



# FLIR Ex PRO-SERIES

Pro-Series Infrared Cameras  
with Ignite™ Cloud



## SPECIFICATIONS

|                                      | E5 Pro                                                        | E6 Pro                                         | E8 Pro                                         |
|--------------------------------------|---------------------------------------------------------------|------------------------------------------------|------------------------------------------------|
| Unique Features by Model             |                                                               |                                                |                                                |
| IR Resolution                        | 160 × 120<br>(19,200 pixels)                                  | 240 × 180<br>(43,200 pixels)                   | 320 × 240<br>(76,800 pixels)                   |
| Thermal Sensitivity/NETD             | <0.06°C (0.11°F)<br>/ <60 mK at 30°C<br>(86°F)                | <0.05°C (0.09°F)<br>/ <50 mK at 30°C<br>(86°F) | <0.04°C (0.07°F)<br>/ <40 mK at 30°C<br>(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                                       |                                                |                                                |

## 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](http://www.flir.com/ex-pro)

|                             | 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<br>(-4°F to 752°F)<br>in two ranges                                                                           | -20°C to 550°C<br>(-4°F to 1022°F)<br>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](http://flir.com).

For more information contact: [Sales@TeledyneFLIR.com](mailto:Sales@TeledyneFLIR.com)  
or to find your local support number, visit: [flir.com/contactsupport](http://flir.com/contactsupport)  
[www.teledyneflir.com](http://www.teledyneflir.com)

This product is subject to United States export regulations and may require US authorization prior to export, reexport, or transfer to non-US persons or parties. Diversion contrary to US law is prohibited.

For assistance with confirming the Jurisdiction & Classification of Teledyne FLIR, LLC products, please contact [exportquestions@flir.com](mailto:exportquestions@flir.com). ©2023 Teledyne FLIR, LLC. All rights reserved.

Revised 08/29/23  
Ex-Pro-Series\_Datasheet-LTR 23-0403-INS



# FLIR Ex PRO-SERIES

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 × W × H)           | 244 mm × 95 mm × 140 mm (9.6 in × 3.7 in × 5.5 in)                                                                                                                 |                                                                                                                                                                                                                         |        |
| Camera Weight (including battery) | 0.590 kg (1.30 lb)                                                                                                                                                 |                                                                                                                                                                                                                         |        |
| Packaging Size                    | 385 mm × 165 mm × 315 mm (15.2 in × 6.5 in × 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 |        |

Specifications subject to change. For the most up-to-date specifications, please visit [flir.com](http://flir.com).

## 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                                 |

For more information contact: [Sales@TeledyneFLIR.com](mailto:Sales@TeledyneFLIR.com)  
or to find your local support number, visit: [flir.com/contactsupport](http://flir.com/contactsupport)  
[www.teledyneflir.com](http://www.teledyneflir.com)

This product is subject to United States export regulations and may require US authorization prior to export, reexport, or transfer to non-US persons or parties. Diversion contrary to US law is prohibited.

For assistance with confirming the Jurisdiction & Classification of Teledyne FLIR, LLC products, please contact [exportquestions@flir.com](mailto:exportquestions@flir.com). ©2023 Teledyne FLIR, LLC. All rights reserved.

Revised 08/29/23  
Ex Pro-Series\_Datasheet-LTR 23-0403-INS