HIKMICRO D01

HIKMICRO D01 Thermal Imager Instruction Manual

Model: D01

INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your HIKMICRO D01 Thermal Imager. Please read this manual thoroughly before operating the device and keep it for future reference. The HIKMICRO D01 is designed for various applications, including home inspections, electrical fault detection, and temperature monitoring, featuring SuperScene smart scene recognition and SuperIR enhanced resolution for clear and accurate thermal imaging.
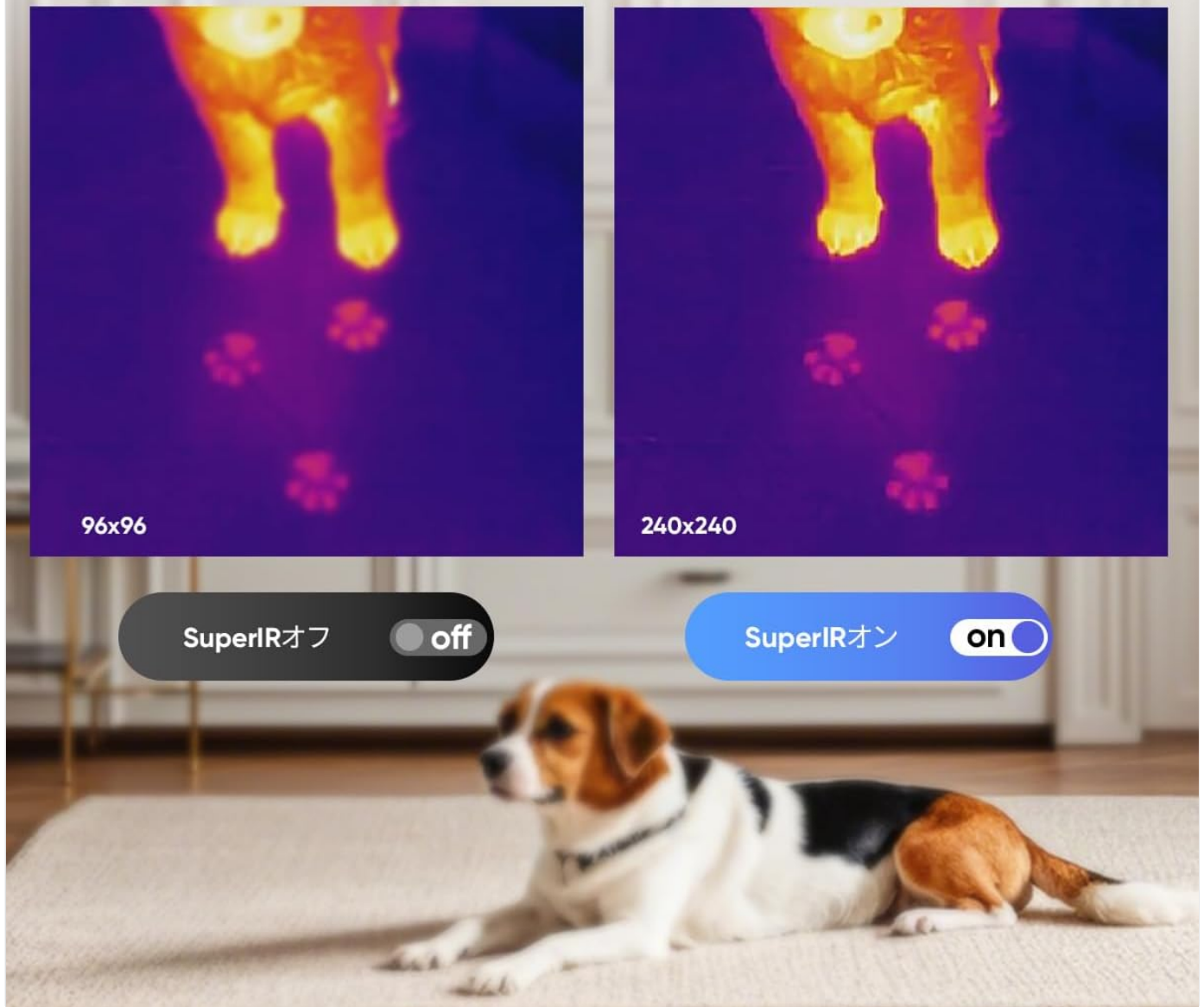
Figure 1: HIKMICRO D01 Thermal Imager

1. SETUP

1.1 Unboxing and Package Contents

Carefully unpack your HIKMICRO D01 Thermal Imager and verify all contents. The standard package includes:

- HIKMICRO D01 Thermal Imager (with wrist strap)
- USB-A to USB-C Cable

- Quick Start Guide
- Calibration Certificate

シームレスなファイル転送

撮った画像・動画はPCへサッと転送。すぐに共有や
分析ができます。

Figure 2: Included items with the HIKMICRO D01 Thermal Imager.

