

## FLIR E-Series

Compact Infrared Cameras with On-board Visual Camera, Wi-Fi Connectivity, P-i-P and Bright LED Light

Presenting the best performance and value in compact thermal imaging cameras ever, designed to fit beautifully into your IR inspection program, budget, and the palm of your hand. E-Series cameras offer:

**Superior Thermal Imaging** – Up to 76,800 pixels (320 x 240) for better long-range accuracy and the highest level of point & shoot camera IR resolution

**Improved Digital Camera** – 3.1 megapixel resolution provides clearest visible light pictures in its class and includes bright LED lamp that doubles as a flashlight (2 megapixel for E30 model)

**Large Landscape Touchscreen** – Brighter than other brands, the E-Series touchscreen provides an intuitive interface that takes full advantage of the entire 3.5" display for easy access to on-screen diagnostics tools

**New! Wi-Fi Connectivity\*** – Send images and data to an iPhone®, iPad®, iPod touch®, or Android™ to share images and critical information quickly using FLIR Tools Mobile app

**Accurate Temperature Measurements** – Accuracy calibrated within  $\pm 2^{\circ}\text{C}$  or 2% of reading to meet the standard you can always trust FLIR to deliver

**Scalable P-i-P and Thermal Fusion\*** – Overlay thermal and visible images for easy location identification and clearer documentation (E50 and E60 only. E40 with fixed picture-in-picture)

**Multiple Measurements** – Add up to 3 box areas and 3 moveable spots using the touchscreen to gather more detailed temperature information (1 box area and 1 spot for E30 model)

**MeterLink\*** – Wirelessly transmit vital diagnostic data from clamp and moisture meters directly to the camera for annotating thermal images to further support findings and decisions

**Annotation\*** – Add voice comments via Bluetooth headset and text notes from the touchscreen keypad

**InstantReport** – Generate a professional PDF document directly from the camera right on site (preloaded on E60 only)

**Includes** – Memory Card with adapter (stores >1000 Radiometric JPEG images), Li-Ion rechargeable battery, power supply, USB cable, video cable, hand strap, camera lens cap, hard case, and standard FLIR Tools software CD-ROM

\*Not available on E30

Kits available with PRO Software Bundle. See back for details.



Wi-Fi Connectivity



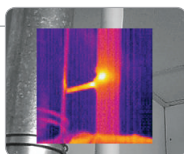
Large 3.5" Touchscreen



Visible Light Pictures  
Align with Thermal  
Images: 3.1MP Digital  
Camera, LED Lamp,  
and Laser Pointer



