FLIR E-Series



Lightweight design, Heavyweight performers

The FLIR E-Series are small and lightweight thermal imaging cameras designed for those needing higher resolution and more features and for whom documentation of findings are important.

The cameras are ideal for predictive maintenance and planned inspection of electrical and mechanical systems to ensure they operate at maximum efficiency and safety with minimal energy consumption.



Up to 320 x 240 pixels resolution

The FLIR E-Series infrared image resolution ranges from 160x120 pixels to 320x240 pixels depending on camera model. Every additional pixel means more valuable temperature information to isolate problem areas.



included).

Small and lightweight



High quality visual camera

Visible light camera makes observing and inspecting faster and easier.

FLIR E-Series models weigh only 825g (battery



Thumbnail image gallery

An easy-to-access thumbnail image gallery helps you to quickly review and find your thermal images.



± 2% accuracy

High accuracy of $\pm 2\%$ or ± 2 °C of reading.



LCD touch screen

Large 3.5" LCD color touch screen.



Built-in LED light

The built-in LED lamp ensures quality visual images regardless of job site lighting levels.



Long life battery

With a 4 hour battery life its easy-to-replace Lithium lon batteries will keep up with your demanding schedule.



Laser Pointer

A conveniently located button activates the laser pointer that will help you associate the hot or cold spot in the thermal image with the real physical target in the field.



Picture-in-Picture (PiP)

With the PiP-function it is easy to locate areas of interest.



Thermal Fusion*

Merges visual and thermal images to offer better analysis.



Instant reports*

Create instant reports directly in camera. Easy to copy reports to USB.



Text and voice annotations*

Text comments can be made from a pre-defined list or by using the touch screen. A headset can be connected to make voice annotations.



Interchangeable lenses

In order to adapt the FLIR E-Series to every situation both wide angle and tele-lenses are available.

* Features dependant on camera model, please check technical specifications for more details.



Large 3.5″ touchscreen



Large backlit buttons fit bare hands or gloves





Connect to smartphone or tablet via Wi-Fi, use the FLIRViewer App (Apple) or FLIR Tools mobile (Android) for processing and sharing results

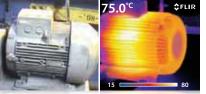
The FLIR E-Series is equipped with a digital camera, a LED lamp and a laser pointer.



Motor: Bearing Problem.



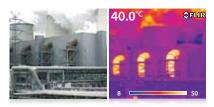
Inspecting the tranformer using the Fusion Picture-in-Picture function.



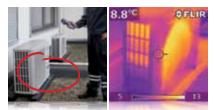
Motor: Internal Winding Problem.



Mechanical check-up of an electrical motor using the FLIR E-Series.



Damaged insulation.



Check-up of an air conditioning installation quick and easy.

FLIR E-Series camera model comparison



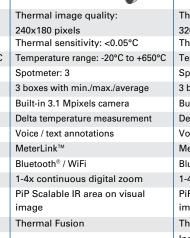


Thermal image quality:
160x120 pixels
Thermal sensitivity: <0.1°C
Temperature range: -20°C to +350°C
Spotmeter: 1
1 box with min./max./average
Built-in 2 Mpixels camera



Thermal image quality:
160x120 pixels
Thermal sensitivity: <0.07°C
Temperature range: -20°C to +650°C
Spotmeter: 3
3 boxes with min./max./average
Built-in 3.1 Mpixels camera
Delta temperature measurement
Voice / text annotations
MeterLink™
Bluetooth [®] / WiFi
1-2x continuous digital zoom
PiP IR area on visual image









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	Thermal image quality:
	320x240 pixels
	Thermal sensitivity: <0.05°C
50°C	Temperature range: -20°C to +650°C
	Spotmeter: 3
)	3 boxes with min./max./average
	Built-in 3.1 Mpixels camera
nt	Delta temperature measurement
	Voice / text annotations
	MeterLink™
	Bluetooth [®] / WiFi
	1-4x continuous digital zoom
	PiP Scalable IR area on visual
	image
	Thermal Fusion
	Instant report



