





# FLIR b40

FLIR b40 is a lightweight, competent combination of infrared and digital camera in your toolbox. The Li Ion batteries make it possible to work 5 hours without interruption. Laser pointer, micro SD card and unique FLIR LED lights make it possible to work effectively even in dark environments. Insulation alarm and Dew point alarm are perfect in a building site. The Picture in Picture functionality helps produce and save images in a professional way. With FLIR QuickReport™ software you can analyze pictures captured in field back in the office.

-  IR resolution 120 x 120 pixels
-  Digital camera 768 x 768 pixels
-  Lightweight 600 g
-  Laser Pointer
-  Copy to USB
-  Fusion (Picture in Picture)

-  5 hours battery
-  LED lights
-  21 languages
-  Dew point & Insulation alarm
-  NETD 100 mK



## FLIR b40 Features

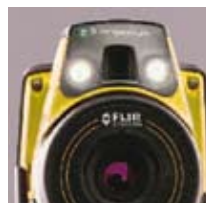
- **Digital Camera** — 0.6 Megapixels with built-in LED lights provides sharp images regardless of lighting conditions
- **Picture in Picture (PiP)** — Displays thermal image super-imposed over a digital image
- **Wide Temperature Range** — Measures from -20 °C to +120 °C targeting building applications
- **± 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



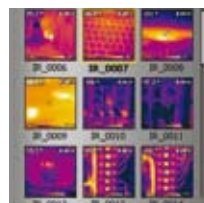
120 x 120 pixel resolution



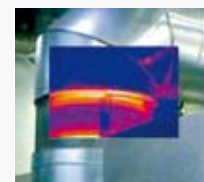
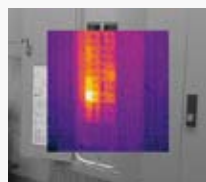
Fusion (Picture in Picture)



Built-in LED lights



Thumbnail Image Gallery



### Fusion (Picture in Picture)

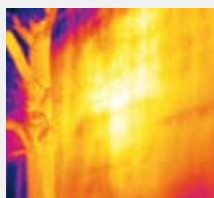
Allows for easier identification and interpretation of infrared images. This advanced technology enhances the value of an infrared image by allowing you to overlay it directly over the corresponding visible image. This functionality combines the benefits of both the infrared image and visual picture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

# FLIR b40 Specifications

Imaging and optical data	
Field of view (FOV) /	25° × 25° / 0.10 m (0.33 ft.)
Minimum focus distance	
Spatial resolution (IFOV)	3.64 mrad
Thermal sensitivity/NETD	<0.10 °C (<0.18 °F) @ +25 °C (+77 °F) / 100 mK
Image frequency	9 Hz
Focus	Manual
Focal Plane Array (FPA) /	Uncooled microbolometer / 7.5–13 µm
Spectral range	
IR resolution	120 × 120 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 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	0.6 Mpixels (768 × 768 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

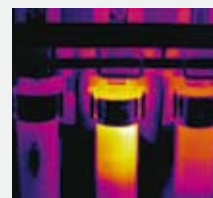
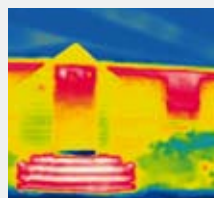
## Applications



Building: Water and mildew in wall



Building: Heat Loss



Electrical: Hot Fuses



Specifications and prices subject to change without notice.

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