

Product Datasheet - Technical Specifications



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FLIR Ex PRO-SERIES

Pro-Series Infrared Cameras
with Ignite™ Cloud



Key Features:

- Quickly recognize where problems are located thanks to FLIR MSX® (Multi-Spectral Dynamic Imaging), which embosses key visual details onto thermal images
- Save time spent on manual adjustments with 1-Touch Level/Span
- Improve inspection efficiency using the 640 × 480 touchscreen, with the ability to add detailed notes to each image
- Edit, store, organize, and share images using the FLIR Ignite cloud service
- Create quick reports in FLIR Ignite from any device, or create advanced reports in FLIR Thermal Studio from a PC

Main Applications:

- Industrial inspections of electrical and mechanical equipment
- Condition monitoring and preventive maintenance of degrading equipment before failure
- Building inspections to ensure energy efficiency

www.flir.com/ex-pro

SPECIFICATIONS

	E5 Pro	E6 Pro	E8 Pro
Unique Features by Model			
IR Resolution	160 × 120 (19,200 pixels)	240 × 180 (43,200 pixels)	320 × 240 (76,800 pixels)
Thermal Sensitivity/NETD	<0.06°C (0.11°F) / <60 mK at 30°C (86°F)	<0.05°C (0.09°F) / <50 mK at 30°C (86°F)	<0.04°C (0.07°F) / <40 mK at 30°C (86°F)
Spatial Resolution (IFOV)	3.7 mrad	2.5 mrad	1.8 mrad
Inspection Efficiency			
Multi Spectral Dynamic Imaging (MSX)	IR image enhanced with visible camera detail		
FLIR Ignite	Instant upload to cloud storage over Wi-Fi		
FLIR Thermal Studio Suite	Compatible with full range of analysis and reporting software		
Capacitive Touchscreen	Access to onscreen menus, features, and keyboard		
Text	Text annotation on image using onscreen keyboard		
Gallery	Thumbnails and custom folder structure		
1-Touch Level/Span	Yes; automatic contrast enhancement		
Imaging & Optical			
Field of view (FOV)	33° × 25°		
Focus	Focus free		
Image Frequency	9 Hz		
Color Palettes	Iron, White hot, Black hot, Rainbow, Arctic, Lava, Rainbow HC		
Digital Camera	5 MP		
Picture-in-Picture	IR area on visual image		
Detector Type	Uncooled microbolometer		

	E5 Pro	E6 Pro	E8 Pro
Imaging & Optical Continued			
Image Modes	Thermal MSX, thermal, picture-in-picture, digital camera		
Minimum Focus Distance	0.36 m (1.18 ft)		
Spectral Range	7.5–13 μm		
Measurement & Analysis			
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (50°F to 95°F) and object temperature above 0°C (32°F)		
Object Temperature Range	-20°C to 400°C (-4°F to 752°F) in two ranges	-20°C to 550°C (-4°F to 1022°F) in two ranges	
Measurements Correction	Emissivity; matt/semi-matt/semi-gloss + custom value, reflected apparent temperature, atmospheric compensation		
Set-up Commands	Local adaptation of units, language, date and time formats		
Spot Meter	Center spot; box with min./max.		
Isotherm	Above alarm, below alarm		
Delta T	Yes, NFPA 70B compliant		
User Interface			
Display	3.5 inch, 640 × 480 color LCD		
Flashlight	Bright LED		
Power			
Battery Operating Time	4 hours		
Battery Type	Rechargeable Lithium-ion battery		
Charging System	Battery is charged inside the camera or in specific charger		
Charging Time	2 h		
Power Management	Automatic shut-down		

Specifications subject to change. For the most up-to-date specifications, please visit flir.com.

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Revised 08/29/23
Ex Pro-Series_Datasheet-LTR 23-0403-INS



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Pro-Series Infrared Cameras
with Ignite™ Cloud

SPECIFICATIONS, CONT.

	E5 Pro	E6 Pro	E8 Pro
Environmental & Certifications			
Drop Test	2 m (6.6 ft)		
Encapsulation	IP54 (IEC 60529)		
Certifications	UL, CSA, CE, PSE and CCC, WEEE 2012/19/EC, RoHS 2011/65/EC		
EMC	EN 301 489-1, EN 301 489-17, EN 61000-6-3, EN 61000-6-2, FCC 47 CFR Part 15 Class B		
Humidity (Operating and Storage)	IEC 60068-2-30/24 h 95% relative humidity		
Operating Temperature Range	-15°C to 50°C (5°F to 122°F)		
Wi-Fi	Standard: 802.11 a/b/g/n (2.4 and 5 GHz)		
Shock	25 g (IEC 60068-2-27)		
Storage Temperature Range	-40°C to 70°C (-40°F to 158°F)		
Vibration	2 g (IEC 60068-2-6)		
General			
Camera Size (L x W x H)	244 mm x 95 mm x 140 mm (9.6 in x 3.7 in x 5.5 in)		
Camera Weight (including battery)	0.590 kg (1.30 lb)		
Packaging Size	385 mm x 165 mm x 315 mm (15.2 in x 6.5 in x 12.4 in)		
Storage Media	Internal memory and onboard FLIR Ignite™ cloud connectivity with Wi-Fi		
Package Includes	Infrared camera, hard transport case, battery (inside camera), power supply (with EU, UK, US and AU plugs), FLIR Thermal Studio Starter, and printed documentation	Infrared camera, hard transport case, battery (inside camera) + extra battery, tabletop charger, power supply (with EU, UK, US and AU plugs), micro USB adapter, FLIR Thermal Studio Starter, and printed documentation	

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ACCESSORIES

Wearable Accessories
Pouch for FLIR E-Series (T911689ACC)
Pouch with Shoulder Strap (T198529)
Tool Belt (T911093)
Batteries & Chargers
Battery Charger (T198531)
Battery Li-ion 3.6 V, 2.6 Ah, 9.4 Wh (T199362ACC)
Power Supply (T911630ACC)
Cables & Adapters
USB cable, USB-A to USB-C (T911940ACC)
Straps & Holsters
Tool Belt (T911093)
Software
FLIR Thermal Studio Suite for PC
FLIR Tools Mobile App for iOS® and Android™
FLIR Ignite
Services
Extended Warranty

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