





BRILLIANCE AT WORK

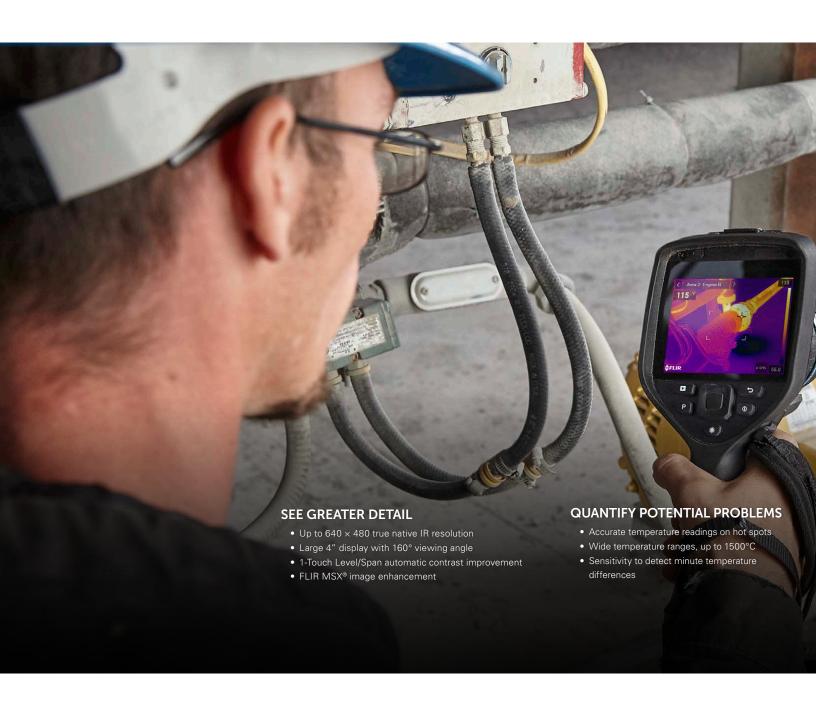


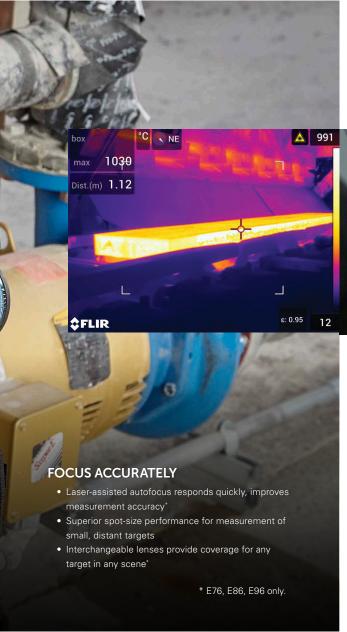
For inspection and maintenance professionals, the most valuable tools are the ones that help them identify problems, improve reliability, and avoid unexpected downtime. Routine facility-wide surveys with a rugged, handheld Exx-Series camera can ensure inspectors spot overheating equipment early, so they can diagnose the issue and begin repairs before equipment fails.

FLIR EXX-SERIES CAMERAS OFFER:

- Up to 640 × 480 thermal resolution so inspectors can work a safe distance from potentially hazardous targets
- Laser distance meter* for measurement information and crisp, accurate focus
- Onboard inspection routing that runs preset survey plans, so you can work more efficiently and keep data organized
- Instant connection to the FLIR Ignite Cloud for direct image uploads and sharing
- Brilliant, easy-to-interpret imagery thanks to our best MSX® image enhancement and the power of UltraMax® image processing
- Compatibility with FLIR Thermal Studio Suite reporting software

* E76, E86, E96 only.

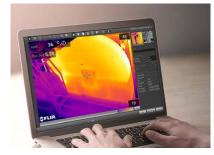




UNPARALLELED PERFORMANCE



The Exx-Series is packed with the high performance features you need to quickly find and report hidden hot spots: razor-sharp focus, a rapid response user interface, and easy connection to Wi-Fi so you can upload, organize, and share images directly from the camera.



