



Find problems quickly and eliminate costly plant shutdowns



Streamlined data collection and sharing speeds analysis and repairs



One-handed operation with convenient buttons helps maintain workplace safety

FLIR EXX-Series Advanced Thermal Imaging Cameras for Electrical and Mechanical Applications

FLIR E75, E85, and E95 cameras offer the superior resolution and range performance needed to quickly identify hot spots and discover potential points of failure in electrical distribution and mechanical systems. With up to 161,472 pixel resolution and a larger, more vibrant LCD screen than any other pistol-grip thermal camera, the Exx-Series makes it easier than ever to diagnose problems – even at a distance. Avoid costly shutdowns and lost production time through regular predictive maintenance routines with these rugged, intuitive cameras.

Improve Plant Reliability

Equipment failures are costly and can impact on-time delivery, so it's important to have the right tools to find potential problems before they happen.

- High-resolution infrared detectors, up to 464 x 348, for crisp, detailed images
- Wide temperature ranges: -40°C to 120°C, 0°C to 650°C, 300°C up to 1500°C (E95)
- Superior spot-size performance for accurate temperature measurements on smaller, more distant targets
- Laser-assisted autofocus for precise identification of hot spots, even in cluttered scenes

Increase Plant Safety

The Exx-Series improves plant safety by helping you diagnose and report electrical problems before they result in fire or damage.

- Detect temperature differences down to 30 mK for immediate identification of failing components
- Interchangeable lenses, from wide angle to telephoto, offer complete coverage of near and far targets
- Lenses auto-calibrate with camera for the most precise temperature readings
- MSX® image enhancement adds the depth and detail to image

Designed to Make Your Work Easier

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

- Rapid-response touch screen with intuitive new user interface
- Convenient menu buttons allow for one-handed operation
- New folder and naming structure that makes finding images easier
- Connect over Wi-Fi to mobile devices or via METERLINK® to FLIR clamps and multimeters

Key Features:

- 320 x 240 464 x 348 true native resolution
- Laser-assisted autofocus
- Wide temperature ranges, up to 1500°C
- Vibrant, 4" optically-bonded PCAP touchscreen with 160° viewing angle
- Wi-Fi, METERLiNK® connectivity
- Streamlined reporting features
- FLIR's industry-leading 2-5-10 warranty



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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)	
	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	
T : 1 (1 5 1)	(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)	24° x 18° (17 mm lens), 42° x 32° (10 mm lens), 14° x 10° (29 mm lens)			
F-Number	f/1.3, f/1.1			
Lens Identification	Automatic			
Focus	Continuous, one-shot laser distance meter (LDM), one-shot contrast, manual			
Digital Zoom				
<u> </u>	adae			
Image Presentation and Mo		anded DCAD to the second	ad least a write a state to	
Display	4", 640 x 480 optically-bonded PCAP touchscreen, with 400 cd/m ² surface brightness			
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 p	process quadruples pixel count, activa	ated in FLIR Tools+	
Measurement and Analysis	;			
Accuracy	±2°C (±3.6°F) or ±2% of read	ding 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			
0 000	Yes; automatic GPS image tagging			
Compass, GPS		res; automatic GPS image tagging		
METERLINK®		Yes; several readings		
METERLINK®				
METERLINK® Image Storage Storage Media	Standard	Yes; several readings Removable SD card (8 GB)	a included	
METERLINK® Image Storage Storage Media Image File Format	-	Yes; several readings	a included	
METERLINK® Image Storage Storage Media Image File Format Video Recording and Strea	ming	Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat		
METERLINK® Image Storage Storage Media Image File Format Video Recording and Strea Radiometric IR Video Recording	ming	Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat Real-time radiometric recording (.csq		
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METERLINK® Image Storage Storage Media Image File Format Video Recording and Strea Radiometric IR Video Recording Non-Radiometric IR or Visual Video	ming	Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat Real-time radiometric recording (.csq H.264 to memory card		
METERLINK® Image Storage Storage Media Image File Format Video Recording and Strea Radiometric IR Video Recording Non-Radiometric IR or Visual Video Radiometric IR Video Streaming	ming	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		
METERLINK® Image Storage Storage Media Image File Format Video Recording and Strea Radiometric IR Video Recording Non-Radiometric IR or Visual Video Radiometric IR Video Streaming Non-Radiometric IR Video	ming	Yes; several readings Removable SD card (8 GB) radiometric JPEG, measurement dat Real-time radiometric recording (.csq H.264 to memory card		
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METERLINK® Image Storage Storage Media Image File Format Video Recording and Strea Radiometric IR Video Recording Non-Radiometric IR or Visual Video Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Communication Interfaces	ming	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		
METERLINK® Image Storage Storage Media Image File Format Video Recording and Strea Radiometric IR Video Recording Non-Radiometric IR or Visual Video Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Communication Interfaces Video Out	ming	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		
METERLINK® Image Storage Storage Media Image File Format Video Recording and Strea Radiometric IR Video Recording Non-Radiometric IR or Visual Video Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Communication Interfaces Video Out Additional Data	ming	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)	
METERLINK® Image Storage Storage Media Image File Format Video Recording and Strea Radiometric IR Video Recording Non-Radiometric IR or Visual Video Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Communication Interfaces Video Out Additional Data Battery Type	ming	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 H.264 or MPEG-4 over Wi-Fi USB 2.0, Bluetooth, Wi-Fi DisplayPort over USB Type-C ttery, charged in camera or on separa) te charger	
METERLINK® Image Storage Storage Media Image File Format Video Recording and Strea Radiometric IR Video Recording Non-Radiometric IR or Visual Video Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Communication Interfaces Video Out Additional Data Battery Type Battery Operating Time	ming	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 H.264 or MPEG-4 over Wi-Fi USB 2.0, Bluetooth, Wi-Fi DisplayPort over USB Type-C ttery, charged in camera or on separar rs at 25°C (77°F) ambient temperatur) te charger	
METERLINK® Image Storage Storage Media Image File Format Video Recording and Strea Radiometric IR Video Recording Non-Radiometric IR or Visual Video Radiometric IR Video Streaming Non-Radiometric IR Video Streaming Communication Interfaces Video Out Additional Data Battery Type Battery Operating Time Operating Temperature Range	ming	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 H.264 or MPEG-4 over Wi-Fi USB 2.0, Bluetooth, Wi-Fi DisplayPort over USB Type-C ttery, charged in camera or on separar rs at 25°C (77°F) ambient temperatur –15°C to 50°C (5°F to 122°F)) te charger	
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METERLINK® Image Storage Storage Media Image File Format Video Recording and Strea Radiometric IR Video Recording Non-Radiometric IR or Visual 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/	ming	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 H.264 or MPEG-4 over Wi-Fi USB 2.0, Bluetooth, Wi-Fi DisplayPort over USB Type-C ttery, charged in camera or on separar rs at 25°C (77°F) ambient temperatur –15°C to 50°C (5°F to 122°F)) te charger e and typical use	
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