Large Backlit Buttons  
For Easy Push Button  
Operation



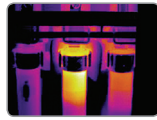
Picture-in-Picture  
(P-i-P) Display



Wireless METERLink™  
Communication via  
Bluetooth®



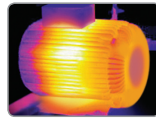
## Applications



Electrical: Hot Fuses



Motor: Internal Winding Problem



Motor: Bearing Problem

## Imaging Specifications

FEATURES	FLIR E30	FLIR E40	FLIR E50	FLIR E60
Temperature range	-4 to 662°F (-20 to 350°C)	-4 to 1202°F (-20 to 650°C)	-4 to 1202°F (-20 to 650°C)	-4 to 1202°F (-20 to 650°C)
Thermal sensitivity (N.E.T.D)	<0.1°C at 30°C	<0.07°C at 30°C	<0.05°C at 30°C	<0.05°C at 30°C
Detector Type - Focal plane array; (FPA) uncooled microbolometer	160 x 120 pixels	160 x 120 pixels	240 x 180 pixels	320 x 240 pixels
Picture-in-Picture (P-i-P)/Fusion	—	Fixed P-i-P	Scalable P-i-P/Thermal Fusion	Scalable P-i-P/Thermal Fusion
MPEG 4 Video Recording	—	Yes	Yes	Yes
Video Camera w/Lamp	2MP/Bright LED Lamp	3.1MP/Bright LED Lamp	3.1MP/Bright LED Lamp	3.1MP/Bright LED Lamp
Digital Zoom	—	2X Continuous	4X Continuous	4X Continuous
Image annotation	—	Voice (60s)/Text Comments	Voice (60s)/Text Comments	Voice (60s)/Text Comments
Moveable Spot	1 Spotmeter	3 Spotmeters	3 Spotmeters	3 Spotmeters
Area Box	1 Area Box	3 Area Boxes (full image with min/max/avg)	3 Area Boxes (full image with min/max/avg)	3 Area Boxes (full image with min/max/avg)
Delta T	—	Yes	Yes	Yes
Data Communication Interface	USB-mini, USB-A, Composite Video	USB-mini, USB-A, Composite Video, Bluetooth, Wi-Fi	USB-mini, USB-A, Composite Video, Bluetooth, Wi-Fi	USB-mini, USB-A, Composite Video, Bluetooth, Wi-Fi
COMMON FEATURES				
Frame Rate	60Hz			
Field of view / Focus	25° x 19° / Manual (Minimum focus distance 1.3ft/0.4m)			
Spectral range	7.5 to 13µm			
Display	Built-in 3.5" color LCD			
Image modes	Thermal, visual, and image gallery			
Image Storage	>1000 radiometric JPEG images (SD card memory)			
Laser Classification/Type	Class 2/Semiconductor AlGaInP Diode Laser: 1mW/635nm (red)			
Set-up controls	Mode selector, color palettes, configure image info, units, language, date and time formats, and image gallery			
Measurement modes	Auto hot/cold spot, Isotherm (above/below/interval)			
Measurement Correction	Reflected ambient temperature & emissivity correction			
Battery Type/Operating Time	Li-Ion/ >4 hours, Display shows battery status			
Charging system	In camera AC adapter/2 bay charging system			
Shock/Vibration/Drop / Encapsulation; Safety	25G, IEC 60068-2-29/ 2G, IEC 60068-2-6/ Drop-proof 2m (6.6ft) IP54; EN/UL/CSA/PSE 60950-1			
Dimensions/Weight	9.7x3.8x7.2" (246x97x184mm)/<1.82lbs (825g), including battery			

## Ordering Information

49001-1801 .....	FLIR E30 Thermal Imaging Infrared Camera (160x120)
49001-1801-KIT .....	FLIR E30 with PRO Software Bundle
49001-2001 .....	FLIR E40 Thermal Imaging Infrared Camera (160x120)
49001-2001-KIT .....	FLIR E40 with PRO Software Bundle
49001-2101 .....	FLIR E50 Thermal Imaging Infrared Camera (240x180)
49001-2101-KIT .....	FLIR E50 with PRO Software Bundle
49001-0602 .....	FLIR E60 Thermal Imaging Infrared Camera (320x240)
49001-0602-KIT .....	FLIR E60 with PRO Software Bundle

### ACCESSORIES

T197752 .....	Li-Ion Rechargeable Battery
T910814 .....	AC Adapter Charger (110-240V, U.S. Plug)
T910490 .....	Cigarette Lighter Adapter Kit, 12VDC (1.2m cable)
T198125 .....	2-Bay Battery Charger including Power Supply (multi plugs)
T197771 .....	Bluetooth® Headset
T197717 .....	FLIR Reporter Professional Analysis Software
T196961 .....	15° Telephoto Lens
T196960 .....	45° Wide Angle Lens
T197926 .....	Tripod adapter
T127100 .....	Sunshield
T911087 .....	Pouch

### Camera Kits with PRO Software Bundle

Increase the power of the camera data by adding a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step instructions combining all IR inspection data - infrared and visual images, temperature measurements, and text notes - into a professional, easy-to-interpret maintenance report.



10-Year Detector Protection  
5-Year Battery  
2-Year Parts & Labor



### BOSTON

FLIR Systems, Inc.  
PH: +1 866.477.3687  
PH: +1 978.901.8000

### PORTLAND

Corporate Headquarters  
FLIR Systems, Inc.  
PH: +1 866.477.3687

### CANADA

FLIR Systems, Ltd.  
PH: +1 800.613.0507

### MEXICO/LATIN AMERICA

FLIR Systems Brasil  
Av. Antonio Bardella  
PH: +55 15 3238 8070

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. Imagery used for

www.flir.com