Technical Data

Fluke iSee™ the Fluke iSee™ Mobile Thermal Camera – TC01A/TC01B/TC01C

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

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) 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

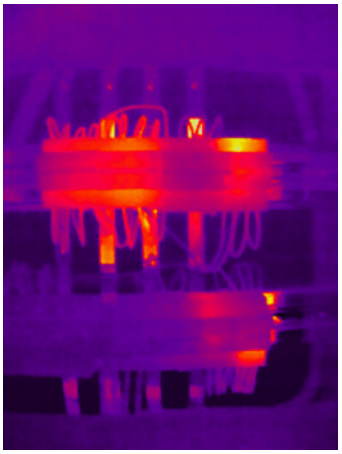
- Compact design as light as 22 g (0.78 oz)
- The iSee™ is made of high quality specially treated aluminum material with laser etched surface
- Up to 1-meter drop test, IP56 (TC01B/TC01C)/IP54 (TC01A) ingress protection for Fluke durability
- Optimized Fluke iSee™ application interfaces and menus, to enhance user experience with easy to access functions

Suitable for Various Models, More Reliable

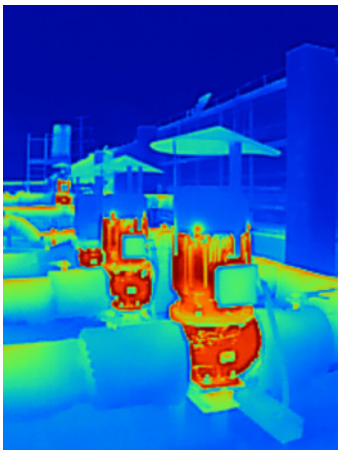
- The TC01B features a Lightning interface, while the TC01C has a Type-C interface. Both devices are compatible with iPhone and iPad*, fully supporting iOS and have obtained Apple MFI Certification.
- The TC01A with the Type-C interface is for Android* and HarmonyOS

*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.

