

**Technical Data** 

# Fluke iSee<sup>™</sup> the Fluke iSee<sup>™</sup> Mobile Thermal Camera – TC01A/TC01B



#### **KEY FEATURES**

- 256 x 192 pixels, detailed image quality
- Up to 500 °C/932 °F, suitable to use in many applications
- ± 2 % or ± 2 °C/3.6 °F accuracy, reliable and stable
- 25 Hz frame rate for smooth video recording

With the Fluke iSee<sup>™</sup> 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 500 °C/932 °F, suitable to use in many applications
- 50 mk (0.05 °C or 0.09 °F) thermal sensitivity for fine differences
- $\pm 2$  % or  $\pm 2$  °C/3.6 °F accuracy to ensure reliable results
- 25 Hz frame rate for smooth video recording
- 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<sup>™</sup> application interfaces and menus, to enhance user experience with easy to access functions

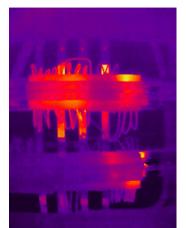
#### Suitable for Various Models, More Reliable

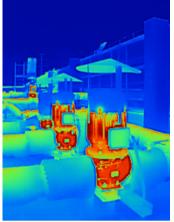
- The TC01B is equipped with the Lightning interface, compatible with iPhone and iPad\*. it fully supports iOS with the Apple MFI Certification obtained.
- The TC01A with the Type C interface is for Android\* and HarmonyOS

\*Android<sup>™</sup> 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.

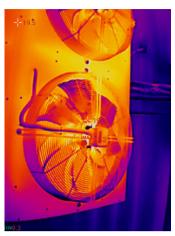


# Fluke iSee™ application scenarios





Motor

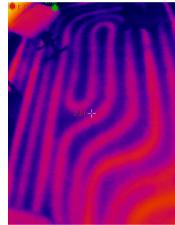


Fan



Circuit boards

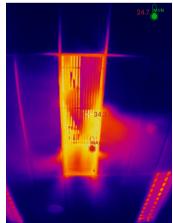
Electrical cabinet



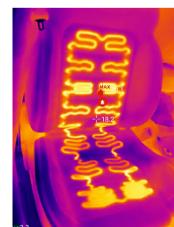
Floor heating



Outdoor environment



Air conditioner vent



Heated car seats

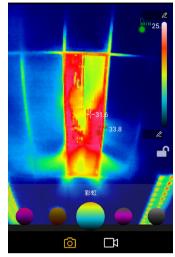


Electric switches

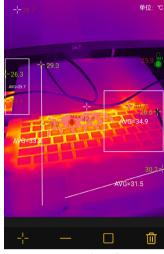


# S Fluke iSee™ APP icon

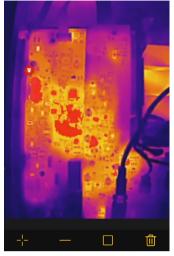
### Integrated key functions of a professional thermal camera: shooting, measurement, analysis and sharing.



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).

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## To Download the Fluke iSee<sup>™</sup> 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<sup>™</sup> 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	$\pm$ 2 % of rdg or $\pm$ 2 °C/3.6 °F, whichever is greater (@ 23 °C $\pm$ 5 °C/73.4 °F $\pm$ 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	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	3.81 mrad						
General Specifications								
USB interface	Туре-С	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	ternational IEC 61326-1: Electromagnetic environment for portable equipments CISPR 11: Group 1, Class A							
function of the equipment itself. Class A: Equipment is suitable for use in all work that supplies buildings used for dome environments due to conducted and radiat	rated and/or uses conductively-coupled radio freque establishments other than domestic and those dire estic purposes. There may be potential difficulties in ed disturbances. r use in residential environments and may not provi	ctly connected to a low-voltage power supply net- ensuring electromagnetic compatibility in other						
Korea (KCC)	CC) Class A Equipment (Industrial Broadcasting and Communication Equipment)							
	industrial electromagnetic wave equipment and th environments and not to be used in homes.	e seller or user should take notice of it. This						
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

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