

FLIR i-Series

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FLIR i50

FLIR i50 a lightweight, highly competent and easy to use combination of infrared camera and visual digital camera. The unique FLIR LED lights make it possible to work even in dark environments. Li lon batteries give 5 work hours without interruption of loading. The easy to use menu system in the camera helps produce and save radiometric JPEG images and visual digital images in a professional way. FLIR QuickReport[™] software makes it possible to analyze, both infrared and visual pictures captured in field, back in the office.

- IR resolution 140 x 140 pixels
- 2.3 Digital camera 1536 x 1536 pixels
- 🥏 Lightweight 600 g
- 🛏 Laser Pointer
- 👽 Copy to USB

FLIR i50 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 +350 °C targeting electrical and industrial applications
- ± 2% Accuracy Reliable temperature measurement
- IR Window Auto-Correction Automatic sensitivity adjustment when inspecting high voltage through safety IR windows
- 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



Built-in LED lights



140 x 140 pixel resolution Fusion (3 steps PiP)



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.



Fusion (3 steps Picture in Picture)

5 hours battery

21 languages

LED lights

FLIR i50 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	<0.10 °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	140×140 pixels
Image presentation	·
	Ruilt in 2 5 in LCD 256k colors
Display	Duilt-III 3.3 III. LCD, 230K COIDIS,
	240 × 320 pixels
image modes	IR Image, visual image, Picture in Picture,
Distance in Distance	thumbhail gallery
Picture in Picture	IR area (in three steps) on visual image
Measurement	
Object temperature range	–20 to +120 °C (–4 to +248 °F)
	0 to +350 °C (+32 to +662 °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 annarent temperature	Automatic based on input of reflected
correction	temperature
IB window Auto-Correction	Automatic based on inputs of ontics/
	window transmission and temperature
0 /	
Set-up Manu commondo	Deletter (Dischand Wikite, Juan and
Menu commands	Palettes (Black and White, Iron and
	Rainbow), image adjustment (auto/
Out and a second	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	data, on memory card
Digital camera Built-in dioital camera	data, on memory card
Digital camera Built-in digital camera	data, on memory card 2.3 Mpixels (1536 × 1536 pixels), and two LED lights
Digital camera Built-in digital camera Digital camera, focus	data, on memory card 2.3 Mpixels (1536 × 1536 pixels), and two LED lights Minimum focus distance 0.4 m (1.3 ft)

Class 2 Data communication interfaces Interfaces USB-mini, USB-A Power system Battery Li lon (field replaceable), 5 hours operating time Charging system In camera, AC adapter, 2-bay charger 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) IP 54 (IEC 60529) Bump 25 g (IEC 60068-2-29) Vibration 2 g (IEC 60068-2-6) Physical data Camera weight, incl. battery 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, conten	laser	Semiconductor AlGaInP diode laser	
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Applications



Motor: Bearing Problem







Motor: Internal Winding Problem

Building: Heat Loss

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