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HIKMICRO Pocket 2

HIKMICRO Pocket2 Thermal Camera Instruction Manual

Model: Pocket 2

1. Introduction

The HIKMICRO Pocket2 Thermal Camera is a compact, powerful thermal imaging device designed for professionals and DIY enthusiasts. It combines a high-resolution infrared sensor with an 8MP visual camera to provide detailed thermal and visual images, enabling efficient troubleshooting and inspection across various applications. Its user-friendly interface and robust design make it an essential tool for identifying heat-related issues.

2. What's in the Box

Upon opening your HIKMICRO Pocket2 package, please ensure all the following items are included:

- Pocket2 Thermal Imager x1
- US Charger x1
- USB Cable x1
- Protection Case x1
- User Manual x1

Figure 2.1: Contents of the HIKMICRO Pocket2 package.

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Video 2.1: HIKMICRO Pocket Series Thermal Imager Unboxing Video. This video provides a visual guide to unboxing the device and its included accessories.

3. Product Overview & Interfaces

The HIKMICRO Pocket2 features a compact and durable design, making it easy to carry and operate in various environments. Familiarize yourself with the device's key components and interfaces:

- **3.5" LCD Touch Screen:** For intuitive navigation and clear display of thermal and visual images.
- **Power Button:** Located on the top edge for turning the device on/off.
- **Shutter Button:** Located on the top edge for capturing images and starting/stopping video recording.
- **Optical Lens:** 8MP visual camera for clear visible light images.
- **Thermal Lens:** 256x192 IR resolution sensor for thermal imaging.
- **LED Work Light:** Provides illumination in dark or hard-to-reach areas.
- **USB Type-C Port:** For charging and data transfer.
- **Tripod Mount Interface:** A standard 1/4-inch thread on the bottom for mounting to a tripod.

Figure 3.1: Front and back view of the HIKMICRO Pocket2 Thermal Camera.

Figure 3.2: The 3.5" LCD touch screen interface, showing various settings and options.

4. Setup & Initial Use

4.1 Powering On/Off

To power on the device, press and hold the Power Button located on the top edge until the HIKMICRO logo appears on the screen. To power off, press and hold the Power Button again until the device shuts down.

4.2 Connecting to HIKMICRO Viewer App

The HIKMICRO Pocket2 can connect to your smartphone via Wi-Fi for real-time image transfer, report generation, and remote control. Follow these steps:

1. Enable the camera's Hot Spot from the device settings.
2. On your mobile device, connect to the camera's Hot Spot via Wi-Fi.
3. Open the HIKMICRO Viewer app and log in to the camera. If it's the first time, you may need to activate the device by setting a password.
4. Once connected, you can access the live view interface, view on-device files, and download

pictures/videos.

Figure 4.1: Real-time image transfer and report generation via Wi-Fi connection to a smartphone.

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Video 4.1: How to Connect to HIKMICRO Viewer app. This video demonstrates the steps to connect your HIKMICRO Pocket2 to the mobile application.

5. Operating the Camera

5.1 Image Modes

The Pocket2 offers multiple image modes for clear scene image reference:

- **Thermal:** Displays only the infrared image.
- **Visual:** Displays only the visible light image from the 8MP camera.
- **PIP (Picture-in-Picture):** Overlays a small thermal image on the visual image.
- **Fusion:** Blends the thermal and visual images for enhanced detail.
- **Blending:** Allows adjustable transparency between thermal and visual images.

