



# BRILLIANCE AT WORK

FLIR redesigned the Exx-Series from the handle up to deliver the best performance, resolution, and sensitivity of any pistol-grip handheld thermal camera.

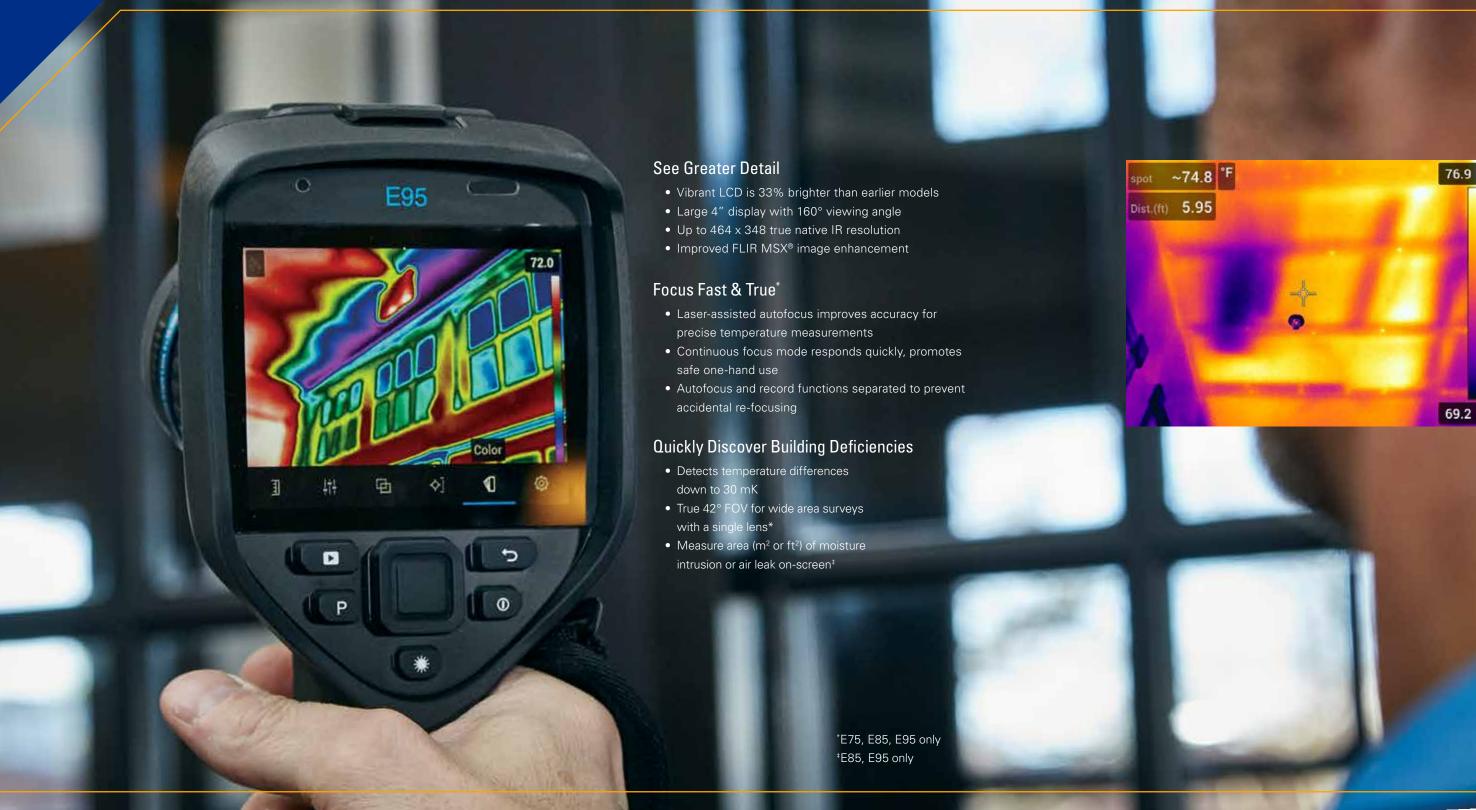
The new Exx-Series camera is packed with the features you need to detect the early signs of water intrusion, air leaks, and other building deficiencies before they cause serious damage.

