

# Fluke TC01A/TC01B

Thermal Camera for Smart Device  
*Instructions*



2-Year Limited Warranty. See the Users Manual for the full warranty.

## Contact Fluke

Go to [www.fluke.com](http://www.fluke.com) to register your Product, read the Users Manual, and find more information.

Fluke Corporation operates worldwide. For local contact information, go to our website: [www.fluke.com](http://www.fluke.com).

### ⚠ Warning

- Carefully read all instructions.
- Read all safety information before you use the Product.
- Do not alter the Product and use only as specified, or the protection supplied by the Product can be compromised.
- Do not use the Product if it operates incorrectly.
- Do not use the Product around explosive gas, vapor, or in damp or wet environments.
- See emissivity information for actual temperatures. Reflective objects result in lower than actual temperature measurements. These objects pose a burn hazard.
- Avoid external force subjected to the connector.
- The product cannot be used for any medical measurement.
- To avoid damage to the infrared sensor, do not aim the product to the sun or other objects whose temperature is higher than the measuring range.
- Do not forcibly plug or trying to disassemble the product.
- Do not use any ammonia or detergent containing ammonia to clean the lens, This may cause permanent damage to the lens.

### Symbols

Symbol	Description
	WARNING. RISK OF DANGER.
	Consult user documentation.
	Conforms to European Union directives.
	This Product has electronic printed circuit boards. Dispose of the Product in a professional and environmentally appropriate manner. Delete personal data on the Product before disposal. Remove batteries that are not integrated into the electrical system before disposal and dispose of batteries separately. If this Product has an integral battery, put the entire Product in the electrical waste. See Contact Fluke for more information.

### Specifications

#### General Specifications

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
Ingress Protection (IP) Rating .....	<b>TC01A:</b> IEC 60529: IP54 (connector covered) <b>TC01B:</b> IEC 60529: IP56
Operating Altitude .....	2000 m
Storage Altitude .....	12000 m
EMC.....	IEC 61326-1: Portable Electromagnetic Environment 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 Broadcast & Communications 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.*

USA (FCC).....47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103.

#### Key Performance

Image Resolution.....	256 x 192
Measuring Range .....	<b>TC01A:</b> -10 °C to 550 °C (14 °F to 1022 °F) <b>TC01B:</b> -20 °C to 550 °C (-4 °F to 1022 °F)
Accuracy.....	± 2% of reading / ± 2 °C (± 3.6 °F), whichever is greater (at 23 ± 5 °C, 73 ± 9 °F ambient)
Distance.....	0.25 m to 5 m <sup>(1)</sup>
Frame Rate.....	25 Hz / 9Hz
<sup>(1)</sup> -20 °C to 10 °C (-4 °F to 50 °F) applicable only for 0.25 m to 3 m.	

**1**

**2**

**3** **Android/HarmonyOS**

**4**

**Type C (TC01A)  
Lightning (TC01B)**

**5**

**6**