Technical Data

# Fluke iSee™ the Fluke iSee™ Mobile Thermal Camera – TC01A/TC01B
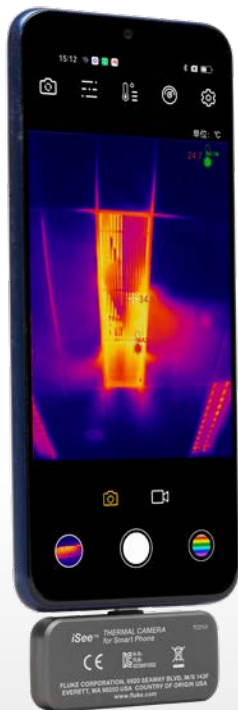
With the Fluke iSee™ Mobile Thermal Camera, temperature can be measured and thermal imaging detection can be carried out anytime and anywhere by conveniently inserting it into the Type C or Lightning interface of a smartphone. It can be widely used in electrical and mechanical inspections, inspection service, HVAC inspection, product R&D and quality control, greatly improving the inspection efficiency.

## Detailed Image Quality Comparable to Professional Thermal Cameras
- 256 x 192 pixels, detailed image quality
- Up to 550 °C/1022 °F, suitable to use in many applications
- 50 mk (0.05 °C or 0.0.09 °F) thermal sensitivity for fine differences
- ± 2 % or ± 2 °C/3.6 °F accuracy to ensure reliable results
- Customize image view with more than 10 standard or custom color palettes

## Powerful Full Temperature Range Analysis
- Powerful full temperature range analysis
- Never miss any detail with real-time high and low temperature capture
- Adjustable emissivity to apply with different materials
- Comprehensive temperature analysis for spot, line and area, supported with professional thermal imaging app
- Real-time temperature alarm for timely response of abnormal condition
- Automatic time-lapse capture mode, for unattended operation
- Infrared and visible image comparison for locating, comparing and archiving

## Real-Time Image Sharing for Fast and Easy Communication
- Easy image and video management through real-time communication
- Easy to add image annotation for smooth communication
- Automatically generate infrared inspection reports, easy for reporting, archiving and sharing (TC01B only)

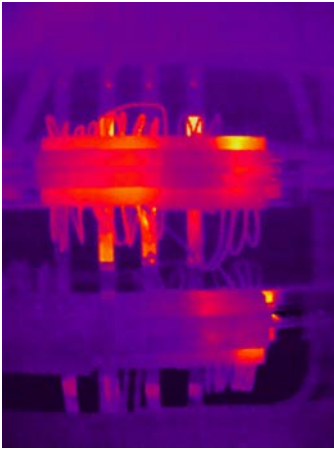## Small and Portable, Takes Only a Second to Get Started
- Compact design as light as 22 g
- The iSee™ is made of high quality specially treated aluminum material with laser etched surface
- Durable. Up to 1 meter drop test, IP54 ingress protection
- Optimized Fluke iSee™ application interfaces and menus, to enhance user experience with easy to access functions

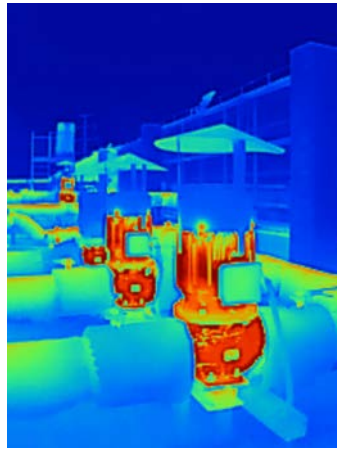## Suitable for Various Models, More Reliable
- The TC01B is equipped with the Lightning interface, compatible with iPhone and iPad*. it fully supports iOS with the Apple MFI Certification obtained.
- The TC01A with the Type C interface is for Android* and HarmonyOS

*Android™ is a registered trademark of Google, Inc. iPhone and iPad are trademarks registered by Apple Inc. in the United States and other countries and regions.

