



Quickly detect moisture intrusion and building deficiencies



Quantify problems through on-screen area measurement (m2 or ft2)



One-handed operation with convenient buttons for safe, streamlined use

FLIR Exx-Series

Advanced Thermal Imaging Cameras for Building Applications

FLIR E75, E85, and E95 cameras offer superior sensitivity and a true 42° field of view in a user-friendly, handheld platform. These cameras can detect even subtle indications of building deficiencies and moisture intrusion, and offer on-screen area measurement so you can easily quantify and document air leaks, moisture, and other building problems.

Find Hidden Deficiencies

Uncover hard-to-find building envelope deficiencies and moisture penetration, and measure the area of the damage on-screen.

- Detects temperature differences down to 30 mK for early identification of air leaks and moisture
- MSX® image enhancements add perspective to scenes, with edge detail on windows and doors
- True 42° field of view (FOV) standard lens allows for surveys of wide areas with a single lens
- Measure area (m² or ft²) of moisture intrusion on screen with data from laserassisted autofocus

Document Problems Quickly and Easily

Report problems in building structures for insurance claims, pre-insurance audits, and building inspections.

- Built-in voice annotation and customizable work folders makes finding images easier
- Connect over Wi-Fi to mobile devices or via METERLINK® to FLIR moisture meters
- Streamlined reporting features through FLIR Tools+ simplifies insurance claims and inspection paperwork

Built for Your Rugged Work Environment

FLIR designed the E75, E85, and E95 to make your work faster, safer, and more efficient.

- Vibrant, 4" optically-bonded PCAP 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

Key Features:

- Fast, precise laser-assisted autofocus
- Grip, trigger, and buttons designed for easy one-handed operation
- Sensitive enough to clearly identify hidden building deficiencies
- On-screen area measurement (E85, E95)
- True 42° field of view (FOV)
- Wi-Fi, METERLiNK® connectivity
- Streamlined reporting features



