

Thermal Imaging Camera

Well done on starting your journey to reduce your fuel consumption and therefore carbon emissions.

If we all use less fuel for travelling, making 'stuff' and heating we will reach the NetZero target in 2030 and slow down climate change.

Using this camera to take images of your home will highlight warm and cold areas. If you add insulation to the highlighted areas where appropriate, the heat your boiler generates will stay in your home and you will use less fuel.

Top tips – read before you get the camera out.

- Ideally take photos on a cold evening with your heating on, so temperature extremes are clearly visible. The outside temperature needs to be below 10°C.
- Experiment with the family. Your windows will always be colder than your walls but you can immediately see the huge difference curtains make.
- In addition to your roof and walls, check your front and back door, loft hatch, cat flap, fireplace and dormer windows. With extensions, look at the join with the original building.
- Compare your roof to your neighbours', then let them know what you see!
- Try imaging from the inside of your loft to see any temperature differences.
- Search on YouTube – lots of people have recorded themselves using a thermal imaging camera and have some good tips.
- [Wiltshire County Council](#) has some good advice too.
- Take time to interpret your images. Not all cold or hot spots are problems.
- Please remove the camera carefully from its packaging before use and place it back in the original packaging at the end of your hire period. The packaging is padded with custom cut foam to ensure the camera is kept safe from knocks and bumps.

The camera

Use instructions provided via the QR code for complete instruction manual.

After imaging

Once you have seen the images you need to interpret them and decide how you can improve the heat loss from your home. There is lots of guidance online from local authorities, government agencies and

businesses, as well as individuals all proudly showing their insulation hacks and tips. Look at a good cross section of advice and make your own decision on how to proceed.

Guidance on insulation

The [Heat your home for Less](#) program on Channel 4 (Dec 2024) has some brilliant tips on heating, insulation and using thermal imaging cameras.

Your **energy supplier** will have advice and guidance on saving fuel and insulation. Check their, and other, energy suppliers' websites.

[Bracknell Forest Council](#) has a large section on its website dedicated to energy efficiency, grants and advice, including [Green Doctors energy advice service](#).

[Gov.uk](#) also has plenty of advice on energy efficiency in your home and grants, including the [Great British Insulation Scheme](#) which provides grants for insulation.

The [Energy Saving Trust](#) has plenty of advice on saving money, insulation, grants, low carbon travel and more.

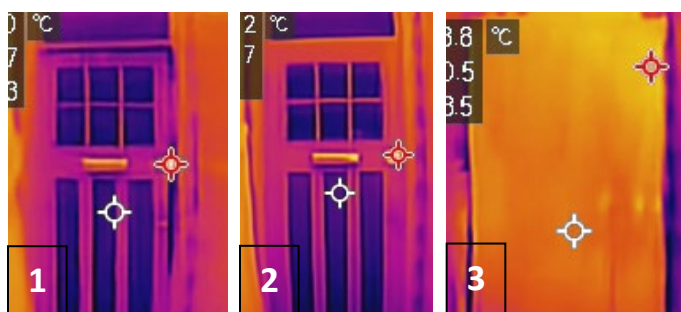
The library has a **Which?** account, with consumer information on insulation to help explore the options. Ask the librarian to help you log on to this great free facility.

[Costing the Earth on BBC Sounds](#) is an old episode when energy prices were much cheaper and government initiatives differed but there are still some interesting points on retrofitting insulation.

[You and Yours on BBC Sounds](#) has a number of programs that touch on insulation from a consumer's perspective.

Find the [EPC certificate](#) for your building on the gov.uk website. This will show you what energy saving measures were recommended – probably when you bought the property.

Case study in Crowthorne – interior photos



1. Front door with cold drafts at the top and right.
2. With draft excluder tape applied to the drafts, the door no longer looks ajar with purple drafts. Window insulation applied with a hair dryer to the 6 square windows has a less visible effect but it feels noticeably different to the touch.
3. A floor to ceiling curtain warms it all up.



This gas fireplace is no longer used but despite attempts to minimise drafts it still cools the living room dramatically producing a temperature difference of more than 10 degrees. More work to do here...

Camera Instructions

'Really quick start' instructions

- Turn it on.
- Point the camera and study the screen*!
- If you would like to record an image click the trigger.

**See the temperatures – hottest, coldest and central on the screen. They may not always be very different, despite the dramatic colours shown. Take time to interpret your images.*

For full instructions see manual on this QR code:



If you do change any settings, please reverse them to normal settings ready for the next user.

Returning the camera

This is a free facility to help the community reduce their costs and fuel use/carbon emissions. Please return the camera in time so someone else can use it.

Please, please charge the camera **and** delete any images. Pictures left on the camera will be in the public domain. See the website for library opening times when the camera can be returned.