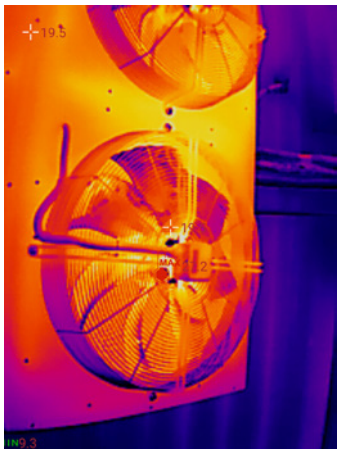
Fluke iSee™ application scenarios



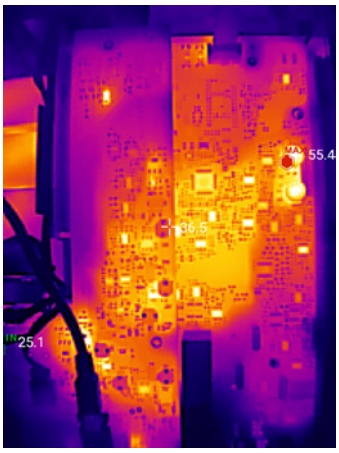
Electrical cabinets



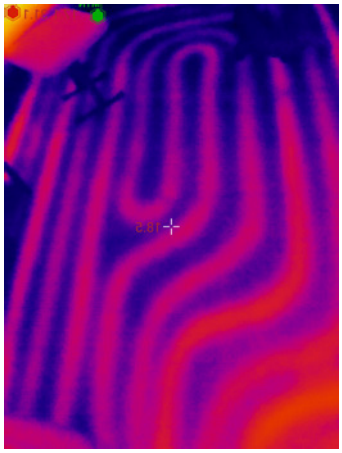
Motors



Fans

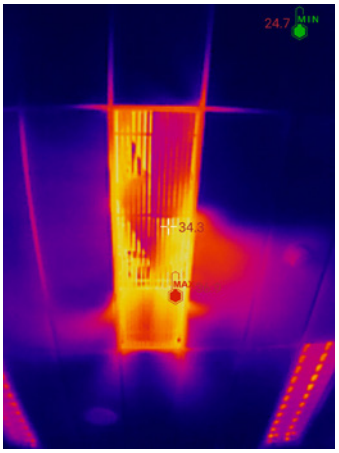


Circuit boards

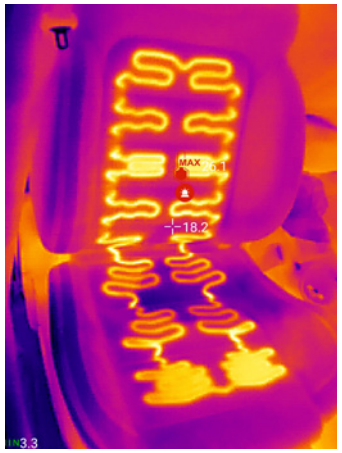


Floor heating

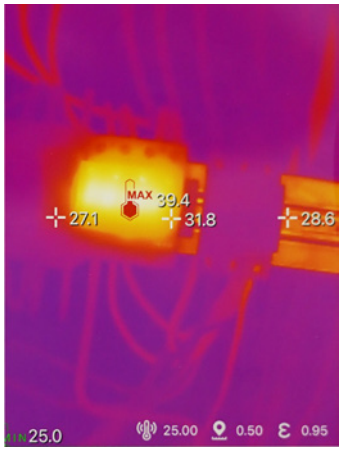
Outdoor environment



Air conditioner vents



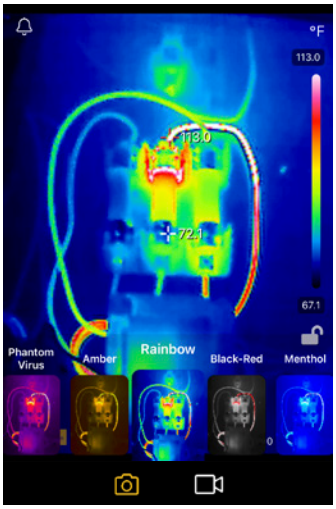
Heated car seats



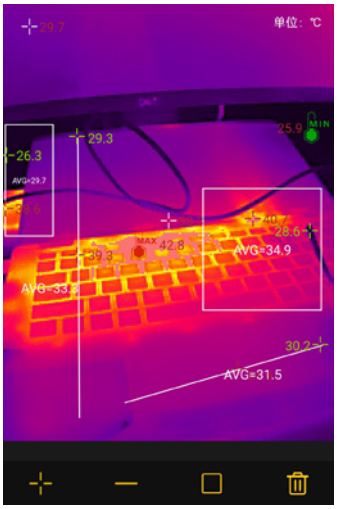
Electric switches

Fluke iSee™ APP icon

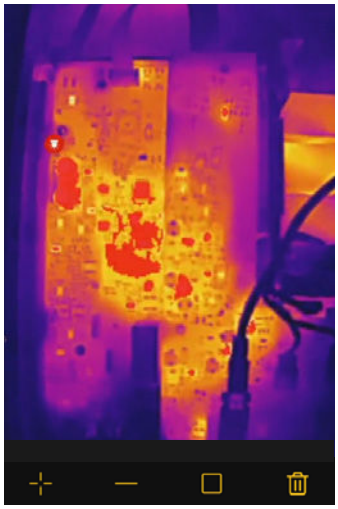
Integrated key functions of a professional thermal camera: shooting, measurement, analysis and sharing.



Palette choices

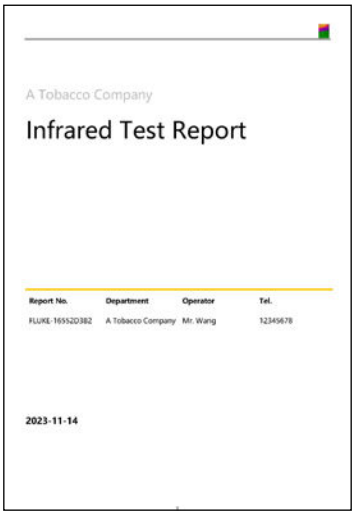


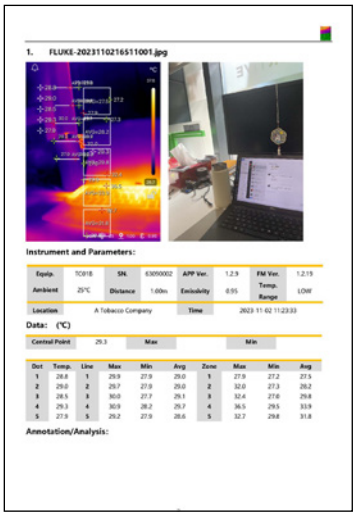
Temperature analysis for spot, line, and area



Over-temperature area alarm

Up to 9 images can be selected to generate a professional report with one touch.





To Download the Fluke iSee™ Mobile Thermal Camera app

Google Play

Replace with "For Android devices, download the Fluke iSee™ mobile thermal camera app from the Google Play Store.

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/TC01C 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	TC01C
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 % 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	Type-C
Compatible system	Android and HarmonyOS	iOS	
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/TC01C Mobile Thermal Camera

Standard Accessories

- The Fluke TC01A/TC01B/ TC01C Thermal Camera
- Packaging box
- User manual

Fluke. Keeping your world up and running.™

fluke.com