

FLIR C2

Powerful, compact thermal imaging system



Frequently Asked Questions

What is the price of the FLIR C2 compact professional thermal camera?

The FLIR C2 thermal imaging camera MSRP is 699€ EUR / £559 GBP.

Where can I purchase a C2?

From one of our premier distribution partners.

Why launch the C2 for the professional and consumer market?

A variety of contractors in the building profession – energy efficiency specialists, construction experts, HVAC technicians, home inspectors, as well as DIY enthusiasts – have wanted an affordable, compact thermal imaging tool that’s easy to use and easy to carry on them so they don’t miss an opportunity to find hidden heat problems. As the world’s first full-featured, pocket-portable thermal camera, the FLIR C2 fills that need perfectly.

What are its unique features?

- Slim, lightweight profile that fits comfortably in practically any pocket.
- MSX® – our patented multi-spectral enhancement that adds stunning, recognizable detail to thermal images so you know exactly what you’re looking at.
- A bright 3” touchscreen to make it easy to access image modes, diagnostic tools, and settings.
- Auto orientation for comfortable viewing of onscreen temperature readings when framing images in portrait mode.
- Fully radiometric images that you can import, adjust and analyze with using FLIR Tools whenever you want, and also measure temperatures ranging from -10° to 150°C on any of the thousands and thousands of pixels captured in each image.
- FLIR Tools professional software for Mac or PC included – the industry standard on post analysis reporting that also allows streaming video to your computer.
- A bright LED spotlight for photo illumination and working in darker spaces.
- High thermal sensitivity – vital for seeing subtle heat patterns common in insulation and moisture applications.

How do thermal imagers work?

A thermal imaging camera captures invisible infrared “heat” radiation, which all objects emit, transmit, or reflect, and transforms what it detects into recognizable pictures and heat patterns. The C2 displays temperature differences as contrasting colors on its LCD screen, with hot areas appearing brighter and cooler areas darker. For more information please see “How it works”.



How does the C2 compare to FLIR's E4?

The C2 and E4 offer the same 80 x 60 pixel resolution infrared detector as well as MSX enhancement, but each has different strengths. The E4, higher priced and featuring large buttons for gloved operation, a button-based user interface, and a reliable grip for one-handed use, is well-suited for electrical/mechanical industrial applications.

C2, with a lower MSRP, is designed primarily for building applications with its compact pocket portability, a bright 3" LCD for easy touchscreen menu navigation, Auto Orientation for comfortable viewing of vertical scenes, an oversized snapshot button for saving fully radiometric JPEG images, and an LED spotlight for instant illumination.

How does the C2 compare to the FLIR ONE?

The C2 is a standalone, pocket portable, fully radiometric thermal imaging camera that is ready to use at any time. The FLIR ONE is not a standalone thermal camera. In order to operate, the product requires a separate iOS or Android device which is an additional expense; it is not point and shoot ready.

What type of warranty comes with the C2?

An automatic one-year warranty without registration. When registered online within 60 days of purchase, FLIR offers an extended warranty of two years on the C2 camera and battery, and ten years on the Lepton® sensor.

Where can I use the C2?

The C2 can be used for a variety of building-related applications:

- Building contractors can use it as a non-destructive tool for locating studs, pipes and ducts in walls, insulation voids, and signs of water damage.
- Roofing contractors can scan for heat retention in flat roof membranes and insulation that may indicate the location of leaks.
- Energy efficiency experts can scan for cold and warm air infiltration flowing around leaky doors and windows and through unsealed outlets and switches as well as find missing insulation in walls and ceilings.
- Home and building inspectors who need to check for energy waste, signs of water leaks that may lead to mold, electrical overheating, HVAC and plumbing issues, and more.
- HVAC technicians can look for duct leaks, check tubing in radiant floor heating systems, measure air temperatures, and check mechanical belts and motors as well as energy leaks.
- Plumbers can look for clogged pipes, locate plumbing in walls, and more.
- Small electrical contractors can see hotter switches, connections, and breakers and measure hotspot temperatures.
- Design/build architects can inspect for framing integrity, insulation, air leaks, and other problems indicated by suspect heat signatures.

Are there any privacy issues with thermal imagers?

The C2 does not provide "x-ray" vision. It can't see through clothing, glass, or solid objects or structures. The C2 allows you to visualize and measure surface temperature, only. That said, in many cases, the surface temperature of an object can be

affected by things behind or under it, such as wooden studs in a wall. You can easily see the location of the studs with thermal imaging due to their effect on the surface temperature of the wall, without actually seeing through the wall.

What is the resolution of the imager / display?

80 x 60 pixel thermal image resolution with a 3" LCD display. Accompanied by the 640x480 visible camera to produce Multi Spectral Imaging, MSX, the image is enhanced significantly to identify image details that normally aren't visible by infrared alone.

Can I adjust the level and span of the thermal image?

No. But the C2 does allow you to either image in automatic mode or, once you've established a contrast view you prefer, switch to "lock" mode to maintain the preferred view. Either way, the C2 provides you with a quick troubleshooting tool. And once you download saved images into your free FLIR Tools software, you can always adjust contrast and brightness levels, as well as color palettes, and add more measurement tools to the picture before creating your persuasive reports with the software.

What is the temperature range that the C2 can detect?

-10° to +150°C (14° to 302°F)

What are the emissivity presets?

They're simple settings that allow you to choose the surface type that you're targeting. Choices include: matte, semi-matte, semi-glossy plus a custom value.

Can the C2 store images and video?

The C2 can save hundreds of images to its internal memory that you can review in-camera from the onboard gallery or download later onto your computer. With FLIR Tools, you can stream live video via a USB cable to your computer.

How is the C2 charged?

The C2 has an internal battery that is charged using the mini USB port and cable. The battery operates for 2 hours continuous use.

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