1.2 Charging the Device

Before first use, fully charge the device using the provided USB-A to USB-C cable and a compatible 5VDC/2A (10W) AC adapter (not included). The device features a 3350mAh battery, providing up to 11 hours of continuous operation.

自動スケジュール撮影

爬虫類ケージの昼夜の温度変化を定時で撮影・チェック。
過熱や冷えすぎのストレスを予防しやすくなります

Figure 3: The HIKMICRO D01 features a long-lasting 3350mAh battery.

1.3 Power On/Off and Initial Language Setting

To power on the device, press and hold the power button. Upon first startup, the menu may be in English. Navigate to the settings to change the language to Japanese or your preferred language.

Video 1: Demonstrates how to use the shortcut keys for quick access to settings and functions, including power on/off and menu navigation.

2. OPERATING INSTRUCTIONS

2.1 Basic Operation and Button Design

The D01 features an intuitive button design for ease of use. You can immediately operate functions such as power on, menu navigation, photo/video capture, and color palette switching without extensive learning.

- **Power Button:** Long press to power on/off.
- **Trigger Button:** Short press to capture a still image. Long press to record video.
- **Navigation Buttons:** Use the up/down/left/right buttons to navigate menus and adjust settings.
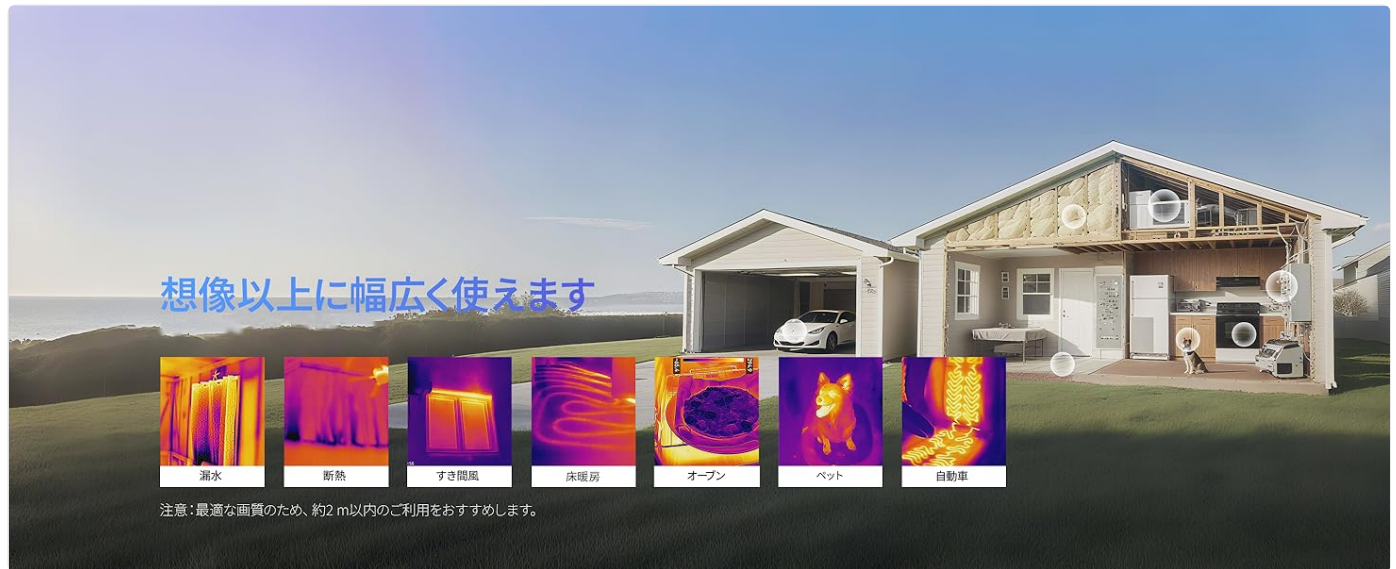- **Return Button:** Go back to the previous screen or exit a menu.

Figure 4: The D01's intuitive button layout for easy operation.

2.2 SuperScene Smart Scene Recognition

The HIKMICRO D01 incorporates proprietary SuperScene technology for smart scene recognition. This feature automatically detects common household issues like water leaks or insulation gaps within seconds, making inspections simple even for beginners.

Figure 5: SuperScene technology automatically identifies potential issues like water leaks and insulation gaps.

2.3 SuperIR Enhanced Resolution

Utilizing HIKMICRO's SuperIR image enhancement algorithm, the D01 upgrades the thermal image resolution from 96x96 to 240x240 pixels in live view, revealing finer details for more precise inspections.
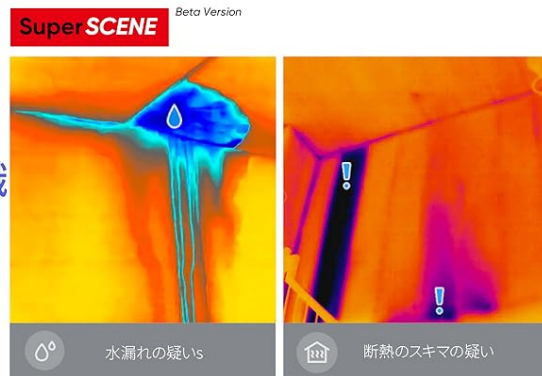
Figure 6: Comparison of 96x96 vs 240x240 resolution with SuperIR enhancement.

2.4 Temperature Measurement and Alarms

The D01 offers accurate temperature measurements with a range of -20°C to 400°C (-4°F to 752°F) and an accuracy of ±3.6°F. It features automatic tracking of hot, cold, and center spots, instantly displaying key temperature points. You can also set high and low-temperature alarms to receive immediate notifications when thresholds are exceeded.

Figure 7: Instant temperature display with automatic hot, cold, and center spot tracking.

Video 2: Guide on how to set high and low temperature alarms on the HIKMICRO D01.

2.5 Adjusting Measurement Settings

Improve measurement accuracy by adjusting emissivity and distance settings. The device supports various material emissivity values and distance ranges.

同梱物

- パッケージボックス
- D01 本体 (リストストラップ付き)
- USB-C to USB-Aケーブル
- クイックスタートガイド

Figure 8: Table showing common material emissivity values and distance settings for accurate measurements.

2.6 Wide Field of View and Color Palettes

The D01 features a 50°x50° wide field of view, allowing you to capture more thermal information at a glance. Choose from 5 different color palettes to optimize visualization for various scenarios.

50° × 50°の広視野角

ひと目でより多くの熱情報を捉えます。
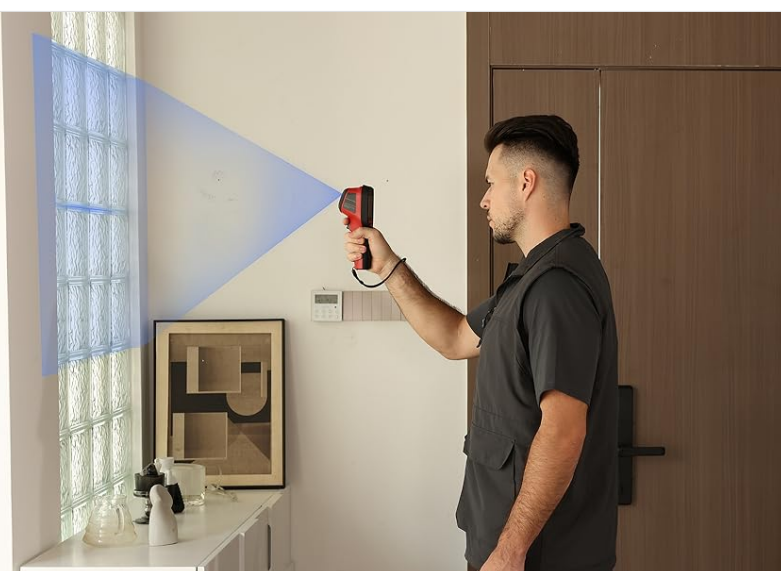
注意：長距離での最適画質のため、2 m以内での使用をおすすめします。

Figure 9: The 50°x50° wide field of view helps capture extensive thermal data.

