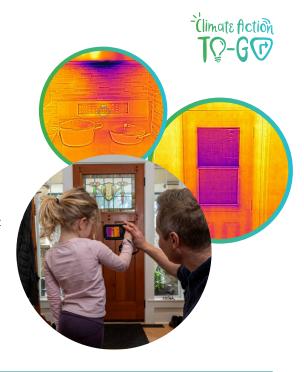
# Thermal Imaging Camera Kit

Thermal cameras can help to identify hot and cold spots in the home, indicating where insulation may be missing or where air leaks are occurring. Use this kit to expose heat loss in your home, improve energy efficiency and save money!

### How the program works:

- The Thermal Imaging Camera Kit may be borrowed by any Greater Victoria Public Library patron in good standing.
- At home, follow the instructions provided later in this guide to identify possible air leaks.
- 3. Return the kit to your local public library branch on time so that the next patron may enjoy it. List of contents:
  - NANUK hardshell carrying case
  - FLIR C3-X camera and pouch
  - · USB charging cable
  - This instruction guide

For more information about the Thermal Imaging Camera Kit program, or to provide feedback, visit: <a href="https://www.crd.bc.ca/actionkits">www.crd.bc.ca/actionkits</a>





## Getting Started

When using a thermal imaging camera to find energy losses, the difference in temperature between the inside of the building and the outside should ideally be at least 10 °C.

- 1. Open the kit and plug in the camera to ensure that it's charged.
- Power on the camera by pressing and holding the power button until the display activates. Use the button next to the power button to take a picture.
- Familiarize yourself with the camera's functionality. Hot areas will appear in warmer colors (red, orange), while cold areas are in cooler colors (blue, purple). Pay attention to potential air leaks, insulation issues, or energy inefficiencies.
- 4. Complete the Simple Energy Evaluation.

To view the full user manual for the FLIR C3-X, visit: <a href="mailto:support.flir.com/resources/cx">support.flir.com/resources/cx</a>

#### Simple Energy Evaluation

To get the most value from your time with the camera, it is best to be methodical. Pick a natural starting point in your house, such as a front or back door, and go from there. If you do this in order, you will be able to prioritize which simple retrofits to do first.

Take photos from the inside of:

- · all windows
- all doors
- · all electrical outlets and light switches on outer walls
- all outer walls (look for cold transferring through wall studs)
- chimneys
- inside dryer long after the most recent drying cycle
- any other locations (e.g. kitchen fans, bathroom fans, fresh air or exhaust vents) that perforate the outer wall of your house

**Please note:** While this can be a useful exercise for visualizing heat loss, this kit is not a substitute for a professional home energy audit.

### Viewing + Saving Your Photos

To view your images, turn on the camera and go to [Gallery] . If you'd like to save your thermal images for future reference, there are two ways to do so:



#### Connect via USB cable (recommended)

- Connect the camera to your device (computer, tablet, etc.) using the USB cable provided.
- 2. Turn on the camera.
- Open [File Explorer] on your device, click [Flir camera], drag-and-drop the images you wish to copy to your computer.
- 4. Turn the camera off and disconnect from your computer.



#### Connect via Wi-Fi using the FLIR Tools app

- Download the free FLIR Tools app from the app store using your smart device.
- Connect the thermal camera to the same Wi-Fi network as your device. To do this, go to [settings] > [connections] > [Wi-Fi] > [available networks] on the thermal camera.
- Open the FLIR Tools app on your phone, go to [Devices] > [Turn the switch on to start discover] > [Connect].
- Once connected go to [Import] and select the images you wish to import to your device.
- 5. When finished, turn off the camera.



### Deleting your images from the camera

Before returning the kit to the library, please delete all of your images from the camera. While risk is minimal, this ensures that the next user does not have access to your images. The CRD and public library do not assume any responsibility for images that are not deleted by the user.

- 1. Turn on the camera.
- Go to [settings] > [Save options & storage] > [delete all saved files] > [Delete].
- 3. Turn off the camera.

**Privacy Disclaimer:** The camera may prompt you to sign up for a FLIR Ignite account, we **DO NOT** recommend this due to privacy considerations. Should you choose to upload your images to the FLIR Ignite Cloud Service neither the CRD nor public library are responsible for the images shared.

Turn over for next steps!



### What's Next?



#### **Retrofits and Rebates**

Did you find air leaks? You may wish to take action to improve your home's energy efficiency! Small changes like draftproofing your home can make a big difference and most DIY materials are inexpensive and can be found at your local hardware store. For bigger retrofit projects, like switching to an electric heat pump, upgrading insulation, windows or doors, there are thousands of dollars in rebates and interest-free loans available. Here are a few resources to help get you started:

- For energy-saving tips, DIY draftproofing tutorials, and to see if you
  qualify for a free energy saving kit, visit: <a href="www.bchydro.ca/powersmart">www.bchydro.ca/powersmart</a>
- Sign up for the CRD's Home Energy Navigator program, a free program helping homeowners in the capital region navigate the home energy retrofit process. Get personalized assistance from local energy experts, including contractor quote comparisons and rebate navigation. Get started at: www.homeenergynav.ca

