

P/N: 64501-0302

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General description

The FLIR Exx-Series is a compact and rugged infrared camera that can be used in harsh environments while still providing you with the latest technology such as a modern touchscreen and wireless connectivity. The Exx-Series is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

Benefits:

- Robust and sophisticated: The Exx-Series has a robust and light-weight design and can withstand a 2 meter drop. Big buttons combined with a modern touch screen and broad measuring capabilities, it is the right choice for demanding inspections in the field.
- Easy communication: The Wi-Fi connectivity of the FLIR Exx allows you to connect to smart
 phones and tablet PCs, for the wireless transfer of images or remote control of the camera. The
 Bluetooth-based MeterLink® function transfers readings from external measurement instruments
 to the infrared image.
- Best value for money: The FLIR Exx-Series combines good performance (up to 320 x 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK



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25° × 19°		
0.4 m (1.31 ft.)		
18 mm (0.7 in.)		
1.36 mrad		
1.3		
60 Hz		
Manual		
2× and 4×		
Panning over zoomed-in images		
Focal plane array (FPA), uncooled microbolometer		
7.5–13 μm		
Touch screen, 3.5 in. LCD, 320 × 240 pixels		
Auto or manual		
IR image, visual image, MSX, picture in picture, thumbnail gallery		
Scalable IR area on visual image		
Measurement		
-20°C to +120°C (-4°F to +248°F)		
0°C to +650°C (+32°F to +1202°F)		
±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)		
3		
3 boxes with max./min./average		
Auto hot or cold spotmeter markers within area		
Delta temperature between measurement functions or reference temperature		
Manually set or captured from any measurement function		
Variable from 0.01 to 1.0 or selected from materials list		
Automatic, based on inputs of optics/window transmission and temperature		



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Set-up		
HC Set-up commands Local adaptation of units, language, date and time formats Storage of images Image storage Standard JPEG, including measurement data, on memory card Image storage mode Simultaneous storage of images in IR, visual and MSX Image annotations Voice G0 seconds (via Bluetooth) Text Text from predefined list or soft keyboard on touch screen Meterlink Wireless connection (Bluetooth®) to: FLIR meters with MeterLink Report generation FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms -		
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Report generation • FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms –		
FLIR fools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms –		
Video recording in camera		
Non-radiometric IR-video recording MPEG-4 to memory card		
Video streaming		
Radiometric IR-video streaming Full dynamic to PC using USB		
Non-radiometric IR-video streaming Uncompressed colorized video using USB		
Digital camera		
Built-in digital camera 3.1 Mpixel (2048 × 1536 pixels), and one LED light		
Digital camera, focus Fixed focus		
Built-in digital lens data FOV 53° × 41°		
Digital camera, aspect ratio 4:3		
Laser pointer		
Laser Activated by dedicated button		
Laser alignment Position is automatic displayed on the IR image		
Laser classification Class 2		
Laser type Semiconductor AlGaInP diode laser		
÷		
Laser power 1 mW		



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Data communication interfaces	
Wi-Fi	Peer to peer (adhoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for voice annotation of images
USB	
USB	USB-A: Connect external USB device USB Mini-B: Data transfer to and from PC / Uncompressed colorized video
USB, standard	USB Mini-B: 2.0
USB, connector type	USB-A connector USB Mini-B connector
Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
Radio	•
Wi-Fi	Standard: 802.11 b/g
	Frequency range: 2412–2462 MHz
	Max output power: 15 dBm
Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
Power system	
Battery type	Rechargeable Li Ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25° C to +40°C (+77°F to +104°F) / 2 cycles



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Environmental data	
EMC	 ETSI EN 301 489-1 (radio) ETSI EN 301 489-17 EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 B (Emission) ICES-003
Radio spectrum	ETSI EN 300 328FCC Part 15.247RSS-210
Magnetic fields	EN 61 000-4-8, Test level 5 for continous field (Severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	

Physical data	
Camera weight, incl. battery	0.880 kg (1.94 lb.)
Camera size $(L \times W \times H)$	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC 1/4"-20 (adapter needed)
Material	Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)
	Thixomold magnesium
	Thermoplastic elastomer (TPE)
Color	Graphite gray and black

Shipping information

- Hard transport case
- · Infrared camera with lens
- Battery (2 ea.)
- Battery charger
- FLIR Tools download card
- Handstrap
- · Memory card
- Power supply, incl. multi-plugs Printed documentation
- USB cable
- User documentation CD-ROM
- Video cable