2.7 Automatic Scheduled Thermal Imaging

Set up the D01 to automatically capture thermal images at scheduled intervals. This is particularly useful for monitoring temperature changes over time, such as in reptile enclosures, to prevent overheating or hypothermia stress.

3350mAhバッテリーで
最長約11時間

頻繁な充電なしで、
1日の点検をしっかりサポート。

3350
mAh

自動電源オフ
10／20／30／40／50／60分

自動スリープ
10／20／30／40／50／60分

Figure 10: The D01 can be mounted on a tripod for automatic scheduled thermal imaging.

3. Maintenance

3.1 Data Storage and Transfer

The D01 has 4GB of internal storage, capable of storing over 30,000 thermal images or 14 hours of video. Easily transfer

captured images and videos to your PC for analysis and sharing using the provided USB-C to USB-A cable.

5 種類のカラーパレットで
柔軟に対応

シーンに合わせて5つのカラーパレットを切り替え、
見え方を最適化。

White Hot　Black Hot　Rainbow　Ironbow　Blue Yellow

Figure 11: The D01's 4GB internal storage for extensive image and video capture.

3350mAh
バッテリーで最長約11時間

こまめな充電は不要。1日のチェックをしっかりサポート。

自動電源オフ
10／20／30／40／50／60 分

自動スリープ
10／20／30／40／50／60 分

Figure 12: Transferring data from the D01 to a laptop for analysis.

3.2 Durability and Environmental Protection

The D01 is designed for durability with an IP54 rating, providing protection against dust and splashes. This ensures reliable performance even in challenging field conditions.

写真・動画を4GBに保存

30,000枚以上の熱画像、または14時間以上の動画を保存
可能（内蔵4GB）で、点検を中断せず記録。

30,000+ 熱画像

14+ Hours 動画録画

注：システム領域により実際に使用可能な容量はわずかに少なくなります。

Figure 13: The D01's robust design with IP54 dust and splash resistance.

4. TROUBLESHOOTING

4.1 Common Issues

If you encounter any issues with your HIKMICRO D01, please refer to the detailed PDF manual available via QR code (mentioned in reviews) or contact customer support. Common issues may include:

- Device not powering on: Ensure the battery is charged.
- Inaccurate readings: Verify emissivity and distance settings are correct for the target material.
- Difficulty transferring files: Ensure the correct USB cable (USB-A to USB-C) is used and the device is properly connected to the PC.

4.2 Advanced Thermal Analysis Software

For in-depth analysis of thermal images and videos, HIKMICRO provides 'Analyzer' software for Windows. This software supports image analysis, real-time monitoring, 3D plotting, and report generation, aiding in efficient inspections and rapid decision-making.

測定設定の調整

放射率・距離・温度範囲を調整して、測定精度をアップ。
より信頼できる点検結果につながります。

材質	放射率
PCB	0.91
セメントコンクリート	0.95
セラミックス	0.92
ペイント	0.93
木材	0.85
ゴム	0.95

距離設定	
カスタム	0.1–600 m
近距離	< 1m
中距離	1–3 m
遠距離	> 3 m

温度レンジ
-20℃～150℃
100℃～400℃
自動切替

一般的な材質の放射率リファレンス

Figure 14: Using HIKMICRO Analyzer software for advanced thermal image analysis on a laptop.

5. SPECIFICATIONS

Feature	Specification
Brand	HIKMICRO
Model Name	D01
Product Model Number	D01
Photo Sensor Technology	CMOS
Video Capture Resolution	4K (3840 x 2160)
Flash Memory Type	Built-in Flash Memory (4GB)
Video Capture Format	MP4
Special Features	SuperIR Resolution, SuperScene Smart Scene Recognition, Long Battery Life
Lens Configuration	Zoom
Included Components	Wrist strap, USB cable, Calibration Certificate, Quick Start Guide
Battery Included	Yes (3350mAh internal)
Package Size	25 x 15 x 9.9 cm; 580 g
Measurement Accuracy	±3.6°F
Measurement Range	-20°C to 400°C (-4°F to 752°F)
IP Rating	IP54

6. WARRANTY AND SUPPORT

6.1 Warranty Information

The HIKMICRO D01 Thermal Imager comes with a comprehensive warranty:

- **Main Unit:** 1 Year
- **Battery:** 2 Years
- **Sensor:** 10 Years

Lifetime firmware updates are also provided.

6.2 Customer Support

For any questions or technical assistance, please contact HIKMICRO customer support. 24-hour technical support is available. You can reach out through the store or the official website.