

# Thermal Imagers Infrared Cameras

## *Safety Information*



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

To register your product, visit [www.fluke.com](http://www.fluke.com).

To view, print, or download the latest manual or manual supplement, visit <http://us.fluke.com/usen/support/manuals>.

A **Warning** identifies hazardous conditions and procedures that are dangerous to the user. The laser warnings, symbols, and specifications apply only to Products with lasers.

### **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.**
- **Do not use the Product if it is altered or damaged.**
- **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.**



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- **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.**
- **Disconnect the battery charger and move the Product or battery to a cool, non-flammable location if the rechargeable battery becomes hot ( $>50^{\circ}\text{C}$ ) during the charge period.**
- **Replace the rechargeable battery after 5 years of moderate use or 2 years of heavy use. Moderate use is defined as recharged twice a week. Heavy use is defined as discharged to cutoff and recharged daily.**
- **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 open the Product. The laser beam is dangerous to eyes. Have the Product repaired only through an approved technical site.**
- **Do not use laser viewing glasses as laser protection glasses. Laser viewing glasses are used only for better visibility of the laser in bright light.**
- **See emissivity information for actual temperatures. Reflective objects result in lower than actual temperature measurements. These objects can pose a burn hazard.**
- **Do not put metal objects into connectors.**
- **Use only specified replacement parts.**
- **Have an approved technician repair the Product.**
- **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.

| Symbol                                                                                             | Description                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | Consult user documentation.                                                                                                                                 |
|                   | WARNING. RISK OF DANGER.                                                                                                                                    |
|                   | WARNING. LASER RADIATION. Risk of eye damage.                                                                                                               |
| <b>15V DC</b><br> | Center positive power port.                                                                                                                                 |
|                   | Connected to ac power. Battery removed.                                                                                                                     |
|                   | Battery.                                                                                                                                                    |
|                   | Battery status. Battery charging when animated.                                                                                                             |
|                   | On/Off                                                                                                                                                      |
|                   | Universal Serial Bus (USB) connection.                                                                                                                      |
| <b>MEMORY</b>                                                                                      | Memory card slot.                                                                                                                                           |
| <b>HDMI</b>                                                                                        | High-Definition Multimedia Interface (HDMI) connection.                                                                                                     |
|                 | Select                                                                                                                                                      |
|                 | Back                                                                                                                                                        |
|                 | Auto/Manual                                                                                                                                                 |
|                 | Memory                                                                                                                                                      |
|                 | IR-Fusion                                                                                                                                                   |
|                 | Zoom                                                                                                                                                        |
|                 | Rescale                                                                                                                                                     |
|                 | Conforms to European Union directives.                                                                                                                      |
|                 | Conforms to the Appliance Efficiency Regulation (California Code of Regulations, Title 20, Sections 1601 through 1608), for small battery charging systems. |

| Symbol                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | This 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. Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice 50, dated June 24, 2007." 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 (14 °F to 122 °F)                   |
| Storage .....   | -20 °C to 50 °C (-4 °F to 122 °F) without batteries |

**Relative Humidity** ..... 10 % to 95 % non-condensing

### Altitude

|                 |          |
|-----------------|----------|
| Operating ..... | 2000 m   |
| Storage .....   | 12 000 m |

### Power

|                                  |                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------|
| Batteries .....                  | Lithium-ion rechargeable                                                                |
| Battery Charge Temperature ..... | 0 °C to 40 °C (32 °F to 104 °F)                                                         |
| Battery Charge .....             | Ti SBC3B Two-Bay Battery Charger or in-Imager charging. AC universal adapters included. |
| AC Power Adapter .....           | AC operation with included power supply, universal adapters included                    |

### Size (H x W x L)

|                                                  |                                                                |
|--------------------------------------------------|----------------------------------------------------------------|
| TiX5XX Expert Series .....                       | ~(27.7 cm x 12.2 cm x 16.7 cm)<br>~(10.9 in x 6.3 in x 6.6 in) |
| Professional Series and Gas Leak Detectors ..... | ~(26.7 cm x 10.1 cm x 14.5 cm)<br>~(10.5 in x 4.0 in x 5.7 in) |
| Performance Series .....                         | ~(26.7 cm x 10.1 cm x 14.5 cm)<br>~(10.5 in x 4.0 in x 5.7 in) |

**Weight**  
(includes batteries).....≤2.27 kg (5 lb)  
**Ingress Protection Rating** ..... IEC 60529: IP54  
**Safety** ..... IEC 61010-1: Pollution Degree 2

**Wireless Radio**

Frequency..... 2412 MHz to 2462 MHz  
Output Power..... <100 mW

**Laser**..... IEC 60825-1:2014, Class 2  
Wavelength..... 650 nm  
Max Output Power..... <1 mW

**Electromagnetic Compatibility (EMC)**

International..... IEC 61326-1: Portable Electromagnetic  
Environment; IEC 61326-2-2

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.*

USA (FCC) ..... 47 CFR 15 Subpart C Sections 15.207,  
15.209, 15.249.

**SIMPLIFIED EU DECLARATION OF CONFORMITY**

The simplified EU declaration of conformity referred to in Article 10(9) shall be  
provided as follows: Hereby, Fluke declares that the radio equipment contained  
in this Product is in compliance with Directive 2014/53/EU. The full text of the  
EU declaration is available at the following internet address:

<https://www.fluke.com/red>