NAVIGATE SCREENS EASIER

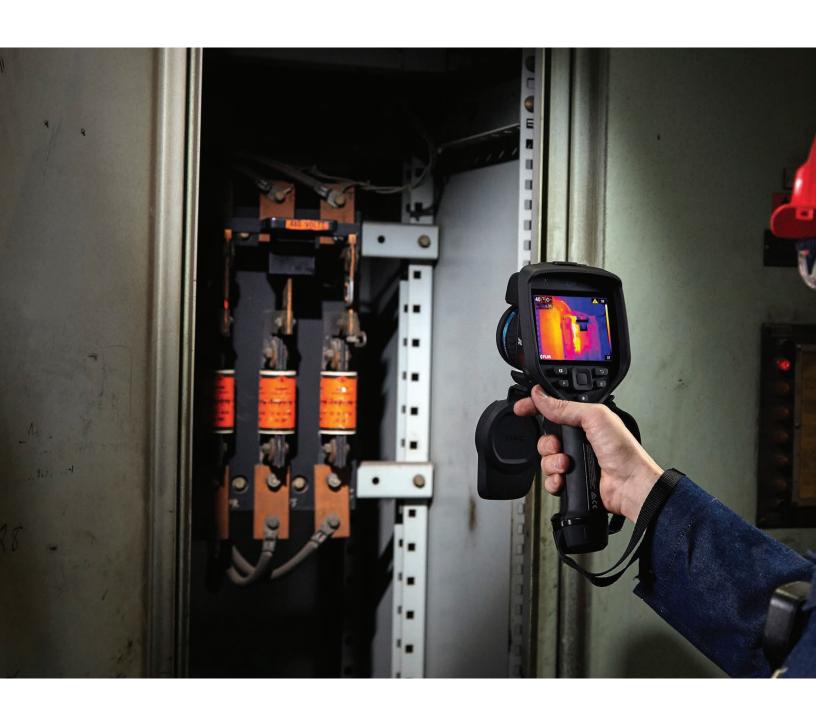
- Quick response capacitive touchscreen
- The latest FLIR user interface with improved flow and feedback
- Logical navigation on screen and in menus

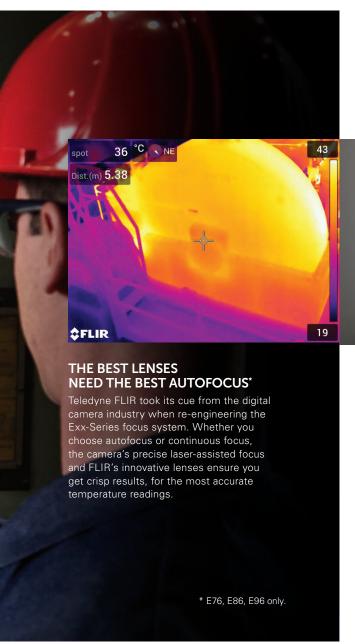
REPORT PROBLEMS QUICKLY

- FLIR Ignite[™] Cloud allows you to upload and maintain images in one safe, easily-accessible location
- Pre-planned inspection routes—run from the camera—ensure no wasted time during a full day of surveying
- FLIR Thermal Studio Software provides enhanced image analysis and reporting









IMPROVE ACCURACY AND EFFICIENCY



MULTIPLE TARGETS, ONE SOLUTION

Not every target is large enough or close enough for proper measurement with a single lens. That's why FLIR designed the Exx-Series with interchangeable* 24°, 42°, and 14° lenses—so you can use the same camera for every target you survey. The camera auto-calibrates with each new lens to ensure it produces high-quality images and precise thermal measurements.

TAILORED TO YOUR SYSTEMS

Exx-Series cameras produce standard radiometric JPEGs that can be opened and viewed without proprietary software. These images can be viewed and edited in FLIR Thermal Studio Suite, and are supported by FLIR's Software Development Kit (ATLAS SDK). This allows companies to use their own Computerized Maintenance Monitoring Systems (CMMS) and still support read-out of thermal measurements, METERLiNK® data, GPS, compass, and other important parameters embedded within the image.

TECHNICAL SPECIFICATIONS

Features by Camera	E54	E76	E86	E96
Infrared Resolution	320 × 240 (76,800 pixels)		464 x 348 (161,472 pixels)	640 × 480 (307,200 pixels)
UltraMax®	No	307,200 pixels	645,888 pixels	1.2 Megapixels
Thermal Sensitivity/NETD	<40 mK @ 30°C (86°F)	<40 mK @ 30°C (86°F) for 24° lens		
Spatial Resolution (IFOV)	1.31 mr	ad/pixel	0.90 mrad/pixel 0.66 mrad/pixel	
Object Temperature Range	-20°C to 120°C (-4°F to 248°F), 0°C to 650°C (32°F to 1202°F)	-20°C to 120°C (-4°F to 248°F), 0°C to 650°C (32°F to 1202°F); optional 300°C to 1000°C (572°F to 1832°F)	-20°C to (-4°F to 0°C to (32°F to 300°C to (572°F to	248°F), 650°C 1202°F), 1500°C
Field of View	24° × 18°	Lens dependent		
Focal Length	17 mm (0.67 in.)	Lens dependent		
Focus	Manual	Continuous LDM, One-shot LDM, One-shot contrast, Manual		
Digital Zoom	1-4× continuous			1–8× continuous
Time-lapse (infrared)	No		10 seconds to 24 hours (infrared)	
Laser Alignment	NA	Position is automatically displayed on the infrared image		
Laser Area Measurement	N.	A Yes		
Laser Distance Measurement	NA	Yes, on-screen		
Laser	Class 2 laser pointer	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance		
Measurement Presets	No measurements, Center spot, Hot spot, Cold spot, 3 spots, Hot spot-spot	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2		
Area Meter	1 in live mode	3 in live mode		
Picture-in-Picture	Centered infrared area on the visual image	Resizable and movable		

