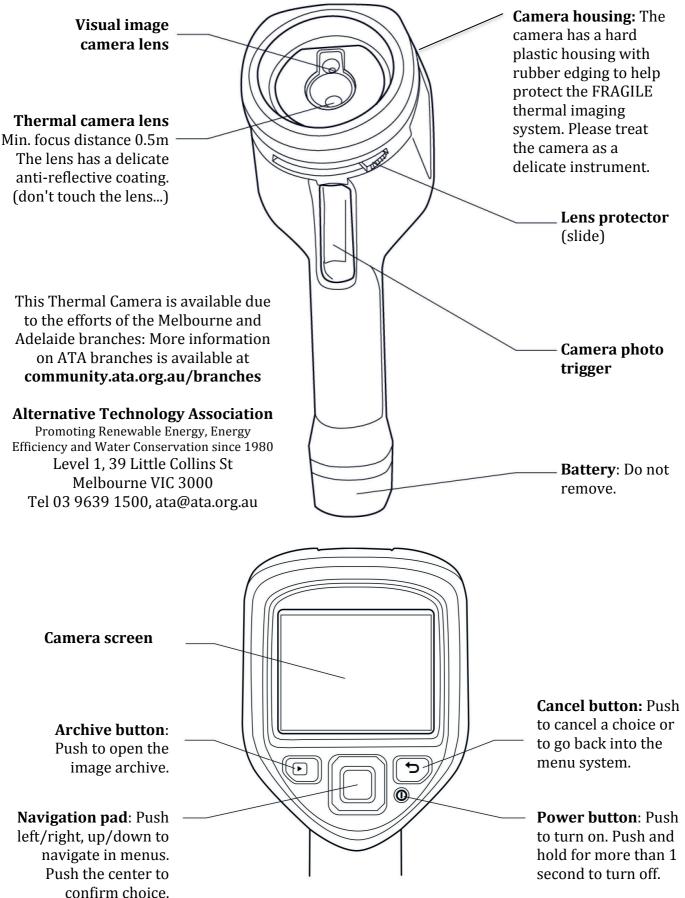


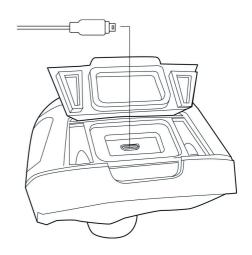
FLIR E4 Thermal Imaging Camera



Charging/download:

Note: Charging the camera using a USB cable connected to a computer takes considerably longer than using the FLIR power supply.

You can connect the camera directly to a computer to download the images as normal JPEG photos. Alternatively use the enclosed CD to install the FLIR software. This will allow you to perform more detailed analysis of the images. All images will be deleted from the camera when returned at the end of the hire period. Free FLIR software tools are available at: www.flir.co.uk/instruments/display/?id=55473



The Thermal Image:

Maximum temperature in image (°C). The temperature range of the image can be set automatically or manually. Temperature range of sensor is -20°C to +250°C

Spot temperature (°C)

False colour image: The camera displays the temperature of each point (pixel) in the image according to the selected false colour scale (ie. iron, rainbow, greyscale). The thermal image is 80×60 pixels.

Things to note in this image:

- the reflection in the table surface
- the steam rising from the kettle
- the outside of the full cup slowly warming from the bottom up
- the dark (cold) patch on the left where the milk carton was placed on the table
- the kettle's insulated handle

43.9 °C 59.0 **♦FLIR** 24.2

Minimum temperature in image (°C)

Science Warning!

Note that shiny surfaces will **reflect** a heat image of other objects and be relatively opaque to emission of their own heat. This makes them appear cooler in an image than they may actually be. Investigate 'emissivity' if you want to adjust for this.

Detailed information as available in Chapters 15, 17 and 19 of the FLIR E4 User Manual.