

ELECTRICAL/MECHANICAL APPLICATIONS

FLIR SÉRIE EXX [™]

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.

http://www.vortex.com.br/produtos/termovisores



Garanta o funcionamento

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

Amplie a Segurança

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

Facilite o Seu Trabalho

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

SP ECIFIC ATIONS

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
	-20°C to 120°C	-20°C to 120°C		-20°C to 120°C		-20°C to 120°C
Object Temperature Range	0°C to 650°C	0 6 60 650 6		0°C to 650°C		0°C to 650°C
		300°C to 1000°C		300°C to 1200°C		300°C to 1500°C
Focus	Manual	Continuous, one-shot laser distance		Continuous, one-shot laser distance		Continuous, one-shot laser distance
		meter (LDM), one-shot contrast, manual 42° × 32° (10mm lens), 24° × 18° (18mm				meter (LDM), one-shot contrast, manu
Field of View (FOV)	24° × 18°	lens), $14^{\circ} \times 10^{\circ}$ (29 mm lens)		lens), $14^{\circ} \times 10^{\circ}$ (29 mm lens)		42°×32° (10mm lens), 24°×18° (18m lens), 14°×10° (29 mm lens)
Lens Identification	_	Automatic		Automatic		Automatic
IFOV	1.75 mrad	1.31 mrad 1.09		1.09 mrad		0.90 mrad
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		Nomeasurement, center spot, hot spot 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	n live mode			3 in live mode
Picture-in-Picture	Centered infrared area on the visual	Resizable and movable		Resizable and movable		Resizable and movable
	image	Resizuble und moruble			orabic	
Common Fostures			Image Storage			
Common Features Detector Type and Pitch Uncooled microbolometer, 17 µm			Storage Media		Removable SD card (8 GB) Standard JPEG with measurement data included	
Detector Type and Pitch Thermal Sensitivity/NETD	<pre><0.04°C @ 30°C (86°F), 24° lens</pre>	3	3		neasurement data included	
Spectral Range		Video Recording and Streaming				
Image Frequency	7.5 - 14.0 μm 30 Hz		Radiometric IR Video Recording		Real-time radiometric recording (.csq)	
F-Number	f/1.3, 24° lens	5		etric IR or Visual	11 27 4 1	
Digital Zoom	1-4x continuous		Video		H.264 to memory car	d
Image Presentation and	1	Radiometric IR Video Streaming		Yes, over UVC or Wi-Fi		
Display	4° , 640 × 480 pixel touch screen LCD with auto-rotation			etric IR Video		
Digital Camera	5 MP, 53° × 41° FOV		Streaming		H.264 or MPEG-4 over Wi-Fi; MJPEG over UVC or Wi-Fi	
Color Palettes	Iron, Gray, Rainbow, Arctic, Lava, Rair	Communicat	Communication Interfaces USB 2.0, Bluetooth,		Vi-Fi, DisplayPort	
Image Modes	Infrared, visual, MSX [®] , Picture-in-Picture		Video Out DisplayPort over USB		Type-C	
MSX®	Embosses visual details on full resolution	Additional Data				
Measurement and Analysis			Battery Type		Li-ion battery, charged in camera or on separate charger	
Accuracy	$\pm 2^{\circ}C$ ($\pm 3.6^{\circ}F$) or $\pm 2\%$ of reading for ambient temperature $15^{\circ}C$ to $35^{\circ}C$ ($59^{\circ}F$ to $95^{\circ}F$) and object temperature above $0^{\circ}C$ ($32^{\circ}F$)		Battery Operating Time		Approx. 2.5 hours at 25 °C (77 °F) ambient temperature and typical use	
Alarms	Moisture, insulation, and measurement	Operating Temperature Range -15°C to 50°C (5°F to		o 122°F)		
Color Alarm (Isotherm)	Above/below/interval/condensation/insula	Storage Ten	Storage Temperature Range -40°C to 70°C (-40°F		to 158°F)	
Compass, GPS	Yes; automatic GPS image tagging	Shock/Vibration/ 25g/IEC60068-2-27,2		2g/IEC60068-2-6, IP54/IEC60529;		
METERLINK®	Yes; several readings	Encapsulation; Safety EN/UL/CSA/PSE 609				
Laser Pointer	Yes; dedicated button		Weight/Dimension		1 kg (2.2 lbs), 27.8 × 11.6 × 11.3 cm (11.0 × 4.6 × 4.4 in)	
			Box Conte	ents		
					Infrared camera with le	ns hattery (2 ea) hattery charger from

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

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