Specifications

Features By Camera	E75	E85	E95
IR Resolution	320 x 240 (76,800 pixels)	384 x 288 (110,592 pixels)	464 x 348 (161,472 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)
object temperature names	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	300°C to 1200°C	300°C to 1500°C
	(572°F to 1830°F)	(572°F to 2192°F)	(572°F to 2732°F)
Time-lapse (Infrared)	No	No	10 sec to 24 hours
Measurement Features by (
Area Measurement Information	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/1.1, f/1.3		
Lens Identification	Automatic		
Focus	Continuous, one-shot laser distance meter (LDM), one-shot contrast, manual		
Digital Zoom	1-4x continuous		
Image Presentation and Mo	des		
Display		onded PCAP touchscreen, with 400	cd/m² surface brightness
Digital Camera	4", 640 x 480 optically-bonded PCAP touchscreen, with 400 cd/m² surface brightness 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	'	riocess quadrupies pixer count, activa	ated III1 EII1 100IS+
Accuracy		ling for ambient temperature 15°C to	35°C (59°E to 95°E) and object
Accuracy	±2 C (±3.6 1) OI ±2 /6 OI lead	temperature above 0°C (32°F)	33 C (39 1 to 93 1) and object
A.I.			
Alarms	Moisture	alarm, insulation alarm, measureme	nt alarms
Alarms Color Alarm (Isotherm)		alarm, insulation alarm, measureme	
Color Alarm (Isotherm)		ve/below/interval/condensation/insul	
Color Alarm (Isotherm) Laser Distance Measurement	Abo	ve/below/interval/condensation/insul Yes, on-screen	ation
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets	Abo	ve/below/interval/condensation/insul Yes, on-screen nter spot, hot spot, cold spot, User P	ation
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS	Abo	ve/below/interval/condensation/insul Yes, on-screen nter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging	ation
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK®	Abo	ve/below/interval/condensation/insul Yes, on-screen nter spot, hot spot, cold spot, User P	ation
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage	Abo	ve/below/interval/condensation/insul Yes, on-screen nter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings	ation
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media	No measurement, ce	ve/below/interval/condensation/insul Yes, on-screen nter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB)	ation reset 1, User Preset 2
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format	No measurement, ce	ve/below/interval/condensation/insul Yes, on-screen nter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings	ation reset 1, User Preset 2
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Stream	No measurement, ce Standard	ve/below/interval/condensation/insul Yes, on-screen nter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat	ation reset 1, User Preset 2 a included
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Stream Radiometric IR Video Recording	No measurement, ce Standard	ve/below/interval/condensation/insul Yes, on-screen Inter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) Inadiometric JPEG, measurement date Real-time radiometric recording (.csq	ation reset 1, User Preset 2 a included
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Streat Radiometric IR Video Recording Non-Radiometric IR	No measurement, ce Standard	ve/below/interval/condensation/insul Yes, on-screen nter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat	ation reset 1, User Preset 2 a included
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Stream Radiometric IR Video Recording Non-Radiometric IR or Visual Video	No measurement, ce Standard	ve/below/interval/condensation/insul Yes, on-screen Inter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat. Real-time radiometric recording (.csq H.264 to memory card	ation reset 1, User Preset 2 a included
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Stream Radiometric IR Video Recording Non-Radiometric IR or Visual Video Radiometric IR Video Streaming	No measurement, ce Standard	ve/below/interval/condensation/insul Yes, on-screen Inter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat Real-time radiometric recording (.csq H.264 to memory card Yes, over UVC or Wi-Fi	ation reset 1, User Preset 2 a included
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Strear Radiometric IR Video Recording Non-Radiometric IR Video Streaming Non-Radiometric IR Video	No measurement, ce Standard	ve/below/interval/condensation/insul Yes, on-screen Inter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat. Real-time radiometric recording (.csq H.264 to memory card Yes, over UVC or Wi-Fi H.264 or MPEG-4 over Wi-Fi	ation reset 1, User Preset 2 a included
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Stream Radiometric IR Video Recording Non-Radiometric IR Video Streaming Non-Radiometric IR Video Streaming	No measurement, ce Standard	ve/below/interval/condensation/insul Yes, on-screen Inter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat. Real-time radiometric recording (.csq H.264 to memory card Yes, over UVC or Wi-Fi H.264 or MPEG-4 over Wi-Fi MJPEG over UVC or Wi-Fi	ation reset 1, User Preset 2 a included
