

Technical Data

Fluke iSee™ Mobile Thermal Camera - TC01A/TC01B/TC01C



Bring the iSee™

See more...

Find more...

- 256 x 192 pixels, detailed image quality
- Up to 550 °C, covering wide applications
- $\pm 2\%$ or $\pm 2\text{ °C}$ accuracy to ensure reliable results
- 25 Hz frame rate, smooth video without lag

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, covering wide applications
- 50 mk (0.05 °C) thermal sensitivity for fine differences
- $\pm 2\%$ or $\pm 2\text{ °C}$ accuracy to ensure reliable results
- 25 Hz frame rate, smooth video without lag
- Customize image view with more than 10 standard or custom color palettes

Powerful Full Temperature Range Analysis

- Never miss any detail with real-time high and low temperature capture
- Adjustable emissivity to apply with different materials
- Capture images and shoot videos when the temperature exceeds the limit, and capture live scenes automatically
- Comprehensive temperature analysis for 5 spots, 5 lines and 5 areas, 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

- Share and manage images and videos in real-time, for fast and efficient communication
- Easy to add image annotation for smooth communication
- Automatically generate infrared inspection reports, easy for reporting, archiving and sharing

Small and Portable, Takes Only a Second to Get Started

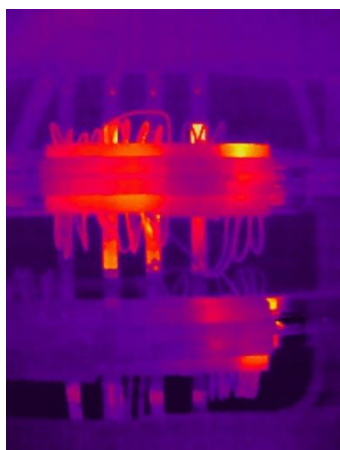
- Compact design as light as 22 g, perfect for your mobile phone size
- Each iSee™ is made of high quality specially treated aluminum material with laser etched surface
- Up to 1-meter drop test, IP56 (TC01B/TC01C)/IP54 (TC01A) ingress protection for Fluke durability
- Optimized Fluke iSee™ application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

Suitable for Various Models, More Reliable

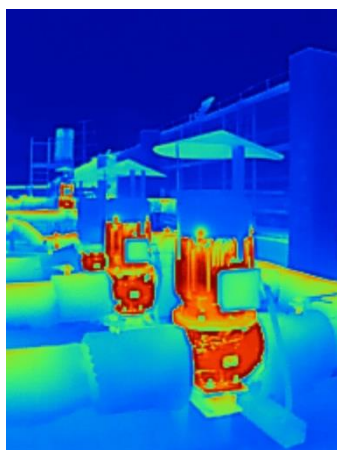
- The TC01B is equipped with the Lightning interface, the TC01C has the Type C interface, both are compatible with iPhone and iPad*, fully supporting iOS with the Apple MFI Certification obtained.
- The TC01A with the Type C interface is for Android* and HarmonyOS

*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.

