CFLIB

Matt (3=0.95)



# 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. Lithium 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



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

### 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



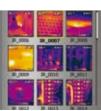
140 x 140 pixel resolution



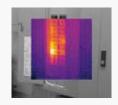
Built-in LED lights



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.

## FLIR i50 Specifications

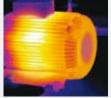
lmaging and optical data	
Field of view (FOV) /	25° × 25° / 0.10 m (0.33 ft.)
Minimum focus distance	
Spatial resolution (IFOV)	3.12 mrad
Thermal sensitivity/NETD	<0.10 °C (<0.18 °F) @ +25 °C (+77 °F) / 100 m
Image frequency	9 Hz
Focus	Manual
Focal Plane Array (FPA) /	Uncooled microbolometer / 7.5–13 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	<u> </u>
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 apparent temperature	Automatic, based on input of reflected
correction	temperatur
IR window Auto-Correction	Automatic, based on inputs of optics/
THE WINDOW FLATO CONTOCUON	window transmission and temperature
Cat	The state of the s
Set-up Menu commands	Palettes (Black and White, Iron and
iviena commanas	Rainbow), image adjustment (auto/
	manual)
Sot-un commands	
Set-up commands	Local adaptation of units, language, dat
	and time formats; automatic shutdown,
	display intensity
Storage of images	
Image storage	Standard JPEG, including measuremen
	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.)
2.g.ta. 04.11014, 10040	

Laser pointer	
Laser	Semiconductor AlGaInP diode laser, 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 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 Vibration	25 g (IEC 60068-2-29) 2 g (IEC 60068-2-6)
	2 g (IEC 60066-2-6)
Physical data	0.00   (4.00    )
Camera weight, incl. battery	0.60 kg (1.32 lb) 235 × 81 × 175 mm (9.3 × 3.2 × 6.9 in.)
Camera size $(L \times W \times H)$	235 × 81 × 175 mm (9.3 × 3.2 × 6.9 ln.)
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

## **Applications**













Motor: Internal Winding Problem

Building: Heat Loss

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Motor: Bearing Problem

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Authorised FLIR dealer: