FLIR
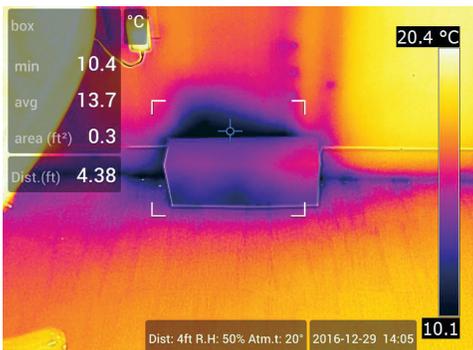
FLIR EXX-SERIES™

The FLIR E75, E85, E95, and the entry-level E53 Advanced Thermal Imaging Cameras bring superior sensitivity and a true 42° field of view* together in a user-friendly, handheld platform. These cameras feature a vibrant 4" LCD that makes it easy to spot the subtle indications of building deficiencies and moisture intrusion. With built-in tools such as laser-assisted autofocus*, on-screen area measurement†, and Wi-Fi capability, the FLIR Exx-Series will help you quantify and document air leaks, moisture, and other building problems.

www.flir.com/Exx-Series

Find Hidden Deficiencies
Uncover hard-to-find building envelope deficiencies and moisture penetration

- Detects temperature differences down to 0.03°C for early identification of air leaks and moisture
- MSX® image enhancements add perspective to scenes, with edge detail on windows and doors
- The true 42° field of view* (FOV) standard lens allows for surveys of wide areas with a single lens
- Measure the area (m² or or ft²) of moisture intrusion on screen† with data from laser-assisted autofocus*

Document Problems Quickly
Report problems in buildings for insurance claims, pre-insurance audits, and inspections

- Built-in voice annotation and customizable work folders makes finding and documenting problems easier and more efficient
- Connect over Wi-Fi to the FLIR Tools mobile app for faster reporting and sharing of images
- Append images with FLIR moisture meter data via the METERLiNK® connection
- Streamlined reporting features through FLIR Tools+ simplifies insurance claims and inspection paperwork

Inspect More Efficiently
FLIR designed all four Exx-Series cameras to make your work faster, safer, and more efficient

- Vibrant, 4" touchscreen with 160° viewing angle
- Comfort-designed handle and convenient buttons enable safe, one-handed operation
- Rugged, water-tight chassis and scratch-resistant Dragontrail™ cover glass
- Backed by FLIR's industry-leading 2-5-10 warranty

*E75, E85, E95 models
†E85, E95 models

SPECIFICATIONS

Features By Camera	E53	E75	E85	E95
IR Resolution	240 × 180 (43,200 pixels)	320 × 240 (76,800 pixels)	384 × 288 (110,592 pixels)	464 × 348 (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) 0°C to 650°C (32°F to 1200°F)	-20°C to 120°C (-4°F to 248°F) 0°C to 650°C (32°F to 1200°F) Optional 300°C to 1000°C (572°F to 1830°F)	-20°C to 120°C (-4°F to 248°F) 0°C to 650°C (32°F to 1200°F) 300°C to 1200°C (572°F to 2192°F)	-20°C to 120°C (-4°F to 248°F) 0°C to 650°C (32°F to 1200°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)
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	3 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

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
Lens Identification	Automatic
Digital Zoom	1-4x continuous

Image Presentation and 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 Analysis

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 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

Storage Media	Removable SD card (8 GB)
Image File Format	Standard JPEG with measurement data included

Video Recording and Streaming

Radiometric IR Video Recording	Real-time radiometric recording (.csq)
Non-Radiometric IR or Visual Video	H.264 to memory card
Radiometric IR Video Streaming	Yes, over UVC or Wi-Fi
Non-Radiometric IR Video Streaming	H.264 or MPEG-4 over Wi-Fi; MJPEG over UVC or Wi-Fi
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 Range	-15°C to 50°C (5°F to 122°F)
Storage Temperature Range	-40°C to 70°C (-40°F to 158°F)
Shock/Vibration/ Encapsulation; Safety	25 g / IEC 60068-2-27, 2 g / IEC 60068-2-6, IP 54 /IEC 60529; EN/UL/CSA/PSE 60950-1
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)

‡Hot spot to center spot Delta measurement

Specifications are subject to change without notice.
For the most up-to-date specs, go to www.flir.com

FLIR | The World's Sixth Sense®