

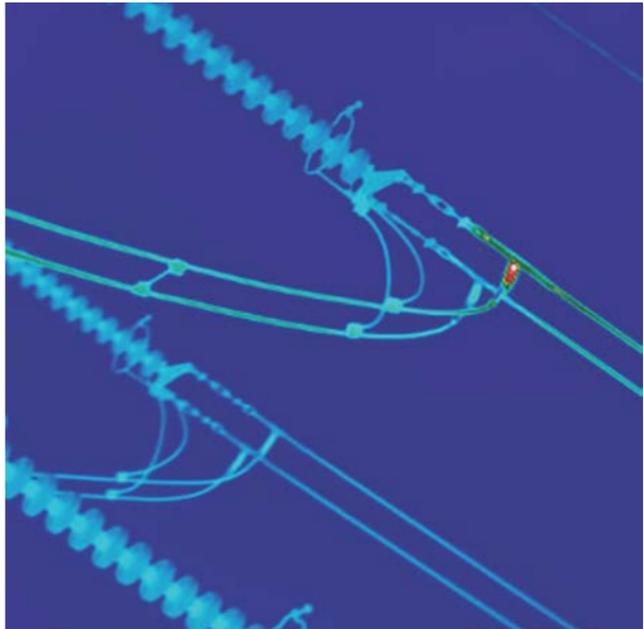


Getting Started Guide **FLIR T6xx** series

Flir T-Series Infrared Cameras

Flir T420 Flir T420bx Flir T440 Flir T440bx

Flir T620 Flir T620bx Flir T640 Flir T640bx



EN-US English

Quick start guide

Follow this procedure to get started right away:

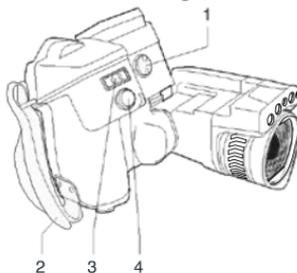
1. Put a battery into the battery compartment.
2. Charge the battery for 4 hours before starting the camera for the first time, or until the green battery condition LED glows continuously.
3. Insert a memory card into the card slot.
4. Push the **1** button to turn on the camera.
5. Aim the camera toward the object of interest.
6. Autofocus the camera by pushing the Autofocus/Save button halfway down.
7. Push the Autofocus/Save button fully down to save an image directly.
8. Move the image to a computer by doing one of the following:
 - Remove the memory card and insert it into a card reader connected to a computer.
 - Connect a computer to the camera using a USB mini-B cable.
9. Move the image from the card or camera, using a drag-and-drop operation.

Note: You can also move the images to the computer using the FLIR Tools software, which comes with your camera.



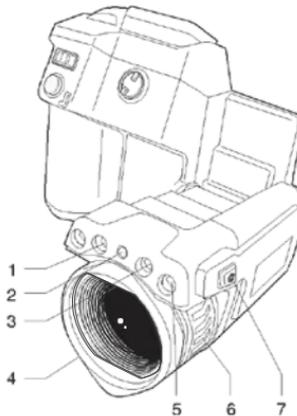
Camera parts

View from the right



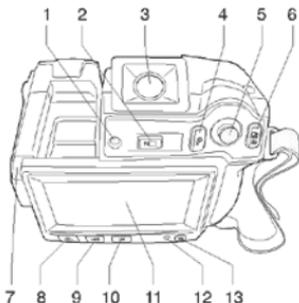
1. Knob to change the dioptic correction for the viewfinder
2. Handstrap
3. Digital zoom button
4. Autofocus/Save button

View from the left



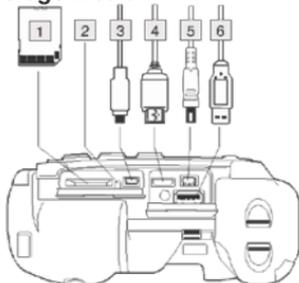
1. Lamp for the digital camera
2. Laser pointer
3. Lamp for the digital camera
4. Infrared lens
5. Digital camera
6. Focus ring
7. Button to operate the laser pointer

View from the rear



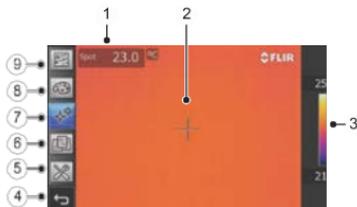
1. Sensor to adjust the touch-screen LCD intensity automatically
2. Button to switch between touch-screen LCD mode and viewfinder mode. **Note:** Dependent on camera model.
3. Viewfinder (dependent on the camera model)
4. Programmable button
5. Joystick
6. Button with two functions:
 - Display the menu system
 - Back button
7. Stylus pen
8. Button to switch between different image modes:
 - Infrared camera
 - Digital camera
 - Thermal fusion
 - Picture-in-picture
9. Button to switch between automatic mode, manual mode, manual minimum mode, and manual maximum mode
10. Image archive button
11. Touch-screen LCD
12. Power indicator
13. On/off button

Connecting external devices and storage media



1. Memory card
2. Indicator showing that the memory card is busy. **Note:** Do not remove the memory card when this indicator glows
3. USB mini-B cable (to connect the camera to a PC)
4. HDMI cable
5. Power cable
6. USB-A cable

Screen elements



Note: The availability of features and functions is dependent on the camera series model and/or the customer configuration.

1. Measurement result table
2. Measurement tools (e.g., spotmeter)
3. Temperature scale
4. Back button.
5. Setup mode (camera, video, program, settings)

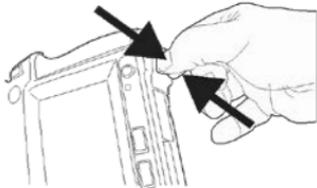
6. *Predefined sets of measurement tools.*
7. *Measurement tools*
8. *Color palettes*
9. *Measurement parameters*

2. *Carefully pull out the lens.*



Removing the battery

1. *Push the two release buttons on the battery cover together.*



2. *Carefully pull out the battery.*

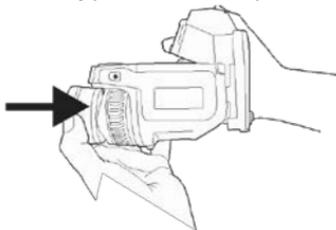


Mounting a lens

1. *Note the index marks on the lens and on the lens bayonet mount.*



2. *Carefully push the lens into position.*



Removing a lens

1. *Rotate the outermost ring 30° clockwise (looking at the camera from the rear).*



3. Rotate the lens 30° counter-clockwise (looking at the camera from the rear).



- Various types of faults, such as those in a building's construction, may result in the same type of thermal pattern.
- Correctly analyzing an infrared image requires professional knowledge about the application.

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To keep in mind

- Adjust the focus first. When the camera is out of focus, the measurement is wrong.
- By default, most cameras adapt the scale automatically. Use this mode first, but do not hesitate to set the scale manually.
- A thermal camera has a resolution limit. This depends on the size of the detector, the lens, and the distance to the target. Use the center of the spot tool as a guide to the minimum possible object size, and get closer if necessary. Make sure to stay away from dangerous areas or live electrical components.
- Be careful when holding the camera perpendicular to the target—you can become a source of infrared radiation through reflection.
- Select a zone of high emissivity, i.e., an area with a matte surface, to perform a measurement.
- Blank objects, i.e. with low emissivities, may appear warm or cold in the camera, as they can cause reflections.
- Avoid direct sunlight on the details that you are inspecting.

