

Ti300U, Ti400U, Ti401U, Ti480U

Thermal Imagers

Safety Information



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

To register your product, visit www.fluke.com.

To view, print, or download the latest manual supplement, visit cn.fluke.com (Chinese) or www.fluke.com (English).

A **Warning** identifies hazardous conditions and procedures that are dangerous to the user.

PN 5544221 (English)

December 2022, Rev.1, 7/23

© 2022-2023 Fluke Corporation. All rights reserved.

Specifications are subject to change without notice.

All product names are trademarks of their respective companies.

Fluke Corporation
P.O. Box 9090
Everett, WA 98206-9090
U.S.A.

 Warning

To prevent possible electrical shock, fire, or personal injury and for safe operation of the Product:

- Read all safety information before you use the Product.
- Carefully read all instructions.
- Do not alter the Product and use only as specified, or the protection supplied by the Product can be compromised.
- Replace the batteries when the low battery indicator shows to prevent incorrect measurements.
- Do not use the Product if it operates incorrectly.
- Do not use the Product if it is altered or damaged.
- Disable the Product if it is damaged.
- See emissivity information for actual temperatures. Reflective objects result in lower than actual temperature measurements. These objects pose a burn hazard.
- Do not put battery cells and battery packs near heat or fire. Do not put in sunlight.
- Do not disassemble or crush battery cells and battery packs.
- Remove batteries to prevent battery leakage and damage to the Product if it is not used for an extended period.
- Connect the battery charger to the mains power outlet before the charger.
- Use only Fluke approved power adapters to charge the battery.
- Keep cells and battery packs clean and dry. Clean dirty connectors with a dry, clean cloth.
- Batteries contain hazardous chemicals that can cause burns or explode. If exposure to chemicals occurs, clean with water and get medical aid.

- **Do not disassemble the battery.**
- **Repair the Product before use if the battery leaks.**
- **Use only the external mains power supply included with the Product.**
- **Do not put metal objects into connectors.**
- **Use only specified replacement parts.**
- **Have an approved technician repair the Product.**
- **Remove the batteries if the Product is not used for an extended period of time, or if stored in temperatures above 50 °C. If the batteries are not removed, battery leakage can damage the Product.**
- **Disconnect the battery charger and move the Product or battery to a cool, non-flammable location if the rechargeable battery becomes hot (>50 °C) during the charge period.**
- **Do not short the battery terminals together.**
- **Do not keep cells or batteries in a container where the terminals can be shorted.**
- **Do not look into the laser. Do not point the laser directly at persons or animals or indirectly off reflective surfaces.**
- **Do not look directly into the laser with optical tools (for example, binoculars, telescopes, microscopes). Optical tools can focus the laser and be dangerous to the eye.**
- **Do not disassemble the product. The laser beam is dangerous to eyes. Have the Product repaired only through an approved technical site.**
- **Do not use the Product for medical reasons. The Product is intended for equipment evaluation only and should never be used in diagnostics, treatment, or any other capacity where the Product would come in contact with a patient.**

Symbols

The table below lists the symbols that can be used on the Product or in this document.

Symbols	Description
	WARNING. RISK OF DANGER.
	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.
	WARNING. LASER RADIATION. Risk of eye damage.
	Consult user documentation.
	Battery status.
	On/Off
	Conforms to European Union directives.
 Li-ion	The Product contains a lithium-ion battery. Do not mix with the solid waste stream. Spent batteries should be disposed of by a qualified recycler or hazardous materials handler per local regulations. Contact your authorized Fluke Service Center for recycling information.
	This product complies with the WEEE Directive and its marking requirements. The affixed label indicates that you must not discard this electrical/electronic product in domestic household waste. Do not dispose of this product as unsorted municipal waste. For information about take-back and recycling programs available in your country, see the Fluke website.
	Indicates a Class 2 laser. DO NOT STARE INTO BEAM The following text may appear with the symbol on the product label: "IEC/EN 60825-1:2014. In addition, the following pattern on the label will indicate wavelength and optical power: $\lambda = \text{xxxnm}$, $x.\text{xxmW}$.

Specifications

Temperature

Operating.....	-10°C to 50°C
Storage	-20°C to 50°C without batteries

Relative Humidity <95% non-condensing

Altitude

Operating.....	2000 m
Storage	12 000 m

Power

Batteries	Lithium-ion rechargeable smart battery packs
Battery Life.....	2 to 3 hours/battery (* Actual battery life may vary depending on specific settings and usage)
Battery Charge Time	2.5 hours to full charge
Battery Charge Temperature.....	10°C to 45°C
AC Battery Charge.....	Ti SBC3B External Battery Charger

Safety IEC 61010-1: Pollution Degree 2

Wireless Radio

Frequency.....	2400 MHz to 2483.5 MHz
Output Power.....	<100 mW

Laser IEC 60825-1, Class 2; 650nm; <1mW

Electromagnetic Compatibility (EMC)

International.....	IEC 61326-1: Industry 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
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.*

Size (H x W x L) 279 mm x 121 mm x 175 mm

Weight (battery included) .. Ti300U/Ti400U: 1188 g (with battery)
Ti401U/Ti480U: 1215 g (with battery)

Enclosure Rating..... IEC 60529: IP52