



# 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

### SPECIFICATIONS

	E5 Pro	E6 Pro	E8 Pro
<b>Unique Features by Model</b>			
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
<b>Inspection Efficiency</b>			
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		
<b>Imaging &amp; Optical</b>			
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
<b>Imaging &amp; Optical Continued</b>			
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		
<b>Measurement &amp; Analysis</b>			
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		
<b>User Interface</b>			
Display	3.5 inch, 640 × 480 color LCD		
Flashlight	Bright LED		
<b>Power</b>			
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		



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## SPECIFICATIONS, CONT.

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<b>Environmental &amp; Certifications</b>			
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)		
<b>General</b>			
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	

## ACCESSORIES

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