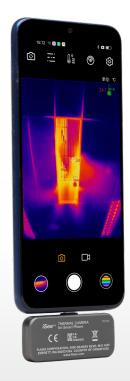


**Technical Data** 

# Fluke iSee<sup>™</sup> the Fluke iSee<sup>™</sup> 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
- $\pm$  2 % or  $\pm$  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

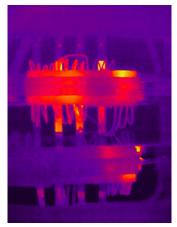
### **Suitable for Various Models, More Reliable**

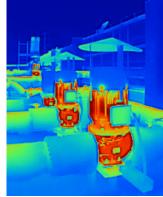
- The TC01B features a Lightning interface, while the TC01C has a Type-C interface. Both devices are compatible with iPhone and iPad\*, fully supporting iOS and have obtained Apple MFI Certification.
- The TC01A with the Type-C interface is for Android\* and HarmonyOS

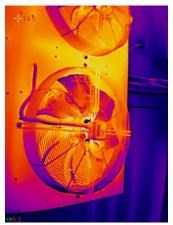
<sup>\*</sup>Android™ is a registered trademark of Google, Inc. iPhone and iPad are trademarks registered by Apple Inc. in the United States and other countries and regions.



### Fluke iSee™ application scenarios



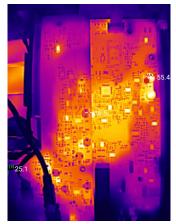


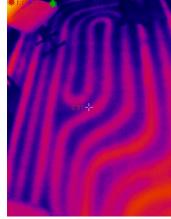


**Electrical cabinets** 

Motors

Fans



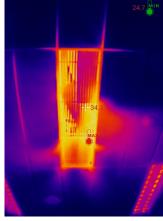




Circuit boards

Floor heating

Outdoor environment







Air conditioner vents

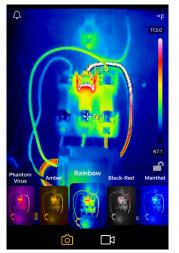
Heated car seats

Electric switches



## **IS** Fluke iSee™ APP icon

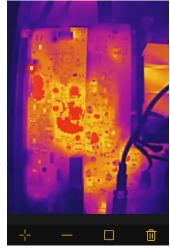
### Integrated key functions of a professional thermal camera: shooting, measurement, analysis and sharing.



Palette choices

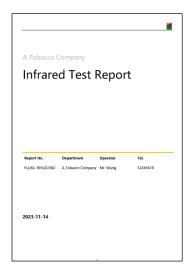


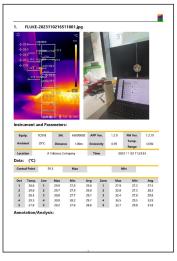
Temperature analysis for spot, line, and area