## FLIR Exx-Series cameras now offer:

- Up to 161,472 points of measurement
- UltraMax® processing for 4x pixel resolution\*
- Our best MSX® enhancement
- Laser distance meter improves autofocus, provides distance and on-screen area measurement<sup>‡</sup>
- A larger, 4" display that's 33% brighter
- A responsive new interface
- Improved organization and reporting options

\*Not available for E53 model

<sup>‡</sup> E85/E95 only



# UNPARALLELED PERFORMANCE



The Exx-Series is packed with the high performance features you need to quickly detect and report hidden building deficiencies: superior temperature sensitivity; bright, bold on-screen imagery; razor-sharp focus; and a rapid-response user interface.



## Navigate Screens Easier

- Quick response capacitive touchscreen
- Updated GUI with improved flow and feedback
- Logical navigation on screen and in menus

## **Document & Report Problems**

- Embed moisture meter data through METERLINK®
- Upload images and report critical issues over Wi-Fi
- Image annotation through voice, text, on-screen sketch, GPS tagging, and compass
- Enhanced image analysis and reporting through FLIR Tools+ software



# The Best Lenses Need the Best Autofocus\* FLIR took its cue from the digital camera industry when re-engineering the Exx-Series focus system. Whether you choose autofocus or continuous focus, the camera's precise laser-assisted focus and FLIR's innovative lenses ensure you get crisp results, for the most accurate temperature readings.' \*E75, E85, E95 only

# DESIGNED WITH YOU IN MIND



## Work Safer

Your job can take you up ladders and into crawl-spaces, so you need tools that can be used one-handed and worry-free. FLIR designed its new Exx-Series cameras to be tough enough to use every day, with simplified buttons and intuitive screens that allow you to focus on your work – instead of on the camera controls.

## Work Smarter

The new Exx-Series cameras produce standard radiometric JPEGs that can be opened and viewed without proprietary software. Image files produced by Exx-Series cameras are supported by FLIR's Software Development Kit (ATLAS SDK), so companies can use their own software and still support read-out of thermal measurements, METERLiNK® data, and other important parameters embedded within the image. Current and voltage measurements embedded in image files are also accessible.

Features By Camera	E53	E75	E85	E95
IR Resolution	240 × 180	320 × 240	384 × 288	464 × 348
	(43,200 pixels)	(76,800 pixels)	(110,592 pixels)	(161,472 pixels)
UltraMax®	_	307,200 pixels	442,368 pixels	645,888 pixels
Object Temperature Range	-20°C to 120°C (-4°F to 248°F)	-20°C to 120°C (-4°F to 248°F)	-20°C to 120°C (-4°F to 248°F)	-20°C to 120°C (-4°F to 248°F)
	0°C to 650°C (32°F to 1200°F)	0°C to 650°C (32°F to 1200°F)	0°C to 650°C (32°F to 1200°F)	0°C to 650°C (32°F to 1200°F)
		Optional 300°C to 1000°C (572°F to 1830°F)	300°C to 1200°C (572°F to 2192°F)	300°C to 1500°C (572°F to 2732°F)
Focus	Manual	Continuous, one-shot laser distance meter (LDM), one-shot contrast, manual	Continuous, one-shot laser distance meter (LDM), one-shot contrast, manual	Continuous, one-shot laser distance meter (LDM), one-shot contrast, manual
Field of View (FOV)	24° × 18°	42° × 32° (10 mm lens), 24° × 18° (18 mm lens), 14° × 10° (29 mm lens)	42° × 32° (10 mm lens), 24° × 18° (18 mm lens), 14° × 10° (29 mm lens)	42° × 32° (10 mm lens), 24° × 18° (18 mm lens), 14° × 10° (29 mm lens)
Lens Identification	_	Automatic	Automatic	Automatic
Time-lapse (Infrared)	_	_	_	10 sec to 24 hours
Laser Area Measurement	_	_	Yes	Yes
Laser Distance Measurement	_	Yes, on-screen	Yes, on-screen	Yes, on-screen
Measurement Presets	No measurement, center spot, hot spot, cold spot, 3 spots, hot spot-spot*	No measurement, center spot, hot spot, cold spot, User Preset 1, User Preset 2	No measurement, center spot, hot spot, cold spot, User Preset 1, User Preset 2	No measurement, center spot, hot spot, cold spot, User Preset 1, User Preset 2
Spotmeter	3 in live mode	1 in live mode	3 in live mode	3 in live mode
Area	1 in live mode	1 in live mode	3 in live mode	3 in live mode
Picture-in-Picture	Centered infrared area on the visual image	Resizable and movable	Resizable and movable	Resizable and movable