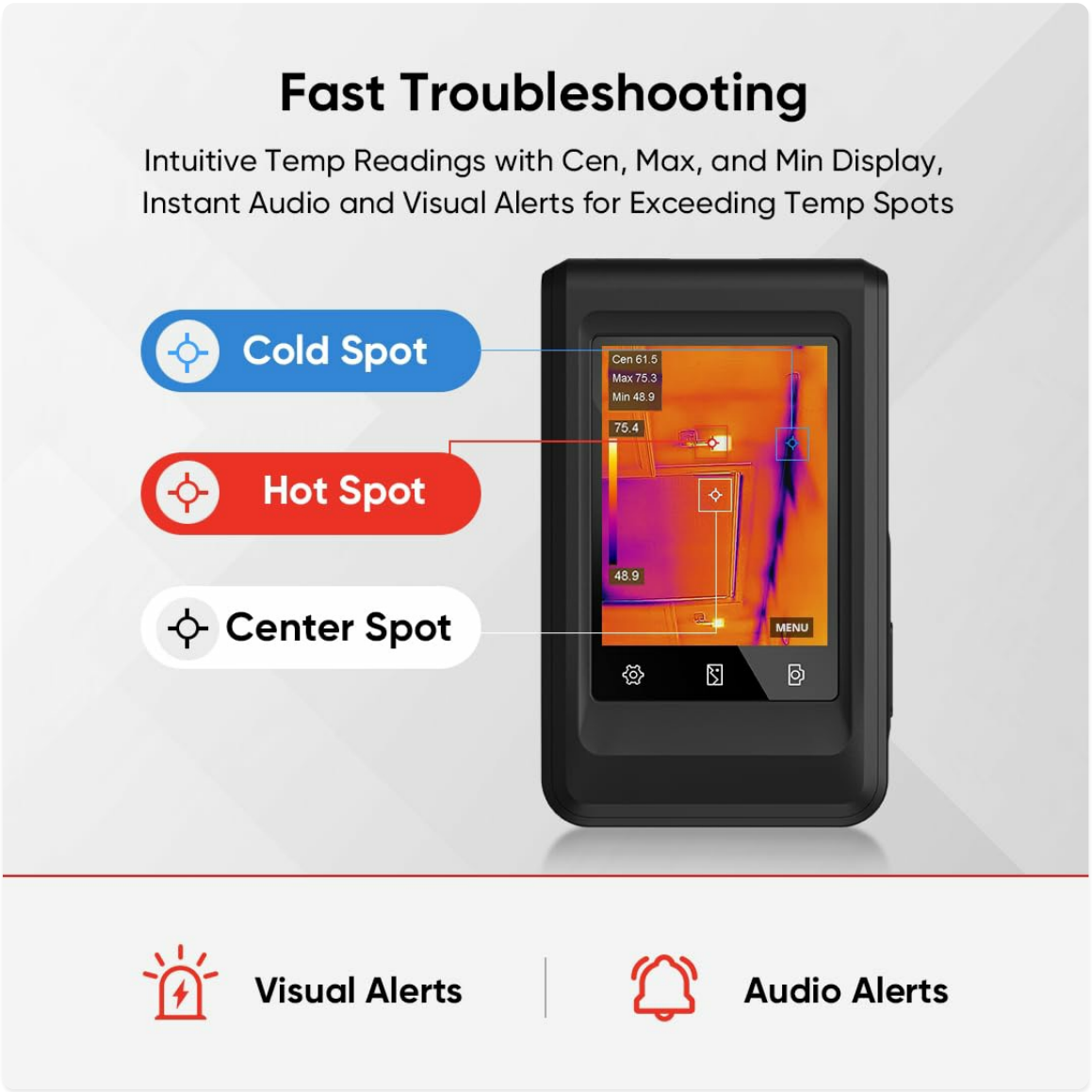

Figure 5.1: Examples of different image modes available on the HIKMICRO Pocket2.

5.2 Temperature Measurement

The device provides full-screen temperature measurement with Max, Min, and Center spot indicators. This helps in quickly identifying hot and cold spots within the thermal image.