Packaging, weight	5.0 kg (11.02 lb.)
Packaging, size	$500 \times 350 \times 190 \text{ mm} (19.7 \times 13.8 \times 7.5 \text{ in.})$
EAN-13	4743254001152
UPC-12	845188005184

Supplies & accessories:

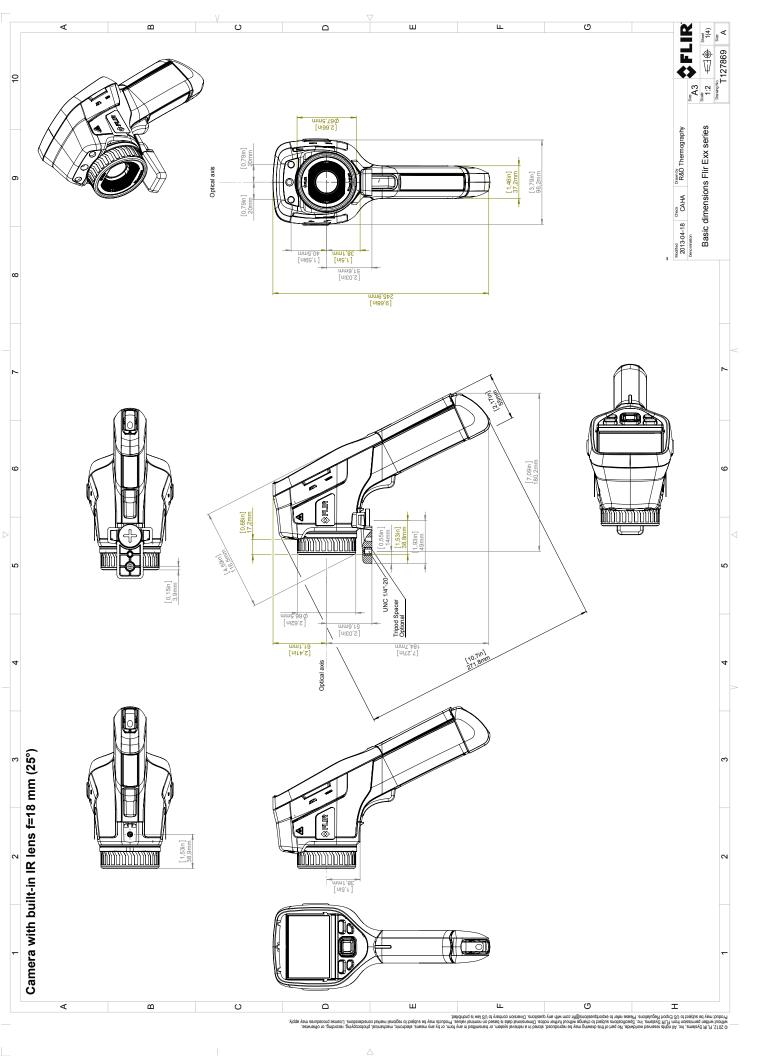
- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B

