

QUICK SHEET

FLIR Infrared Camera (E60)

LOCATION of EQUIPMENT:

Hardware: See lab attendant

INSTRUCTIONS FOR USE:

1. Power on the device
2. Make sure the rubber cap is removed from the lens
3. Point the FLIR toward whatever you wish to capture and the device will start to calibrate, or set a range of temperature values. You may notice that the upper and lower temps will change as you move around. If you want to set those values manually, tap on the screen and select temperature scale>manual.
4. You can manually focus the device by twisting the rubber ring that surrounds the lens
5. Pull the trigger to capture your thermal image
6. Once you are ready to retrieve any files from the FLIR, remove the sd card on the left hand side
7. Copy all the photos onto your computer and delete the remaining files.

HELPFUL TIPS:

1. Manually setting the temperature range can be really useful when comparing multiple images, but the temperature range can always be adjusted later on the device by pressing the play button>select the image>tap on the screen>edit.

OVERVIEW:

The FLIR E60 is an infrared camera that detects infrared energy (heat) and converts it into an electronic signal, which is then processed to produce a thermal image on a video monitor and perform temperature calculations. Heat sensed by an infrared camera can be very precisely quantified, or measured, allowing you to not only monitor thermal performance, but also identify and evaluate the relative severity of heat-related problems.

SUGGESTED APPLICATIONS:

- Determining heat loss in building's envelope
- Look at solar heat gain

RELEVANT TOPICS:

Post-Occupancy Studies, Daylighting Studies, Performance of Glass in Eliminating UV-B Radiation (Transmittance)