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Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Strear Radiometric IR Video Recording Non-Radiometric IR or Visual Video Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Communication Interfaces Video Out Additional Data Battery Type	No measurement, ce	ve/below/interval/condensation/insul Yes, on-screen Inter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat. Real-time radiometric recording (.csq H.264 to memory card Yes, over UVC or Wi-Fi H.264 or MPEG-4 over Wi-Fi MJPEG over UVC or Wi-Fi USB 2.0, Bluetooth, Wi-Fi DisplayPort over USB Type-C tery, charged in camera or on separate	ation Treset 1, User Preset 2 a included te charger
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Strear Radiometric IR Video Recording Non-Radiometric IR or Visual Video Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Communication Interfaces Video Out Additional Data Battery Type Battery Operating Time	No measurement, ce	ve/below/interval/condensation/insul Yes, on-screen Inter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat. Real-time radiometric recording (.csq H.264 to memory card Yes, over UVC or Wi-Fi H.264 or MPEG-4 over Wi-Fi MJPEG over UVC or Wi-Fi USB 2.0, Bluetooth, Wi-Fi DisplayPort over USB Type-C tery, charged in camera or on separates at 25°C (77°F) ambient temperatur	ation Treset 1, User Preset 2 a included te charger
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Strear Radiometric IR Video Recording Non-Radiometric IR video Streaming Non-Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Communication Interfaces Video Out Additional Data Battery Type Battery Operating Time Operating Temperature Range	No measurement, ce	ve/below/interval/condensation/insul Yes, on-screen Inter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat. Real-time radiometric recording (.csq H.264 to memory card Yes, over UVC or Wi-Fi H.264 or MPEG-4 over Wi-Fi MJPEG over UVC or Wi-Fi USB 2.0, Bluetooth, Wi-Fi DisplayPort over USB Type-C tery, charged in camera or on separates at 25°C (77°F) ambient temperatur -15°C to 50°C (5°F to 122°F)	ation Treset 1, User Preset 2 a included te charger
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Strear Radiometric IR Video Recording Non-Radiometric IR or Visual Video Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Communication Interfaces Video Out Additional Data Battery Type Battery Operating Time Operating Temperature Range Storage Temperature Range	Standard ning Li-ion bat Approx. 2.5 hou	ve/below/interval/condensation/insul Yes, on-screen Inter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement data Real-time radiometric recording (.csq H.264 to memory card Yes, over UVC or Wi-Fi H.264 or MPEG-4 over Wi-Fi MJPEG over UVC or Wi-Fi USB 2.0, Bluetooth, Wi-Fi DisplayPort over USB Type-C tery, charged in camera or on separates at 25°C (77°F) ambient temperatur -15°C to 50°C (5°F to 122°F) -40°C to 70°C (-40°F to 158°F)	ation Treset 1, User Preset 2 a included te charger re and typical use
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Stream Radiometric IR Video Recording Non-Radiometric IR video Streaming Non-Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Communication Interfaces Video Out Additional Data Battery Type Battery Operating Time Operating Temperature Range Storage Temperature Range	Standard ning Li-ion bat Approx. 2.5 hou	ve/below/interval/condensation/insul Yes, on-screen Inter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat. Real-time radiometric recording (.csq H.264 to memory card Yes, over UVC or Wi-Fi H.264 or MPEG-4 over Wi-Fi MJPEG over UVC or Wi-Fi USB 2.0, Bluetooth, Wi-Fi DisplayPort over USB Type-C tery, charged in camera or on separates at 25°C (77°F) ambient temperatur -15°C to 50°C (5°F to 122°F)	ation Treset 1, User Preset 2 a included te charger re and typical use
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Streat Radiometric IR Video Recording Non-Radiometric IR or Visual Video Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Non-Radiometric IR Video Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Communication Interfaces Video Out Additional Data Battery Type Battery Operating Time Operating Temperature Range Storage Temperature Range Shock/Vibration/ Encapsulation; Safety	No measurement, ce Standard Standard Approx. 2.5 hou 25 g / IEC 60068-2-27, 2 g	ve/below/interval/condensation/insul Yes, on-screen Inter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat. Real-time radiometric recording (.csq H.264 to memory card Yes, over UVC or Wi-Fi H.264 or MPEG-4 over Wi-Fi MJPEG over UVC or Wi-Fi USB 2.0, Bluetooth, Wi-Fi DisplayPort over USB Type-C tery, charged in camera or on separates at 25°C (77°F) ambient temperatur —15°C to 50°C (5°F to 122°F) —40°C to 70°C (-40°F to 158°F) I IEC 60068-2-6, IP 54 /IEC 60529;	ation Preset 1, User Preset 2 a included te charger re and typical use EN/UL/CSA/PSE 60950-1