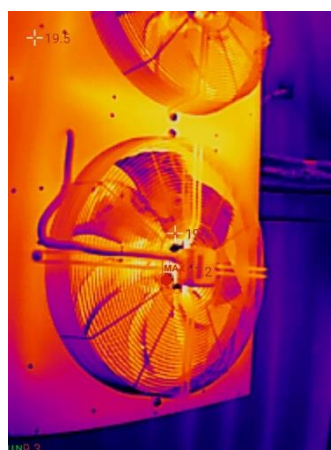
Fluke iSee™ Application Scenarios



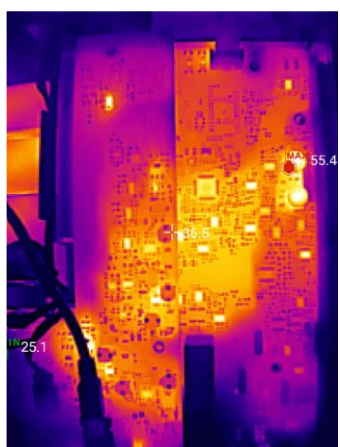
Electrical cabinet



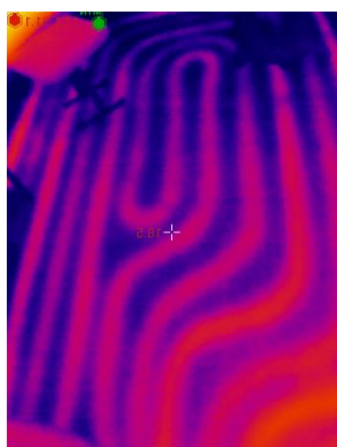
Motor



Fan



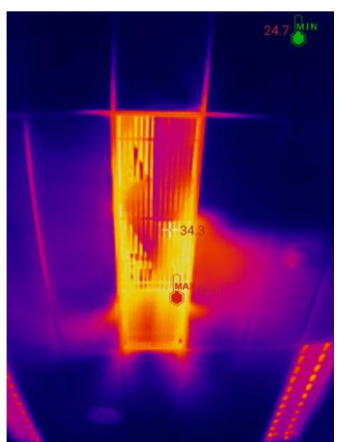
Circuit board



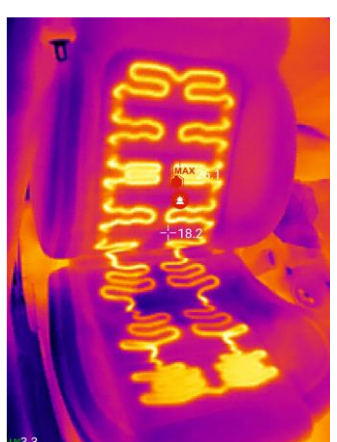
Underfloor heating



Outdoor environment



Air conditioner vent



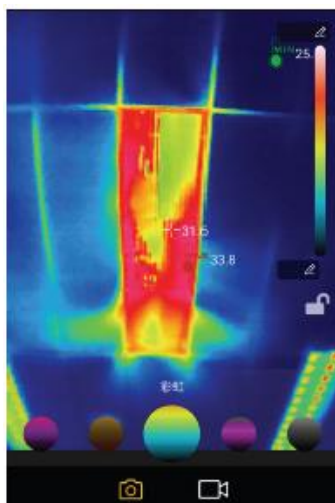
Heated car seat



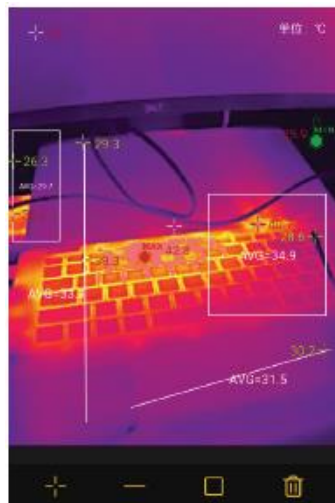
Electric switch

Fluke iSee™ APP

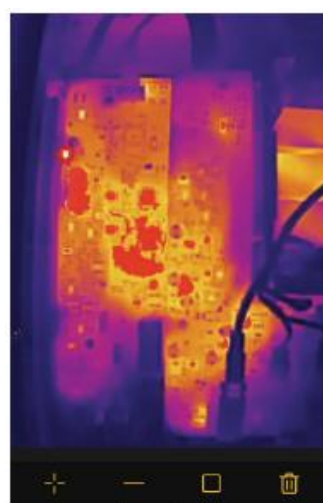
Integrated key functions of a professional thermal camera: shooting, measurement, analysis and sharing.



Custom palettes

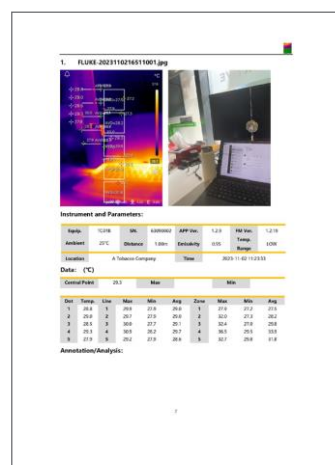
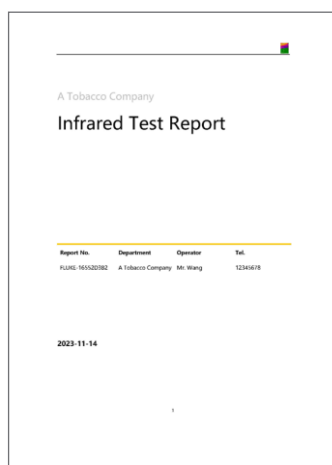


Temperature analysis for spot, line, and area



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



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/TC01C supports iOS 11.0 or later.

*The functions are slightly different on the Android and iOS version. Please refer to the actual APP.

Detailed Specifications

	TC01A	TC01B	TC01C
Specifications			
IR resolution	256 x 192		
Pixel size	12 μm		
Temperature range	-10 °C to 550 °C	-20 °C to 550 °C	
Temperature accuracy	± 2% of rdg or ± 2 °C, whichever is greater (@ 23 °C ± 5 °C ambient temperature)		
Temperature measurement distance	0.25 m to 5 m (* -20 °C to 10 °C, only for 0.25 m to 3 m)		
Frame rate	25 Hz		
Warm-up time	1 minute		
Focal length	Fixed focal length:3.2 mm		
Shutter mode	Internal auto shutter		
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		
Storage temperature	-30 °C to 60 °C		
Operating humidity	10% to 90% RH, non-condensing		
Power consumption	350 mW(Typical)	200mW (Typical)	
Drop test	1 m		
Ingress protection	IEC 60529: IP54 (with the protective cover for Type C)	IEC 60529: IP56	
Operating altitude	2000 m		
Storage altitude	12 000 m		
Dimensions (Lx Wx H)	60 x 33.5 x 11.2 mm		
Weight	22 g		
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 & 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.™

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