












FLIR b50

FLIR b50 a lightweight, competent infrared camera. Li Ion batteries allow work for 5 hours without interruption of charging. The FLIR LED lights make it possible to work even in dark environments. Insulation alarm and Dew point alarm are perfect in a building site. The visual 2.3 Mpixel digital camera and three step Fusion Picture in Picture functionality helps produce radiometric JPEG images in a professional way. FLIR QuickReport™ software makes it possible to analyze IR and visual pictures captured in field back in the office.

-  IR resolution 140 x 140 pixels
-  Digital camera 1536 x 1536 pixels
-  Lightweight 600 g
-  Laser Pointer
-  Copy to USB
-  Fusion (3 steps Picture in Picture)
-  5 hours battery
-  LED lights
-  21 languages
-  Dew point & Insulation alarm
-  NETD 90 mK



FLIR b50 Features

- **Digital Camera** – 2.3 Megapixels with built-in LED lights provides sharp images regardless of lighting conditions
- **Picture in Picture (PiP)** – Displays resizable IR image super-imposed over a digital image
- **Wide Temperature Range** – Measures from -20 °C to +120 °C targeting building applications
- **± 2% Accuracy** – Reliable temperature measurement
- **Insulation alarm** – Shows the insulation performance of the building structure
- **Dew point alarm** – Alerts you to the areas where there is a risk of condensation
- **Thumbnail Image Gallery** – Allows quick search of stored images
- **Laser Pointer** – Pinpoints the hot spot on the IR image with the real physical target
- **Micro SD Card** – Stores more than 2000 radiometric JPEG images



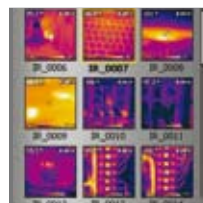
140 x 140 pixel resolution



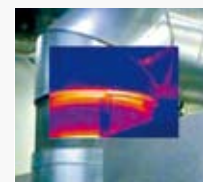
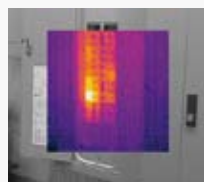
Fusion (3 steps PiP)



Built-in LED lights



Thumbnail Image Gallery



Fusion (3 steps Picture in Picture)

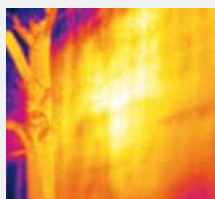
Allows for easier identification and interpretation of infrared images. This advanced technology enhances the value of an infrared image by allowing you to overlay it directly over the corresponding visible image. This functionality combines the benefits of both the infrared image and visual picture at the push of a button.

FLIR b50 Specifications

Imaging and optical data	
Field of view (FOV) /	25° × 25° / 0.10 m (0.33 ft.)
Minimum focus distance	
Spatial resolution (IFOV)	3.12 mrad
Thermal sensitivity/NETD	<0.09 °C (<0.16 °F) @ +25 °C (+77 °F) / 90 mK
Image frequency	9 Hz
Focus	Manual
Focal Plane Array (FPA) /	Uncooled microbolometer / 7.5–13 µm
Spectral range	
IR resolution	140 × 140 pixels
Image presentation	
Display	Built-in 3.5 in. LCD, 256k colors, 240 × 320 pixels
Image modes	IR image, visual image, Picture in Picture, thumbnail gallery
Picture in Picture	IR area (in three steps) on visual image
Measurement	
Object temperature range	–20 to +120°C (–4 to +248°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement analysis	
Spotmeter	Center spot
Area	1 box with min./max.
Emissivity correction	Variable from 0.1 to 1.0 or selected from list of materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Isotherm	1 with above/below
Dew point alarm	Yes
Insulation alarm	Yes
Set-up	
Menu commands	Palettes (Black and White, Iron and Rainbow), image adjustment (auto/manual)
Set-up commands	Local adaptation of units, language, date and time formats; automatic shutdown, display intensity
Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Digital camera	
Built-in digital camera	2.3 Mpixels (1536 × 1536 pixels), and two LED lights
Digital camera, focus	Minimum focus distance 0.4 m (1.3 ft.)

Laser pointer	
Laser	Semiconductor AlGaInP diode laser, Class 2
Data communication interfaces	
Interfaces	USB-mini, USB-A
Power system	
Battery	Li Ion (field replaceable), 5 hours operating time
Charging system	In camera, AC adapter, 2-bay charger or 12 V from a vehicle
Power management	Automatic shutdown (user selectable)
AC operation	AC adapter, 90–260 VAC, 50/60 Hz, 12 V output to camera
Environmental data	
Operating temperature range	–15 to +50 °C (+5 to +122°F)
Storage temperature range	–40 to +70 °C (–40 to +158°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25 °C to +40 °C (+77°F to +104°F)
Encapsulation	IP 54 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Camera weight, incl. battery	0.60 kg (1.32 lb)
Camera size (L × W × H)	235 × 81 × 175 mm (9.3 × 3.2 × 6.9 in.)
Scope of delivery	
Packaging, contents: Hard transport case, Infrared camera with lens, Battery, Calibration certificate, FLIR QuickReport™ PC software CD-ROM, Memory card with adapter, Power supply, Printed Getting Started Guide, USB cable, User documentation CD-ROM, Warranty extension card or Registration card	
Optional software	
FLIR Reporter Standard/ Professional	A powerful yet easy-to-use tool to generate comprehensive and professional infrared inspection reports.
FLIR BuildIR™	A powerful yet easy-to-use software designed to visualise and quantify building related issues

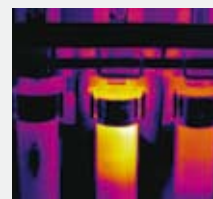
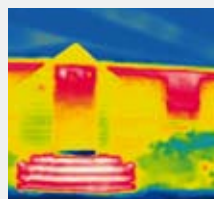
Applications



Building: Water and mildew in wall



Building: Heat Loss



Electrical: Hot Fuses



Specifications and prices subject to change without notice.

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