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Stream Radiometric IR Video Recording Non-Radiometric IR video Streaming Non-Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Communication Interfaces Video Out Additional Data Battery Type Battery Type Battery Operating Time Operating Temperature Range Storage Temperature Range Shock/Vibration/ Encapsulation; Safety Weight/Dimensions w/o Lens	No measurement, ce Standard Standard Approx. 2.5 hou 25 g / IEC 60068-2-27, 2 g	ve/below/interval/condensation/insul Yes, on-screen Inter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement data Real-time radiometric recording (.csq H.264 to memory card Yes, over UVC or Wi-Fi H.264 or MPEG-4 over Wi-Fi MJPEG over UVC or Wi-Fi USB 2.0, Bluetooth, Wi-Fi DisplayPort over USB Type-C tery, charged in camera or on separates at 25°C (77°F) ambient temperatur -15°C to 50°C (5°F to 122°F) -40°C to 70°C (-40°F to 158°F)	ation Preset 1, User Preset 2 a included te charger re and typical use EN/UL/CSA/PSE 60950-1
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Stream Radiometric IR Video Recording Non-Radiometric IR video Streaming Non-Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Communication Interfaces Video Out Additional Data Battery Type Battery Type Battery Operating Time Operating Temperature Range Storage Temperature Range Shock/Vibration/ Encapsulation; Safety Weight/Dimensions w/o Lens Box Contents	Abo No measurement, ce Standard ning Li-ion bat Approx. 2.5 hou 25 g / IEC 60068-2-27, 2 g	ve/below/interval/condensation/insul Yes, on-screen Inter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat Real-time radiometric recording (.csq H.264 to memory card Yes, over UVC or Wi-Fi H.264 or MPEG-4 over Wi-Fi MJPEG over UVC or Wi-Fi USB 2.0, Bluetooth, Wi-Fi DisplayPort over USB Type-C tery, charged in camera or on separates at 25°C (77°F) ambient temperatur -15°C to 50°C (5°F to 122°F) -40°C to 70°C (-40°F to 158°F) I IEC 60068-2-6, IP 54 /IEC 60529;	ation Preset 1, User Preset 2 a included a included te charger e and typical use EN/UL/CSA/PSE 60950-1 S x 4.4 in)
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Stream Radiometric IR Video Recording Non-Radiometric IR video Streaming Non-Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Communication Interfaces Video Out Additional Data Battery Type Battery Type Battery Operating Time Operating Temperature Range Storage Temperature Range Shock/Vibration/ Encapsulation; Safety Weight/Dimensions w/o Lens	Standard Standard Li-ion bat Approx. 2.5 hou 25 g / IEC 60068-2-27, 2 g I kg (2.2	ve/below/interval/condensation/insul Yes, on-screen Inter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat. Real-time radiometric recording (.csq H.264 to memory card Yes, over UVC or Wi-Fi H.264 or MPEG-4 over Wi-Fi MJPEG over UVC or Wi-Fi USB 2.0, Bluetooth, Wi-Fi DisplayPort over USB Type-C tery, charged in camera or on separates at 25°C (77°F) ambient temperatur -15°C to 50°C (5°F to 122°F) -40°C to 70°C (-40°F to 158°F) IEC 60068-2-6, IP 54 /IEC 60529; Ibs), 27.8 x 11.6 x 11.3 cm (11.0 x 4.6) (2 ea), battery charger with power su	ation reset 1, User Preset 2 a included a included te charger re and typical use EN/UL/CSA/PSE 60950-1 S x 4.4 in) pply, front lens and light protection,
Color Alarm (Isotherm) Laser Distance Measurement Measurement Presets Compass, GPS METERLINK® Image Storage Storage Media Image File Format Video Recording and Stream Radiometric IR Video Recording Non-Radiometric IR video Streaming Non-Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Communication Interfaces Video Out Additional Data Battery Type Battery Type Battery Operating Time Operating Temperature Range Storage Temperature Range Shock/Vibration/ Encapsulation; Safety Weight/Dimensions w/o Lens Box Contents	No measurement, ce Standard ning Li-ion bat Approx. 2.5 hou 25 g / IEC 60068-2-27, 2 g 1 kg (2.2) Infrared camera with lens, battery straps (hand and wrist), lanyards	ve/below/interval/condensation/insul Yes, on-screen Inter spot, hot spot, cold spot, User P Yes; automatic GPS image tagging Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat Real-time radiometric recording (.csq H.264 to memory card Yes, over UVC or Wi-Fi H.264 or MPEG-4 over Wi-Fi MJPEG over UVC or Wi-Fi USB 2.0, Bluetooth, Wi-Fi DisplayPort over USB Type-C tery, charged in camera or on separates at 25°C (77°F) ambient temperatur -15°C to 50°C (5°F to 122°F) -40°C to 70°C (-40°F to 158°F) I IEC 60068-2-6, IP 54 /IEC 60529;	ation Treset 1, User Preset 2 a included a included te charger e and typical use EN/UL/CSA/PSE 60950-1 5 x 4.4 in) pply, front lens and light protection, ing cloth, 15 W3 A power supply,

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