\$FLIR



ELECTRICAL/MECHANICAL APPLICATIONS

FLIR EXX-SERIES[™]

The FLIR E75, E85, E95, and the entry-level E53 Advanced Thermal Imaging 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 pixels resolution and a more vibrant LCD screen than any other pistol-grip 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 find hidden problems early

- High-resolution infrared detectors, up to 464 x 348, for crisp, detailed images
- Wide temperature ranges with optional calibrations up to 1500°C (2732°F)
- 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

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Increase Plant Safety The Exx-Series cameras will help you diagnose and report electrical and mechanical failures before they lead to fires or explosions

- Detect temperature differences as small as <0.04°C (24° lens) for immediate identification of failing components
- Interchangeable lenses^{*} 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



Make Your Work Easier FLIR designed all four Exx-Series cameras with features that streamline your workday

- Rapid-response touchscreen 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

*E75, E85, E95 models

FLIR-DIRECT.com 1.888.610.7664

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, manu	
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 spo 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		ovable	Resizable and movable	
Common Features			Image Sto	rage			
Detector Type and Pitch	Uncooled microbolometer, 17 µm		Storage Med	edia Removable SD card (8		GB)	
Thermal Sensitivity/NETD	<0.04°C @ 30°C (86°F), 24° lens		Image File Format Standard JPEG v		Standard JPEG with m	easurement data included	
Spectral Range	7.5 - 14.0 μm		Video Recording and Streaming				
Image Frequency	30 Hz		Radiometric IR Video		Real-time radiometric recording (.csq)		
Field of View (FOV)	$42^\circ \times 32^\circ$ (10 mm lens), $24^\circ \times 18^\circ$ (18 mm lens), $14^\circ \times 10^\circ$ (29 mm lens)		Recording Non-Radiometric IR or Visual		H.264 to memory card		
F-Number	f/1.3		Video				
Lens Identification	Automatic		Radiometric IR Video Streaming		Yes, over UVC or Wi-Fi		
Digital Zoom	1-4x continuous		Non-Radiometric IR Video		H.264 or MPEG-4 over Wi-Fi: MJPEG over UVC or Wi-Fi		
Image Presentation and Modes			Streaming				
Display	4", 640 \times 480 pixel touch screen LCD with auto-rotation		Communication Interfaces USB 2.		USB 2.0, Bluetooth, W	SB 2.0, Bluetooth, Wi-Fi, DisplayPort	
Digital Camera	5 MP, 53° × 41° FOV		Video Out		DisplayPort over USB Type-C		
Color Palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC		Additional Data				
mage Modes	Infrared, visual, MSX®, Picture-in-Picture		Battery Type Li-ion battery,		Li-ion battery, charged	l in camera or on separate charger	
MSX® Embosses visual details on full resolution thermal image Measurement and Analysis			Battery Operating Time Approx. 2.5 ho typical use			5°C (77°F) ambient temperature and	
Accuracy	±2°C (±3.6°F) or ±2% of reading for ambient temperature 15°C		Operating Temperature Range		-15°C to 50°C (5°F to 122°F)		
	to 35°C (59°F to 95°F) and object temperature above 0°C (32°F)		Storage Temperature Range		-40°C to 70°C (-40°F to 158°F)		
Alarms	Moisture, insulation, and measurement		Shock/Vibration/		25 g / IEC 60068-2-27, 2 g / IEC 60068-2-6, IP 54 / IEC 60529;		
Color Alarm (Isotherm)	Above/below/interval/condensation/insulation				EN/UL/CSA/PSE 6095		
Compass, GPS	Yes; automatic GPS image tagging		Weight/Dimension 1 kg (2.2 lbs), 27.8 × 11.6 × 11.3 cm (11.0 × 4.6 × 4.4 in)				
METERLINK [®]	Yes; several readings	Box Contents					
Laser Pointer	Yes; dedicated button				protection, straps (har lens caps, lens cleanin	ens, battery (2 ea), battery charger, fro ad, wrist), hard transport case, lanyards g cloth, power supplies, 8 GB SD card, ISB 2.0 A to USB Type-C, USB Type-C to	

*Hot spot to center spot Delta measurement

Specifications are subject to change without notice.

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USB Type-C, USB Type-C to HDMI)

17-3307-INS-Exx MFG

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