FLIR E-Series

Technical specifications

Camera specific









	FLIR E30	FLIR E40	FLIR E50	FLIR E60
Imaging Performance				
IR resolution	160 × 120 pixels	160 × 120 pixels	240 × 180 pixels	320 × 240 pixels
Spatial resolution	2.72 mrad	2.72 mrad	1.82 mrad	1.36 mrad
Thermal sensitivity	< 0.1 °C	< 0.07 °C	< 0.05 °C	< 0.05 °C
Zoom	N/A	1-2x continuous digital zoom, incl.	1-4x continuous digital zoom, incl.	1-4x continuous digital zoom, incl.
		panning	panning	panning
Image presentation				
Picture in Picture	N/A	IR area on visual image	Scalable IR area on visual image	Scalable IR area on visual image
Thermal Fusion	N/A	N/A	Yes	Yes
Image modes	IR image, visual image, thumbnail	IR image, visual image, thumbnail	IR image, visual image, thermal	IR image, visual image, thermal
	gallery	gallery	fusion, picture-in-picture, thumbnail gallery	fusion, picture-in-picture, thumbna gallery
Measurement				
Object temperature range	-20°C to +120 °C / 0°C to +350 °C	–20°C to +120 °C / 0°C to +650 °C	-20°C to $+120~^\circ\text{C}$ / 0°C to $+650~^\circ\text{C}$	–20°C to +120 °C / 0°C to +650 °C
Measurement analysis				
Spotmeter	1	3	3	3
Area	1 box with min./max./average	3 boxes with min./max./average	3 boxes with min./max./average	3 boxes with min./max./average
Difference temperature	N/A	Delta temperature between	Delta temperature between	Delta temperature between
		measurement functions or	measurement functions or	measurement functions or
		reference temperature	reference temperature	reference temperature
Reporting				
Instant report	N/A	N/A	N/A	Yes
	•	·		
Digital camera				
Built-in digital camera	2 Mpixels, and one LED light	3.1 Mpixels, and one LED light	3.1 Mpixels, and one LED light	3.1 Mpixels, and one LED light
Laser pointer				
Laser alignment	N/A	Position is displayed on the IR	Position is displayed on the IR	Position is displayed on the IR
		image	image	image
Image annotations		-		
Voice	N/A	60 seconds via Bluetooth®	60 seconds via Bluetooth®	60 seconds via Bluetooth®
Text	N/A	Text from predefined list or soft	Text from predefined list or soft	Text from predefined list or soft
		keyboard on touch screen	keyboard on touch screen	keyboard on touch screen
MeterLink	N/A	Possible to connect, via Bluetooth,	Possible to connect, via Bluetooth,	Possible to connect, via Bluetooth,
		Extech Moisture meter M0297 or	Extech Moisture meter MO297 or	Extech Moisture meter M0297 or
		Extech clamp meter EX845	Extech clamp meter EX845	Extech clamp meter EX845
Data communication interfa				
Bluetooth [®] , WiFi	N/A	Yes	Yes	Yes
Video streaming/recording				
Non-radiometric IR-video	N/A	MPEG4 to memory card	MPEG4 to memory card	MPEG4 to memory card
recording				
Radiometric IR-video	N/A	Full dynamic to PC using USB	Full dynamic to PC using USB	Full dynamic to PC using USB
streaming				
streaming Non-radiometric IR-video	N/A	Uncompressed colorized video	Uncompressed colorized video	Uncompressed colorized video

General

Imaging Performance	
FOV / Minimum focus distance	25° × 19° / 0.4 m
Spectral range	7.5–13 μm 60 Hz
Image frequency	
Focus	Manual
Focal Plane Array (FPA)	Uncooled microbolometer
Image presentation	
Display	Built-in 3.5" LCD touch screen, 320 × 240 pixels
Measurement	
Accuracy	±2 °C or ±2% of reading
Measurement analysis	
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Emissivity correction	Variable from 0.01 to 1.0 or selected from list of materials
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
lsotherm	Detect high/low temperature/interval
Set-up	
Image controls	Palettes (Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC), image adjustment (auto/manual)
Set-up controls	Local adaptation of units, language, date and time formats; automatic shutdown , display intensity
·	Local adaptation of units, ranguage, date and unite formats, automatic shutdown , display intensity
Image storage	
Format	Standard JPEG - including measurement data on SD memory card
Туре	IR/visual images; simultaneous storage of visual and IR images
Power	
Battery type	Lithium-Ion (field replaceable) - 4 hours operating time
Charging system	In camera, AC adaptor, 2-bay charger or 12 V from a vehicle
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adaptor, 90-260 V AC
Adaptor voltage	12 V output to camera
Environmental specifications	
Operating temperature range	-15 to +50 °C
Storage temperature range	-40 to +70 °C
Humidity	IEC 60068-2-30/24 h 95% relative humidity +25 °C to +40 °C / 2 cycles
Shock / Vibration	25 g (IEC 60068-2-29) / 2 g (IEC 60068-2-6)
Encapsulation	IP 54 (IEC 60529)
Data communication interfaces	
Interfaces	USB-mini, USB-A, Composite video
USB	USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4
Physical characteristics	
T hysical characteristics	0.825 kg
Comoro woight incl bottom	
Camera weight, incl. battery	Ū.
Camera size (L \times W \times H)	246 × 97 × 184 mm
Camera size (L × W × H) Shipping size	246 × 97 × 184 mm 560 x 370 x 190 mm
Camera size (L \times W \times H)	246 × 97 × 184 mm

FLIR E30, FLIR E40, FLIR E50 or FLIR E60: Hard transport case, Thermal imaging camera with lens, Battery, Hand strap, Calibration certificate, FLIR Tools™ PC software CD-ROM, Memory card, Lens cap, Power supply incl. multiplugs, Printed Getting Started Guide, Printed Important Information Guide, USB cable, User documentation CD-ROM, Video cable, Warranty extension card or Registration card





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* After product registration on www.flir.com