Over-temperature area alarm

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





### 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**

Performance Specifications   256 x 192		TC01A	TC01B	TC01C
Pixel size   12 μm	Performance Specifications			
Temperature range         -10 °C to 550 °C/14 °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           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           Operating humidity         10 % to 90 % RH, non-condensing         Power consumption         350 mW (Typical)         200 mW (Typical)           Drop test         1 m/3.3 ft         IEC 60529: IP56           Ingress protection         (with the protective cover for Type-C)         2 000 m/6 562 ft           Operating	IR resolution	256 x 192		
Temperature accuracy	Pixel size	12 µm		
Temperature acturacy  Temperature measurement distance  10.25 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  Focal length  Fixed focal length: 3.2 mm  Shutter mode  Thermal sensitivity (NETD)  Spectral range  Field of view (H x V)  Spatial resolution  General Specifications  USB interface  Type-C  Compatible system  Android and HarmonyOS  Operating temperature  O °C to 40 °C/32 °F to 104 °F  Storage temperature  O °C to 60 °C/-22 °F to 140 °F  Operating humidity  Time of the operation of	Temperature range	- 10°C to 550°C /-10°C to 1077°C		
tance         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           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         OS           Operating humidity         10 % to 90 % RH, non-condensing         OPerating humidity         200 mW (Typical)           Drop test         1 m/3.3 ft         IEC 60529: IP56         IEC 60529: IP56           Ingress protection         (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	Temperature accuracy			
Warm-up time1 minuteFocal lengthFixed focal length: 3.2 mmShutter modeInternalThermal sensitivity (NETD)50 mKSpectral range8 to 14 μmField of view (H x V)56° x 42°Spatial resolution3.81 mradGeneral SpecificationsUSB interfaceType-CUSB interfaceType-CLightningType-CCompatible systemAndroid and HarmonyOSiOSOperating temperature0 °C to 40 °C/32 °F to 104 °FStorage temperature-30 °C to 60 °C/-22 °F to 140 °FOperating humidity10 % to 90 % RH, non-condensingPower consumption350 mW (Typical)200 mW (Typical)Drop test1 m/3.3 ftIngress protectionIEC 60529: IP54 (with the protective cover for Type-C)IEC 60529: IP56Operating altitude2 000 m/6 562 ftStorage altitude12 000 m/39 370 ftDimensions (L x W x H)60 x 33.5 x 11.2 mm/2.36 x 1.32 x 0.44 inWeight22 g/0.78 oz	•	0.25 m to 5 m (* -20 °C/-4 °F to 10 °C/50 °F, only for 0.25 m to 3 m)		
Focal length  Shutter mode  Internal  Thermal sensitivity (NETD)  Spectral range  Field of view (H x V)  Spatial resolution  General Specifications  USB interface  Compatible system  Operating temperature  Operating humidity  Power consumption  Drop test  Ingress protection  Fixed focal length: 3.2 mm  Internal  I	Frame rate	9 Hz or 25 Hz models	Hz models 25 Hz	
Shutter mode Thermal sensitivity (NETD) Spectral range Field of view (H x V) Spatial resolution General Specifications USB interface Type-C Compatible system Android and HarmonyOS Operating temperature Storage temperature Operating humidity Operating humidity Type-C Ompatible system Android and HarmonyOS  Operating temperature  10 °C to 40 °C/32 °F to 104 °F Storage temperature 10 % to 90 % RH, non-condensing Power consumption 350 mW (Typical) Drop test  IEC 60529: IP54 (with the protective cover for Type-C)  Operating altitude  1 2 000 m/6 562 ft Storage altitude Dimensions (L x W x H)  60 x 33.5 x 11.2 mm/2.36 x 1.32 x 0.44 in Weight	Warm-up time	1 minute		
Thermal sensitivity (NETD)  Spectral range  Field of view (H x V)  Spatial resolution  General Specifications  USB interface  Compatible system  Operating temperature  Storage temperature  Operating humidity  Power consumption  Drop test  IEC 60529: IP54  (with the protective cover for Type-C)  Operating altitude  Storage altitude  Storage altitude  Storage altitude  Dimensions (L x W x H)  Storage altitude  Storage altitu	Focal length	Fixed focal length: 3.2 mm		
Spectral range8 to 14 μmField of view (H x V)56° x 42°Spatial resolution3.81 mradGeneral SpecificationsUSB interfaceType-CLightningType-CCompatible systemAndroid and HarmonyOSiOSOperating temperature0 °C to 40 °C/32 °F to 104 °FStorage temperature-30 °C to 60 °C/-22 °F to 140 °FOperating humidity10 % to 90 % RH, non-condensingPower consumption350 mW (Typical)Drop test1 m/3.3 ftIEC 60529: IP54 (with the protective cover for Type-C)Operating altitude2 000 m/6 562 ftStorage altitudeDimensions (L x W x H)60 x 33.5 x 11.2 mm/2.36 x 1.32 x 0.44 inWeight	Shutter mode	Internal		
Field of view (H x V)  Spatial resolution  General Specifications  USB interface  Type-C  Compatible system  Android and HarmonyOS  Operating temperature  Storage temperature  Operating humidity  Power consumption  Drop test  IEC 60529: IP54  (with the protective cover for Type-C)  Operating altitude  Storage altitude  Storage altitude  Storage altitude  Dimensions (L x W x H)  Storage Type-C  Lightning  Type-C  Operating to 40 °C/32 °F to 140 °F  -30 °C to 60 °C/-22 °F to 140 °F	Thermal sensitivity (NETD)	50 mK		
Spatial resolution  General Specifications  USB interface  Type-C  Compatible system  Android and HarmonyOS  Operating temperature  O °C to 40 °C/32 °F to 104 °F  Storage temperature  Operating humidity  Power consumption  Drop test  IEC 60529: IP54  (with the protective cover for Type-C)  Operating altitude  Storage altitude  Dimensions (L x W x H)  Spatial resolution  Type-C  Lightning  Type-C  Operating temperature  0 °C to 40 °C/32 °F to 104 °F  10 % to 90 % RH, non-condensing  200 mW (Typical)  10 % to 90 % RH, non-condensing  10 M to 90 W (Typical)  10 m (Typical)  20 m (Typical)  200 m (Typ	Spectral range	8 to 14 μm		
General SpecificationsUSB interfaceType-CLightningType-CCompatible systemAndroid and HarmonyOSiOSOperating temperature0 °C to 40 °C/32 °F to 104 °FStorage temperature-30 °C to 60 °C/-22 °F to 140 °FOperating humidity10 % to 90 % RH, non-condensingPower consumption350 mW (Typical)200 mW (Typical)Drop test1 m/3.3 ftIngress protectionIEC 60529: IP54 (with the protective cover for Type-C)IEC 60529: IP56Operating altitude2 000 m/6 562 ftStorage altitude12 000 m/39 370 ftDimensions (L x W x H)60 x 33.5 x 11.2 mm/2.36 x 1.32 x 0.44 inWeight22 g/0.78 oz	Field of view (H x V)	56° x 42°		
USB interface  Compatible system  Android and HarmonyOS  Operating temperature  O °C to 40 °C/32 °F to 104 °F  Storage temperature  Operating humidity  Power consumption  Drop test  IEC 60529: IP54 (with the protective cover for Type-C)  Operating altitude  Storage altitude  Dimensions (L x W x H)  Android and HarmonyOS  O °C to 40 °C/32 °F to 104 °F  10 % to 90 % RH, non-condensing  200 mW (Typical)  1 m/3.3 ft  IEC 60529: IP54 (with the protective cover for Type-C)  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	Spatial resolution	3.81 mrad		
Compatible system Operating temperature O°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 IEC 60529: IP54 (with the protective cover for Type-C)  Operating altitude Storage altitude 12 000 m/39 370 ft Dimensions (L x W x H)  Weight  Android and HarmonyOS iOS  0 °C to 40 °C/32 °F to 104 °F  I +	General Specifications			
Operating temperature  Storage temperature  -30 °C to 60 °C/-22 °F to 140 °F  Operating humidity  10 % to 90 % RH, non-condensing  Power consumption  Drop test  IEC 60529: IP54  (with the protective cover for Type-C)  Operating altitude  Storage altitude  Dimensions (L x W x H)  Veight  O °C to 40 °C/-22 °F to 140 °F  -30 °C to 60 °C/-22 °F to 140 °F  -30 °C to 60 °C/-22 °F to 140 °F  -30 °C to 40 °C/-22 °F to 140 °F  -30 °C to 40 °C/-22 °F to 140 °F  -30 °C to 60 °C/-22 °F to 140 °F  -30 °C to 40 °C/-22 °F to 140 °F  -30 °C to 40 °C/-22 °F to 140 °F  -30 °C to 40 °C/-22 °F to 140 °F  -30 °C to 40 °C/-22 °F to 140 °F  -30 °C to 40 °C/-22 °F to 140 °F  -30 °C to 40 °C/-22 °F to 140 °F  -30 °C to 40 °C/-22 °F to 140 °F  -30 °C to 40 °C/-22 °F to 140 °F  -30 °C to 40 °C/-22 °F to 140 °F  -30 °C to 40 °C/-22 °F to 140 °F  -30 °C to 60 °C/-22 °F to	USB interface	Type-C	Lightning	Type-C
Storage temperature  Operating humidity  10 % to 90 % RH, non-condensing  Power consumption  350 mW (Typical)  200 mW (Typical)  Drop test  IEC 60529: IP54 (with the protective cover for Type-C)  Operating altitude  Storage altitude  Dimensions (L x W x H)  Weight  -30 °C to 60 °C/–22 °F to 140 °F  10 % to 90 % RH, non-condensing  2000 mW (Typical)  IEC 60529: IP56  (with the protective cover over for Type-C)  2 000 m/6 562 ft  12 000 m/39 370 ft  60 x 33.5 x 11.2 mm/2.36 x 1.32 x 0.44 in  22 g/0.78 oz	Compatible system	Android and HarmonyOS	iOS	
Operating humidity10 % to 90 % RH, non-condensingPower consumption350 mW (Typical)200 mW (Typical)Drop test1 m/3.3 ftIngress protectionIEC 60529: IP54 (with the protective cover for Type-C)IEC 60529: IP56Operating altitude2 000 m/6 562 ftStorage altitude12 000 m/39 370 ftDimensions (L x W x H)60 x 33.5 x 11.2 mm/2.36 x 1.32 x 0.44 inWeight22 g/0.78 oz	Operating temperature	0 °C to 40 °C/32 °F to 104 °F		
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	Storage temperature	-30 °C to 60 °C/–22 °F to 140 °F		
Drop test         1 m/3.3 ft           Ingress protection         IEC 60529: IP54 (with the protective cover for Type-C)           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	Operating humidity	10 % to 90 % RH, non-condensing		
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	Power consumption	350 mW (Typical)	. 31	
Ingress protection         (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	Drop test			
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	Ingress protection	(with the protective cover	IEC 60529: IP56	
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	Operating altitude	2 000 m/6 562 ft		
<b>Weight</b> 22 g/0.78 oz	Storage altitude	12 000 m/39 370 ft		
3	Dimensions (L x W x H)	60 x 33.5 x 11.2 mm/2.36 x 1.32 x 0.44 in		
EMC Environment	Weight		22 g/0.78 oz	

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

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