

A man in a brown jacket is holding a FLIR thermal imager, looking through the viewfinder. The background is a snowy field with trees. The text "ADVANCED THERMAL IMAGING" is overlaid in large white letters, and "REIMAGINED FROM THE HANDLE UP" is in smaller orange letters below it. The FLIR logo is at the bottom center.

# ADVANCED THERMAL IMAGING

REIMAGINED FROM THE HANDLE UP

*FLIR Exx-Series™*







# 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
- On-screen area measurement\*
- A larger, 4" display that's 25% brighter
- A responsive new interface
- Improved organization and reporting options

\*E85/E95 only



### See Greater Detail

- Vibrant LCD is 25% brighter than earlier models
- Large 4" display with 160° viewing angle
- Up to 464 x 348 true native IR resolution
- Improved FLIR MSX® image enhancement

### Focus Fast & True

- Laser-assisted autofocus improves accuracy for precise temperature measurements
- Continuous focus mode responds quickly, promotes safe one-hand use
- Autofocus and record functions separated to prevent accidental re-focusing

### Document & Report Problems

- Embed clamp and multi-meter data through METERLINK®
- Upload images and report critical issues over Wi-Fi
- Streamlined reporting features speeds documentation



# 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 touch screen
- Updated GUI with improved flow and feedback
- Logical navigation on screen and in menus

## Quickly Discover Building Deficiencies

- Detects temperature differences down to 30 mK
- True 42° FOV for wide area surveys with a single lens
- Measure area (m<sup>2</sup> or ft<sup>2</sup>) of moisture intrusion or air leak on-screen\*

\*E85, E95 only



Vibrant, 4" optically-bonded  
PCAP touchscreen

Scratch-resistant  
Dragontrail™ cover glass

Li-ion battery for  
extended use times



Ergonomic new design for  
our most comfortable grip

FLIR Exx-Series™



True 42° FOV for wide area surveys with a single lens

The image shows a black FLIR Exx-Series thermal imager. It has a rugged, handheld design with a textured grip. The front features a lens assembly with a blue stripe. The FLIR logo is visible on the side. Callout lines point to specific features: the lens, a button on the side, and the camera/detector area.

Digital camera moved closer to thermal detector for superior MSX® enhancements

Separate Autofocus and Image Recording buttons

# HARD-WORKING DESIGN, FOR HARD-WORKING PROS

This sleek new design isn't just window-dressing. From the rubberized, water-tight chassis to the scratch-resistant Dragontrail™ cover glass LCD, the new Exx-Series is made to work hard all day long.







# DESIGNED WITH YOU IN MIND



## 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 focusing algorithm and FLIR's innovative lenses ensure you get crisp results, for the most accurate temperature readings.



## 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 Strategic Developers Kit (ATLAS SDK), so companies can use their existing software to store and derive measurements from thermal images. Current and voltage measurements embedded in image files are also accessible.

Features by Camera	E75	E85	E95
IR Resolution	320 x 240	384 x 288	464 x 348
Object Temperature Range	-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)
Time-lapse (Infrared)	No	No	10 sec to 24 hours
Laser Area Measurement	No	Yes	Yes
Spotmeter	1 in live mode	3 in live mode	3 in live mode
Area	No	3 in live mode	3 in live mode

Common Features	Exx-Series
Detector Type and Pitch	Uncooled microbolometer, 17 µm
Thermal Sensitivity/NETD	< 0.03°C @ 30°C (86°F)
Spectral Range	7.5 - 14.0 µm
Image Frequency	30 Hz
Field of View (FOV)	42° x 32° (10 mm lens), 24° x 18° (17 mm lens), 14° x 10° (29 mm lens)
F-Number	f/1.3, f/1.1
Lens Identification	Camera automatically identifies optional lenses without a factory calibration
Focus	Continuous, one-shot laser distance meter (LDM), one-shot contrast, manual
Digital Zoom	1-4x continuous

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

2 years: Full protection, parts, labor

10 years: Detector



\* After product registration on [www.flir.com](http://www.flir.com)

LEARN MORE ABOUT EXX-SERIES CAMERAS AT [WWW.FLIR.COM/EXX-BUILDING](http://WWW.FLIR.COM/EXX-BUILDING)

FLIR **Exx-Series**™

Image Presentation and Modes	
Display	4", 640 x 480 pixel touch screen LCD with auto-rotation
Digital Camera	5 MP, 53° x 41° FOV
Color Palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Image Modes	Infrared, visual, MSX®, Picture-in-Picture
Picture-in-Picture	Resizable and movable
MSX®	Embosses visual details on full resolution thermal image
UltraMax™	Super-resolution process quadruples pixel count, activated in FLIR Tools+
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
Laser Distance Measurement	Yes, on-screen
Measurement Presets	No measurement, center spot, hot spot, cold spot, User Preset 1, User Preset 2
Compass, GPS	Yes; automatic GPS image tagging
METERLiNK®	Yes; several readings
Image Storage	
Storage Media	Removable SD card (8 GB)
Image File Format	Standard radiometric JPEG, 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
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 w/o Lens	1 kg (2.2 lbs), 27.8 x 11.6 x 11.3 cm (11.0 x 4.6 x 4.4 in)
Box Contents	Infrared camera with lens, battery (2 ea), battery charger with power supply, front lens and light protection, straps (hand and wrist), lanyards, lens caps (front and rear), lens cleaning cloth, 15 W3 A power supply, printed documentation, 8 GB SD card, Torx screwdriver, cables (USB 2.0 A to USB Type-C, USB Type-C to HDMI, USB Type-C to USB Type-C)

A close-up, grayscale image of a FLIR MSX camera lens. The lens is circular with concentric rings and a central glass element. The text "FLIR MSX" is visible on the left side of the lens housing.

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