FLIR Ex-Series





FLIR Ex-Series cameras are point-and-shoot thermal imaging cameras that give you access to a new dimension. A FLIR Ex-Series camera is an affordable replacement for a spot pyrometer. It provides a thermal image with temperature information on every pixel. The combined image storage of the new MSX®, thermal and visual formats make the cameras incomparably easy to use.





Outstanding ease-of-use

The cameras are extremely easy to understand and operate, designed for entry-level users. The cameras are intuitive and come with a full manual.



Fully automatic

FLIR Ex-Series produce instant, point-and-shoot JPEG thermal imagery with all required temperature data included.



Focus free

The fixed focus free lens makes using the FLIR Ex-Series a snap.



Compact and lightweight

FLIR Ex-Series weighs only 575 g, and is easy to store in a belt pouch.



Visual camera

Visible light camera makes observing and inspecting faster and easier.



Reporting and analysis software included

FLIR Tools software is available for free download for all Ex-Series users.



Measure temperatures

Measures temperatures up to +250°C and detects temperature differences as small as 0.06°C (FLIR E6 / FLIR E8).



Measurement functions

Spotmeter, area with max./min., color alarm; blue below / red above set temperature*



Picture-in-Picture (PiP)

With the PiP-function it is easy to locate areas of interest.*



Multi Spectral Dynamic Imaging (MSX®)

The innovative MSX® feature produces an image more rich in every detail than ever before.



Multi Spectral Image storage

Combined image storage including MSX®, thermal, PiP and visual.

^{*} Features dependant on camera model, please check technical specifications for more details.



MSX® allows seeing even more detail on the thermal image.

Save time and money in 3 steps:

- Detect hidden problems, make quick damage assessments and perform preventive inspections
- Identify energy losses and poor insulation
- Spot electrical faults before it is too late
- Produce instant thermal images of your findings
- Create reports, analyse and document your findings with the easy-to-use software



FLIR Ex-Series camera model comparison

FLIR E4	FLIR E5	FLIR E6	FLIR E8
Thermal image quality: 80x60 pixels	Thermal image quality: 120x90 pixels	Thermal image quality: 160x120 pixels	Thermal image quality: 320x240 pixels
Thermal sensitivity: 0.15°C	Thermal sensitivity: 0.10°C	Thermal sensitivity: 0.06°C	Thermal sensitivity: 0.06°C
IR image, visual image, MSX®, thumbnail gallery	IR image, visual image, MSX®, picture in picture, thumbnail gallery	IR image, visual image, MSX®, picture in picture, thumbnail gallery	IR image, visual image, MSX [®] , picture in picture, thumbnail gallery
Center spot	Center spot, area with max./min.	Spotmeter, area with max./min., color alarm; blue below / red above set temperature	Spotmeter, area with max./min., color alarm; blue below / red above set temperature



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Technical specifications

Camera specific

	FLIR E4	FLIR E5	FLIR E6	FLIR E8
IR resolution	80 x 60 pixels	120 x 90 pixels	160 x 120 pixels	320 x 240 pixels
MSX resolution	320 x 240 pixels	320 x 240 pixels	320 x 240 pixels	320 x 240 pixels
Thermal sensitivity	0.15°C	0.10°C	0.06°C	0.06°C
Spatial resolution (IFOV)	10.3 mrad	6.9 mrad	5.2 mrad	2.6 mrad
Image modes	IR image, visual image,	IR image, visual image,	IR image, visual image, MSX®,	IR image, visual image, MSX®,
	MSX®, thumbnail gallery	MSX®, picture in picture,	picture in picture, thumbnail gallery	picture in picture, thumbnail gallery
	-	thumbnail gallery		
Color alarm	NA	NA	Blue below or red above set	Blue below or red above set
			temperature	temperature

General

Imaging performance			
Field of view/min focus distance	45° x 34° / 0.5 m		
Spectral range	7.5 - 13 μm		
Image Frequency	9 Hz		
Focus	Focus free		
Focal Plane Array (FPA)	Uncooled microbolometer		
Image Presentation			
Display	3" 320 x 240 color LCD		
Image adjustment	Automatic adjust/lock image		
Measurement			
Object temperature range	-20°C to +250°C		
Accuracy	±2 °C or ±2% of reading , for ambient temperature 10°C to 35°C and object temperature above + 0°C		
Measurement analysis			
Spotmeter	Center spot		
Emissivity correction	Variable from 0.1 to 1.0		
Emissivity table	Emissivity table of predefined materials		
Reflected apparent temperature correction	Automatic, based on input of reflected temperature		
Setup	ratemate, seese on impactor remotes temperature		
Color palettes	Iron, Rainbow and Black/White		
Set-up commands	Local adaptation of units, language, date and time formats		
	2000 adaptation of amortaling adapt, and amortalinate		
Image Storage			
Image storage capacity	Internal memory store at least 500 sets of images		
Image storage mode File formats	Simultaneous storage of images in IR, visual and MSX Standard JPEG - 14 bit measurement data included		
	Stalldard JFEO - 14 bit illeasurement data ilicidued		
Data communication interfaces	USB Micro: Data transfer to and from PC and Mac device		
Power system	OOD MICTO. Data dansier to and from to and Mac across		
Battery Type	Li-lon rechargeable		
Battery voltage	3.7 V		
Battery operating time	Approx. 4 hours at +25°C ambient temperature and typical use		
Charging system	Battery is charged inside the camera or in specific charger		
Charging time	2.5 hours to 90% capacity in camera. 2 hours in charger		
Power management	Automatic shutdown		
AC operation	AC adapter, 90-260 VAC input, 5 VDC output to camera		
Environmental specifications			
Operating temperature range	-15°C to +50°C		
Storage temperature range	-40°C to +70°C		
Humidity	IEC 60068-2-30/24 h 95% relative humidity		
EMC	• WEEE 2012/19/EC		
	• RoHs 2011/65/EC		
	• C-Tick		
	• EN 61000-6-3		
	• EN 61000-6-2		
Dump	• FCC 47 CFR Part 15 Class B		
Bump Vibration	25 g, IEC 60068-2-29 2 g, IEC 60068-2-6		
Physical characteristics	<u></u>		
Dimensions	244 x 95 x 140 mm		
Weight	575 q, including battery		
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Shinning size	303 x 206 x 128 mm		
Shipping size Shipping weight	303 x 206 x 128 mm 2.7 kg (FLIR E8: 2.95 kg)		

FLIR thermal imaging camera, hard transport case, FLIR Tools™ download card, user documentation CD-ROM, printed documentation, battery (2x), power supply/charger with EU, UK, US and Australian plugs, USB cable, battery charger (FLIR E8 only)

