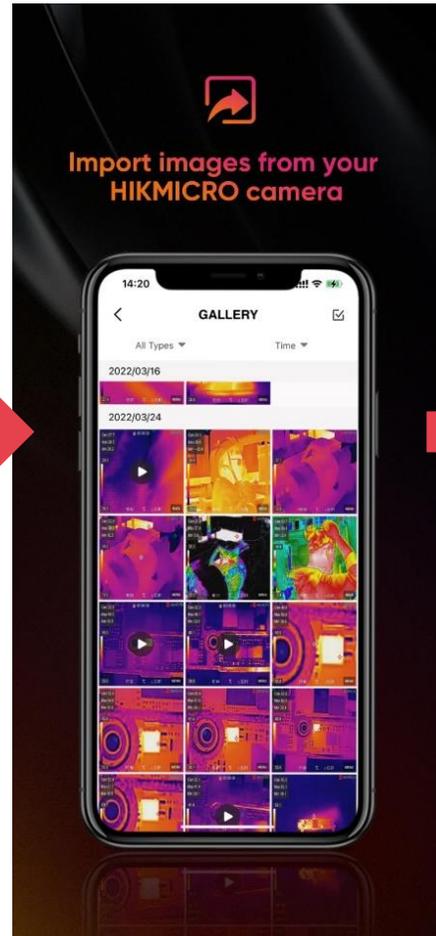
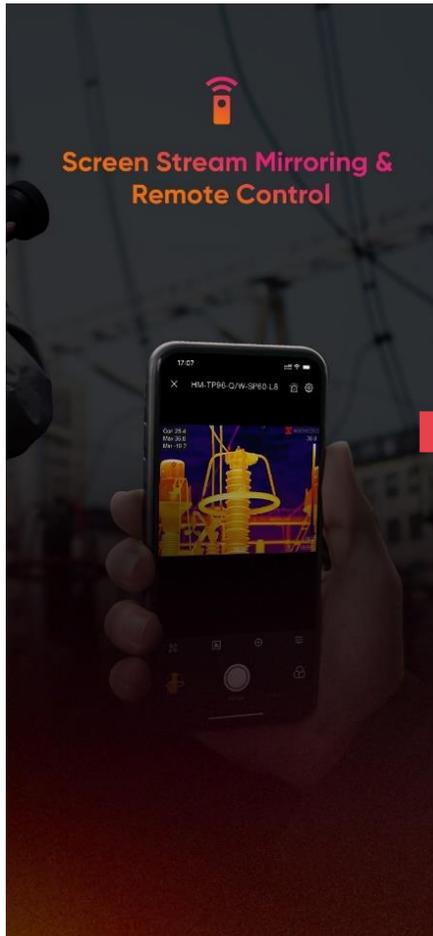
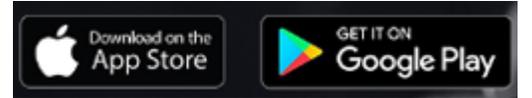
Test Point2:

Export report

# HIKMICRO Viewer – Procedure



**HIKMICRO Viewer**  
V1.11.0 build 20220427



# THANK YOU

See the World in a New Way