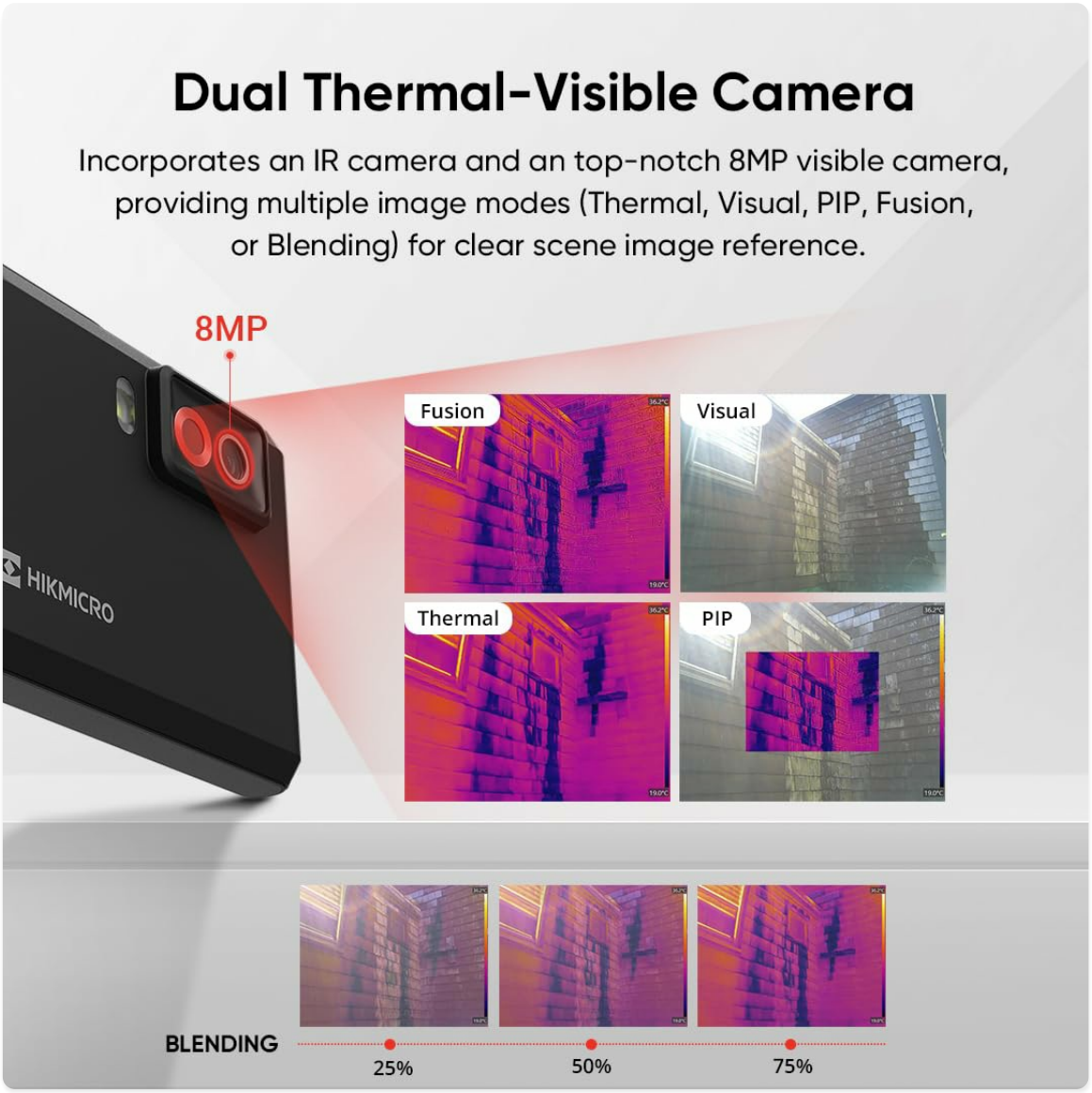

Figure 5.2: Identifying Cold, Hot, and Center spots for quick troubleshooting.

5.3 1-Tap Level & Span

Instantly improve image contrast and highlight potential problems with the 1-Tap Level & Span feature. This optimizes the thermal image for better clarity and problem identification.

Figure 5.3: Before and after applying 1-Tap Level & Span for improved image contrast.

5.4 Digital Zoom

The Pocket2 supports 1.0x to 4.0x continuous digital zoom, allowing you to get more detailed views of your inspection targets.

Figure 5.4: Accessing digital zoom and other quick settings via the touch screen.

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Video 5.1: How to use HIKMICRO Pocket Series. This video demonstrates various operating features of the thermal camera.

6. Advanced Features

6.1 Innovative Macro Mode

Using an optional clip-on macro lens, the Pocket2 can reveal details as small as 100 microns, allowing for precise temperature readings on tiny objects like circuit board components.

Figure 6.1: Using the macro mode to inspect small electronic components.

6.2 High Temperature Alarm

The device features an audio alarm and warning light to notify you when temperatures exceed or fall below a set threshold, ensuring immediate awareness of critical thermal events.

6.3 On-Camera Recording & Playback

The 16GB eMMC flash storage allows you to store approximately 60,000 standard thermal/visual images or up to 10 hours of recording videos directly on the device. You can review captured media directly on the camera's screen.