Common Features			
Detector Type and Pitch	Uncooled microbolometer/17 µm		
Spectral Range	7.5–14 µm		
Image Frequency	30 Hz		
F-Number	f/1.3		
Lens Identification	Automatic		
Image Presentation and Mode			
Display	4", 640 × 480 pixel touchscreen LCD with auto-rotation		
Resolution	5 MP, 53° × 41° FOV		
Color Palettes	Arctic, White hot, Black hot, Iron, Lava, Rainbow, Rainbow HC		
Image Modes	Infrared, visual, MSX®, Picture-in-picture		
MSX®	Embosses visual details on full-resolution thermal image		
Measurement and Analysis			
Accuracy	±2°C (±3.6°F) or ±2% of reading for ambient temperature 15°C to 35°C (59°F to 95° and object temperature above 0°C (32°F)		
Spotmeter	3 in live mode		
Alarms	Moisture, insulation, and measurement		
Color Alarm (Isotherm)	Above/below/interval/condensation/insulation		
Compass, GPS	Yes, automatic GPS image tagging		
METERLINK®	Yes, several readings		
Inspection Mode and Softwar	e		
FLIR Inspection Route	Enabled in the camera		
Compatible Analysis Software	FLIR Thermal Studio Suite, including FLIR Route Creator plug-in		
Storage of images			
Storage Media	Removable memory: SD card (8 GB)		
Cloud Storage	FLIR Ignite Cloud services		
Image File Format	Standard JPEG with measurement data included		
Video Recording and Streamir	10		
Radiometric IR Video Recording	Real-time radiometric recording (.csg)		
Non-Radiometric IR or Visual Video	H.264 to memory card		
Radiometric IR Video Streaming	Over UVC		
Non-Radiometric IR Video Streaming	H.264 or MPEG4 over Wi-Fi: MJPEG over UVC or Wi-Fi		
Additional Data			
Battery Type	Li-ion battery, charged in camera or on separate charger		
Battery Operating Time	Approx. 2.5 hours at 25°C (77°F) and typical use		
Operating Temperature Range	-15°C to 50°C (5°F to 122°F)		
Shock/Vibration/Drop; Safety	25 g (IEC 60068-2-27) / 2 g (IEC 60068-2-6) / Designed for 2 m (6.6 ft) drop; camera safety IEC/EN 60950-1, IEC/EN 62368-1		
Weight/Dimensions	1 kg (2.2 lb), 27.8 × 11.6 × 11.3 cm (11.0 × 4.6 × 4.4 in)		
Box Contents	Infrared camera with lens, battery (2 ea), battery charger, front protection, straps (hal wrist), hard transport case, lanyards, lens caps, lens cleaning cloth, power supplies 8 GB SD card, Torx wrench, cables (USB 2.0 A to USB Type-C, USB Type-C to USI Type-C to HDMI), FLIR Thermal Studio Starter, documentation		

Exx-Series cameras are backed by FLIR's industry-leading warranty

2 years: Full protection, parts, labor 5 years: Battery 10 years: Detector







FLIR TOTAL SOLUTION

TRAINING



Get thermography certification through the Infrared Training Center (ITC) to increase your understanding of thermal imaging and make surveying more efficient.

Our courses include:

- * Levels I, II and III Thermography Certification
- * Levels I and II Electrical Thermography
 Certification
- * IR Electrical Inspection Training

Certification as a Level I thermographer ensures you understand how to use the camera; Level II cranks up your credibility with more in-depth concepts; and Level III ensures you have the skills to administer your company's thermography program.

SOFTWARE



FLIR Thermal Studio Pro, FLIR Ignite Cloud storage, and FLIR route management provide the total solution your team needs to streamline inspections, analysis, and reporting.

FLIR Thermal Studio Pro: Build an efficient survey roadmap with the FLIR Route Creator software plugin, then download and run it using the Inspection Route feature on your camera. Once your inspection is complete, bring the images back into FLIR Thermal Studio for processing, analysis, and reporting.

FLIR Ignite: Upload images wirelessly to this cloud-based service, which automatically manages the safe and secure back-up of vour data.

SERVICE AND SUPPORT



Regular maintenance and calibration from FLIR's service professionals is the best way to ensure your camera is operating within specification for accurate results, working reliably, and helping you reduce downtime.

FLIR Service is 9001:2008 certified and our exclusive 14-Point Inspection and Calibration program uses temperature references that are calibrated annually and traceable to the National Institute of Standards and Testing.

We also offer 24/7 global technical support in a wide range of languages, so you can be sure to get the help you need when you need it. Specifications are subject to change without notice ©2022 Teledyne FLIR, LLC. All other brand and product names are trademarks of their respective owners. The images displayed may not be representative of the actual resolution of the camera shown. Images for illustrative purposes only.

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