**KEY FEATURES**

- 256 x 192 pixels, detailed image quality

- Up to 550 °C/1022 °F, suitable to use in many applications

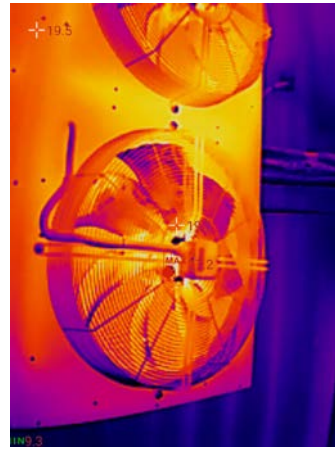- ± 2 % or ± 2 °C/3.6 °F accuracy, reliable and stable

## Fluke iSee™ application scenarios
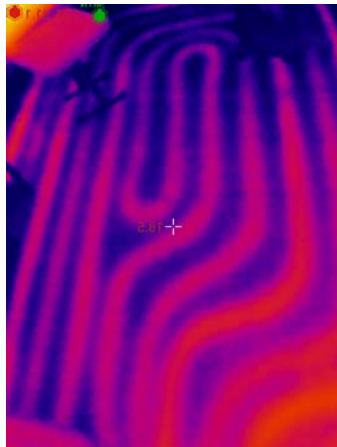


Electrical cabinet
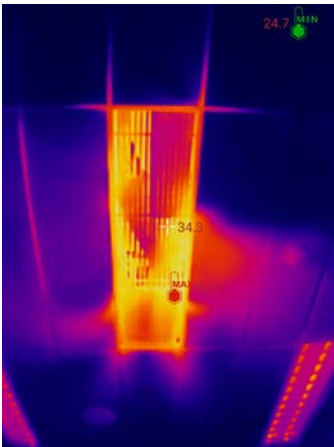


Motor


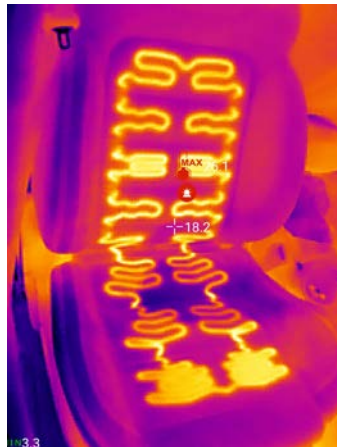
Fan



Circuit boards



Floor heating



Outdoor environment
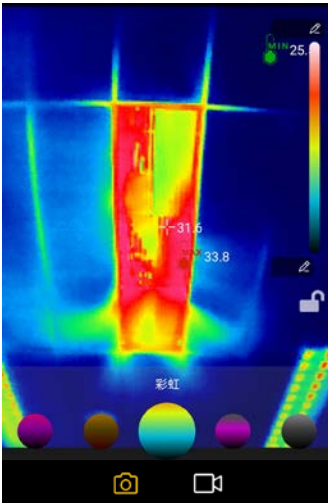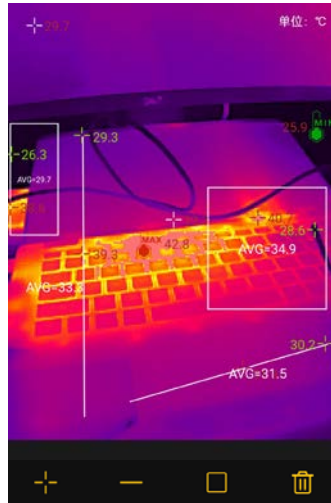


Air conditioner vent



Heated car seats



Electric switches
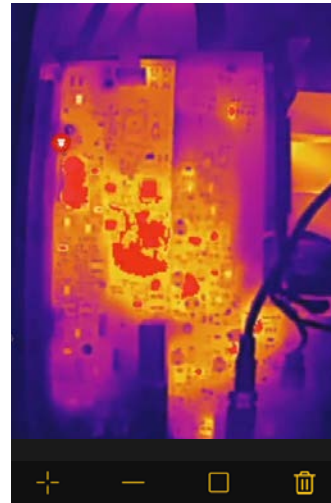
 **iS** Fluke iSee™ APP icon

**Integrated key functions of a professional thermal camera: shooting, measurement, analysis and sharing.**
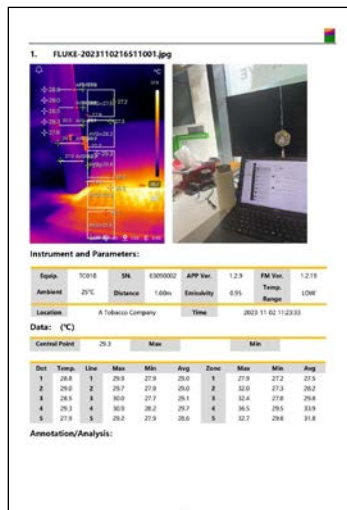