Figure 6.2: Simultaneously saving visual and thermal images with a single click.

7. Maintenance

7.1 Battery Life & Charging

The built-in Li-Ion rechargeable battery supports up to 4 hours of continuous operation. Charge the device using the provided USB Type-C cable and US charger.

7.2 Durability

The Pocket2 is designed for rugged use, featuring a 2-meter drop test rating and IP54 protection against dust and splashing water, ensuring reliable performance in most work environments.

7.3 Calibration

For optimal accuracy, HIKMICRO recommends sending the camera in for calibration annually. Refer to the user manual or contact HIKMICRO support for calibration services.

8. Troubleshooting & Applications

8.1 Water Leak Detection

Thermal imaging is an effective non-destructive method for detecting water leaks by identifying temperature differences caused by moisture. Areas affected by moisture often appear cooler (blue) on the thermal camera's screen, while hot water leaks will show as warmer (red) areas.

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Video 8.1: Water Leak Detection Educational Video. This video explains how thermal imaging can be used to detect water leaks.

9. Specifications

Feature	Value
IR Resolution	256x192 pixels
Visual Camera	8MP
Frame Rate	25 Hz
Temperature Range	-4°F to 752°F (-20°C to 400°C)
Thermal Sensitivity (NETD)	<0.04°C (<40 mK)
Display	3.5" Touch Screen
Storage	16GB eMMC (approx. 60,000 images / 10h video)
Battery Life	Up to 4 hours continuous operation
Drop Test	2 meters
IP Rating	IP54
Connectivity	Wi-Fi, USB Type-C
Product Dimensions	5.51 x 2.76 x 1.06 inches
Weight	12.35 ounces

10. Warranty & Support

HIKMICRO provides comprehensive warranty coverage for your Pocket2 Thermal Camera:

- **Battery:** 2 Years
- **Entire Device:** 3 Years

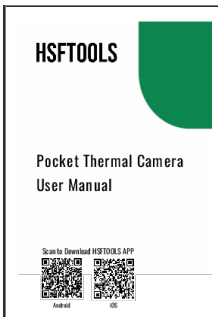
- **Sensor:** 10 Years

Lifetime firmware updates and technical support are included. For further assistance, please refer to the official user manual or contact HIKMICRO support.

Official User Manual (PDF): Download Here

Related Documents - Pocket 2

	HIKMICRO Pocket Series Thermal Camera User Manual User manual for the HIKMICRO Pocket Series thermal camera. Covers safety, operation, settings, temperature measurement, image/video capture, connectivity, maintenance, and FAQs for accurate thermal imaging and analysis.
	HIKMICRO E03 Pocket Thermal Camera User Manual User manual for the HIKMICRO E03 Pocket Thermal Camera, detailing its features, operation, and software integration.
	ACEGMET TR120E Handheld Infrared Thermal Imager User Manual User manual for the ACEGMET TR120E Handheld Infrared Thermal Imager, covering specifications, structure, operation, settings, and safety instructions.
	HIKMICRO E03 Pocket Thermal Camera Quick Start Guide Get started quickly with the HIKMICRO E03 Pocket Thermal Camera. This guide covers setup, operation, image settings, temperature measurement, and maintenance.
	HIKMICRO Thermal Image Scope User Manual Comprehensive user manual for the HIKMICRO Thermal Image Scope, detailing features, operation, maintenance, and troubleshooting. Learn how to use distance measurement, hot tracking, reticle correction, and connect to the HIKMICRO Sight App.



[HSFTOOLS Pocket Thermal Camera User Manual]

This user manual provides comprehensive guidance for the HSFTOOLS Pocket Thermal Camera, covering setup, operation, temperature measurement, image capture, device connections, system settings, and maintenance. Learn to effectively use the device for building inspection, HVAC, and electrical/mechanical equipment maintenance.

Documents - HIKMICRO – Pocket 2

[pdf] User Manual

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Handheld Thermography Camera Pocket Series User Manual**Pocket 2** Manual for CCF Camera Borrowers Handheld Thermography Camera User Manual Contents Chapter 1
Overview.....1
1.1 Device Descr...

