

## How See the Heat Works

- 1 The FLIR camera may be borrowed by any student in the Beyond Recycling classroom.
- 2 Once at home, follow the camera instructions in this brochure and complete some minor retrofits using the FortisBC draft-proofing kit that is provided.
- 3 Return the borrowed camera to your teacher so that the next student may enjoy it. | FLIR camera | case | charging cable  
The FortisBC draft-proofing kit is yours to keep!
- 4 Take a deeper look at saving energy by having a home energy evaluation. You can save over 60% by registering through the Regional Energy Efficiency Program (REEP), learn more at [www.rdck.ca/reep](http://www.rdck.ca/reep).

## Curious About How to Significantly Reduce Your Energy Usage?

A renovation that includes installing new windows and adding additional insulation could save you 18% off your energy bill; a deep retrofit that improves the thermal performance of your home's external walls could save as much as 80%!

Access bonus rebates by having an energy evaluation, learn what to upgrade to save the most energy. Plus receive a customized report showing how much energy your home uses, and how much less it would use if you were to complete the recommended upgrades. Save over 60% on the energy evaluation by registering in the **Regional Energy Efficiency Program** ([rdck.ca/reep](http://rdck.ca/reep)) and receive help navigating through the process.

View available rebates at [betterhomesbc.ca](http://betterhomesbc.ca) or [FortisBC.com/Rebates](http://FortisBC.com/Rebates)



For more information about the Thermal Imaging Camera Program, contact the RDCK or visit the website

P: 236-532-2016 | E: [info@rdck.bc.ca](mailto:info@rdck.bc.ca)



[rdck.ca/reep](http://rdck.ca/reep)



FOR TECHNICAL SUPPORT  
VISIT [FLIR.CustHelp.com](http://FLIR.CustHelp.com)

Please return the Thermal Imaging Camera Kit to your school.

# SEE THE HEAT

## Thermal Imaging Camera Kit

Improve the energy efficiency of your home with a thermal imaging camera and the FortisBC draft-proofing kit



Regional Energy Efficiency Program  
HOME RENOVATION

[rdck.ca/reep](http://rdck.ca/reep)



## 1. 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.
- 2 Download the free FLIR ONE app from your app store.
- 3 Connect the fully charged camera to your smart phone. Both Android and IOS phones are available for use.
- 4 Open the FLIR App and follow directions for camera use.
- 5 Familiarize yourself with the camera's functionality (see below) and then begin using the camera (next page)

## 2. Familiarize Yourself with the Camera

Get to know the camera by completing the fun exercises listed below:

- Like to sleep with a window open? Or do you leave a bathroom window open a crack?** Compare inside and outside photos of that window with others that you keep shut.
- Do you have a fireplace and sometimes forget to close your flue?** Take a picture of the inside and outside of your chimney.
- Do you leave power bars on with unused electronics plugged in?** Take a picture and see the phantom load turn to heat.

- Do you leave the door open while you bring in the groceries?** Or while you take your shoes off? Take a picture of your door frame after leaving the door open for three minutes!
- Do you have a fireplace or other natural gas appliance that you use infrequently but have a pilot light burning?** Take a photo of it to see the heat.

## 3. Using the Camera

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

### Quick Fixes with Your Draft-proofing Kit

Inside the FortisBC draft-proofing kit, you will find a few items to get you started. Get more from your favourite hardware store.

- plastic window insulation
- electrical switch and outlet insulator
- door and window weatherstripping

To view tutorial videos on how to use these items, visit [rdck.ca/reep](http://rdck.ca/reep)



Once you've mastered the camera, and taken photos using the list above, learn more about how much energy your homes use by registering for a home energy evaluation through the **Regional Energy Efficiency Program (REEP)**. Visit [www.rdck.ca/reep](http://www.rdck.ca/reep).