Palette choices



Temperature analysis for spot, line, and area



Over-temperature area alarm

**Up to 9 images can be selected to generate a professional report with one touch (tc01b only).**
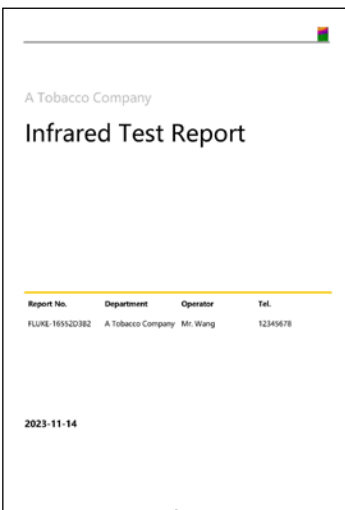


### To Download the Fluke iSee™ Mobile Thermal Camera app



For Android devices, please scan the QR code above to download the Fluke iSee™ mobile thermal camera app



For Apple devices, go to "APP Store" and search for "Fluke iSee"to download the Fluke iSee™ mobile thermal camera app

\* The TC01A supports Android™ 6.0 / HarmonyOS 2.0 or later and requires smartphones with OTG function enabled; the TC01B supports iOS 11.0 or later.

\* The functions of the Android and iOS app versions differ slightly, but the core application remains the same. Please refer to each app for guidance.

## Specifications

| | TC01A | TC01B |
|---|---|---|
| **Performance Specifications** | | |
| IR resolution | 256 x 192 | |
| Pixel size | 12 µm | |
| Temperature range | -10 °C to 550 °C/14 °F to 1022 °F | -20 °C to 550 °C/-4 °F to 1022 °F |
| Temperature accuracy | ± 2 % of rdg or ± 2 °C/3.6 °F, whichever is greater (@ 23 °C ± 5 °C/73.4 °F ± 9 °F ambient temperature) | |
| Temperature measurement distance | 0.25 m to 5 m (* -20 °C/-4 °F to 10 °C/50 °F, only for 0.25 m to 3 m) | |
| Frame rate | 9 Hz or 25 Hz models | 25 Hz |
| Warm-up time | 1 minute | |
| Focal length | Fixed focal length: 3.2 mm | |
| Shutter mode | Internal | |
| Thermal sensitivity (NETD) | 50 mK | |
| Spectral range | 8 to 14 µm | |
| Field of view (H x V) | 56° x 42° | |
| Spatial resolution | 3.81 mrad | |
| **General Specifications** | | |
| USB interface | Type-C | Lightning |
| Operating temperature | 0 °C to 40 °C/32 °F to 104 °F | |
| Storage temperature | -30 °C to 60 °C/–22 °F to 140 °F | |
| Operating humidity | 10 % to 90 % RH, non-condensing | |
| Power consumption | 350 mW (Typical) | 200 mW (Typical) |
| Drop test | 1 m/3.3 ft | |
| Ingress protection | IEC 60529: IP54 (with the protective cover for Type C) | IEC 60529: IP56 |
| Operating altitude | 2 000 m/6 562 ft | |
| Storage altitude | 12 000 m/39 370 ft | |
| Dimensions (L x W x H) | 60 x 33.5 x 11.2 mm/2.36 x 1.32 x 0.44 in | |
| Weight | 22 g/0.78 oz | |
| **EMC Environment** | | |
| International | IEC 61326-1: Electromagnetic environment for portable equipments CISPR 11: Group 1, Class A | |

Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself.
Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances.
Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.

| | |
|---|---|
| Korea (KCC) | Class A Equipment (Industrial Broadcasting and Communication Equipment) |

Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.

| | |
|---|---|
| United States (FCC) | 47 CFR 15 Subpart B. This product is considered an exempt device per clause 15.103. |
| Warranty | 2 years |

## Ordering Information

FLUKE TC01A/TC01B Mobile Thermal Camera

## Standard Accessories

- The Fluke TC01A/TC01B Thermal Camera
- Packaging box
- User manual

**Fluke.** Keeping your world up and running.™

**fluke.com**

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Fluke](#):

[FLUKE-TC01B 25HZ](#)  [FLUKE-TC01A 9HZ](#)  [FLUKE-TC01A 25HZ](#)