<sup>\*</sup>Hot spot to center spot Delta measurement

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

2 years: Full protection, parts, labor

5 years: Battery 10 years: Detector







LEARN MORE ABOUT EXX-SERIES CAMERAS AT WWW.FLIR.COM/EXX-BUILDING



Common Features				
Detector Type and Pitch	Uncooled microbolometer, 17 µm			
Thermal Sensitivity/NETD	<0.04°C @ 30°C (86°F), 24° lens			
Spectral Range	7.5 – 14.0 µm			
Image Frequency	30 Hz			
F-Number	f/1.3, 24° lens			
Digital Zoom	1-4x continuous			
Image Presentation an	d Modes			
Display	4", 640 × 480 pixel touch screen LCD with auto-rotation			
Digital Camera	5 MP. 53° × 41° FOV			
Color Palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC			
Image Modes	Infrared, visual, MSX®, Picture-in-Picture			
MSX®	Embosses visual details on full resolution thermal image			
Measurement and Ana	Ÿ			
Accuracy	±2°C (±3.6°F) or ±2% of reading for ambient temperature 15°C to 35°C (59°F to 95°F) and object			
Accuracy	temperature above 0°C (32°F)			
Alarms	Moisture alarm, insulation alarm, measurement alarms			
Color Alarm (Isotherm)	Above/below/interval/condensation/insulation			
Compass, GPS	Yes; automatic GPS image tagging			
METERLINK®	Yes; several readings			
Laser Pointer	Yes; dedicated button			
Image Storage	100, dealected sector			
Storage Media	Removable SD card (8 GB)			
Image File Format	Standard JPEG with measurement data included			
Video Recording and S				
Radiometric IR Video Recording	Real-time radiometric recording (.csq)			
Non-Radiometric IR or Visual	H.264 to memory card			
Video	11.204 to memory card			
Radiometric IR Video	Yes, over UVC or Wi-Fi			
Streaming	155, 515, 515 51 711 11			
Non-Radiometric IR Video	H.264 or MPEG-4 over Wi-Fi; MJPEG over UVC or Wi-Fi			
Streaming				
Communication Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort			
Video Out	DisplayPort over USB Type-C			
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) ambient temperature and typical use			
Operating Temperature	-15°C to 50°C (5°F to 122°F)			
Range				
Storage Temperature Range	-40°C to 70°C (-40°F to 158°F)			
Shock/Vibration/	25 g / IEC 60068-2-27, 2 g / IEC 60068-2-6, IP 54 /IEC 60529; EN/UL/CSA/PSE 60950-1			
Encapsulation; Safety				
Weight/Dimensions	1 kg (2.2 lbs), 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 (hand, 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 USB Type-C, USB Type-C to HDMI)			

# TECHNICAL SPECIFICATIONS



## The Infrared Training Center

In a greater your knowledge about thermal imaging, the greater the dividends you'll realize for your company and your career. That's why the Infrared Training Center (ITC) offers classes for practically every application, from free online courses to advanced training that can certify you as a thermography expert, qualifying you to take a leadership role in your internal IR program.

C classes include:

- Thermography Fundamentals Training
- IR Building Inspection
- IR Roofing Inspection

## Thermography Certification Training

Level I certifies that you know how a thermal imager works and how to use it. Level II cranks your credibility up a notch with more in-depth concepts and intensive labs. Level III asserts that you have knowledge and skills to administer your company's thermography program. These certifications offer strong validation to support the work you do as a thermographer.

Mobile Training Units and on-site training at your facility are encouraged if you would like to certify a group of 10 or more. For a complete list and schedule of courses and more information, visit www.infraredtraining.com or call 1.866.872.4647.

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