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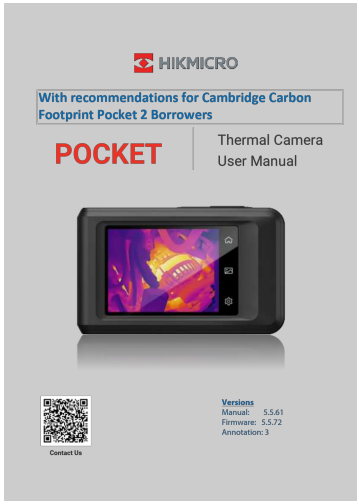

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With recommendations for Cambridge Carbon Footprint **Pocket 2** Borrowers POCKET Thermal Camera User Manual Contact Us Versions Manual: 5.5.61 Firmware: 5.5.72 Annotation: 3 Pocket Series User Manual Safety Instruction SAFETY INSTRUCTION Technical Support The https://www.hikmicrotech.com/en/co...

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[pdf] User Manual

UD30268B Pocket Series UM V5 5 29 it IT 20221011 Manuale utente HIKMICRO Pocket2 256 x 192 IR risoluzione termocamera con 8MP fotocamera visiva 25 Hz Wi Fi 3 Touch Screen Thermal Imager IP54 4 °F ~ 752 Amazon Commercio Industria e Scienza A1 XT5ZqppL m media amazon images I |||

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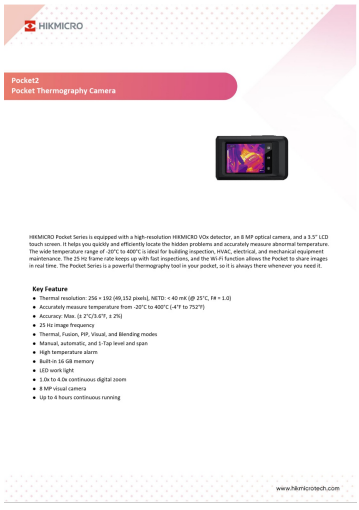

[pdf] Specifications Datasheet

Pocket2 Datasheet V5 5 45 en US 20230424 HIKMICRO Pocket 2 Thermography Camera mme ae dl 2023 06 |||

Pocket2 Pocket Thermography Camera HIKMICRO Pocket Series is equipped with a high-resolution HIKMICRO VOx detector, an 8 MP optical camera, and a 3.5 LCD touch screen. It helps you quickly and efficiently locate the hidden problems and accurately measure abnormal temperature. The wide temperature r...

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[pdf] Catalog

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PCB Thermal Camera Kit HIKMICRO Mini2 V2 camera !!Offer!! Flyer editable 20231215 deutsch batronix files 10 Allgemein |||

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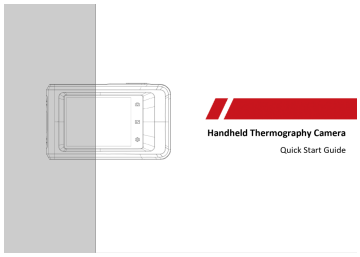

HikMicro Pocket 2 Handheld Thermography Camera Quick Start Guide

A quick start guide for the HikMicro Pocket 2 handheld thermography camera, covering device components, temperature measurement, software connection, image adjustment, legal information, and safety instructions.

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[pdf] User Manual Instructions

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Camra thermographique portable **Pocket 2** de HIKMICRO Manuel d utilisation Manuel d utilisation de la **Pocket 2** Informations lgales Lisez soigneusement toutes les informations et instructions de ce document avant d utiliser l appareil et conservez-le pour toute rfrence ultrieure. Pour plus d informat...

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instrument news NYHETER ERBJUDANDEN FRN ELMAINSTRUMENTS #1 18:E RGNGEN MARS 2023 Elfack 2023 9-1 ... onen kan man hitta problemomrden innan de orsakar skador eller avbrott i strmfrsrjningen. HIKMICRO **POCKET 2** TERMISK FICKKAMERA 6.495:- 256x192 pixlar, -20-400C E-NUMMER. 4202879 PRIS SEK HIKMI...

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PocketE Cmara Termogrfica Porttil HIKMICRO Pocket Series est equipado con un detector HIKMICRO VOx de alta resolucin, una lente ptica de 0.3 MP y una pantalla tctil LCD de 3,5 . Le ayuda a localizar rpidamente y eficientemente los problemas ocultos y medir con precisin las temperaturas de las fallas...

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