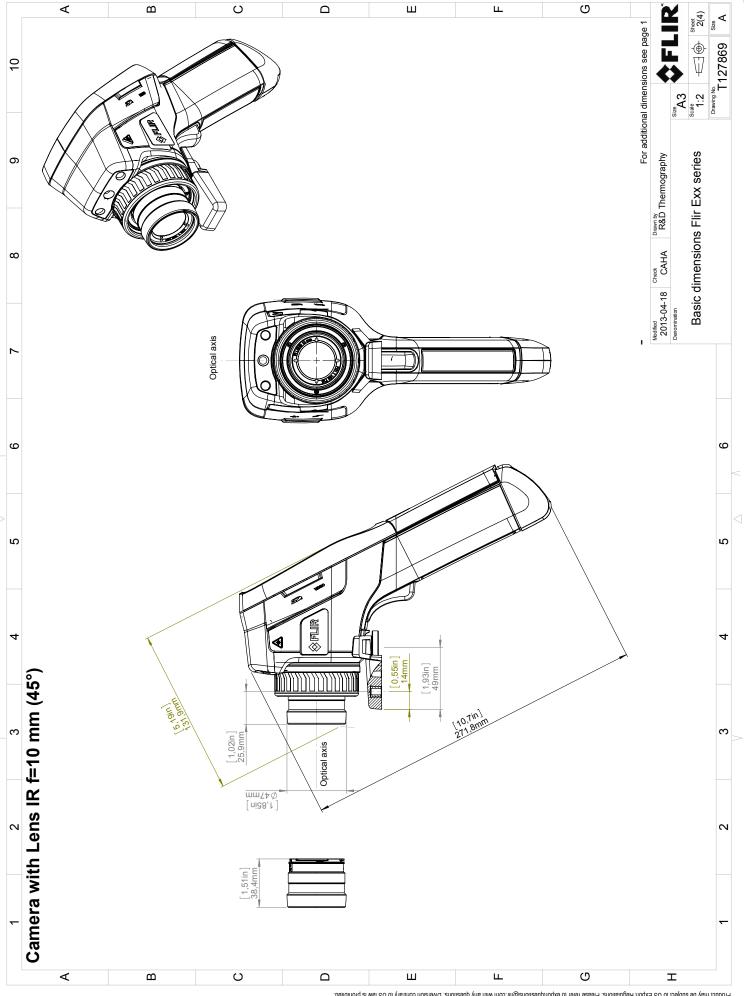


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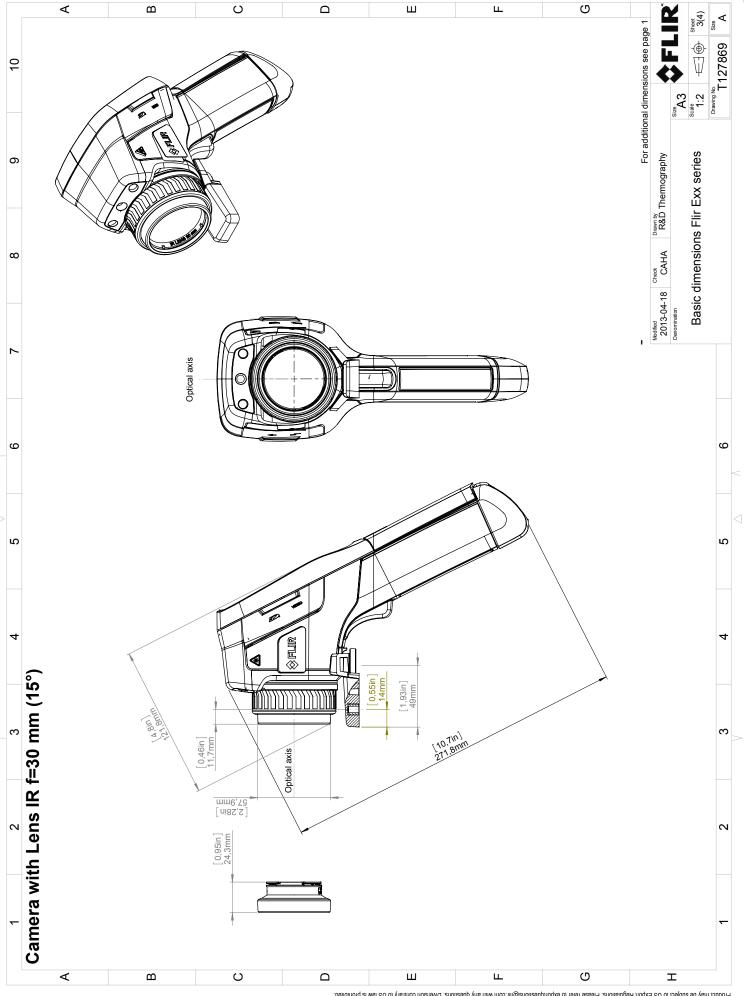
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T197771ACC; Bluetooth Headset
- T910972; EX845: Clamp meter + IR therm TRMS 1000A AC/DC
- T910973; MO297: Moisture meter, pinless with memory
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs Exx
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198486; Tripod Adapter
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T127597L5; FLIR ResearchIR 3 (license only), 5 user licenses
- T127597L10; FLIR ResearchIR 3 (license only), 10 user licenses
- T127598L5; FLIR ResearchIR 3 Max (license only), 5 user licenses
- T127598L10; FLIR ResearchIR 3 Max (license only), 10 user licenses
- T198696; FLIR ResearchIR Max 4
- T198697; FLIR ResearchIR Max + HSDR 4
- T198579; FLIR ResearchIR 3 (CD)
- T198578; FLIR ResearchIR 3 (license only)
- T198575; FLIR ResearchIR 3 Max (CD)
- T198574; FLIR ResearchIR 3 Max (license only)
- T198292; Upgrade previous version to FLIR ResearchIR 3
- T198291; Upgrade previous version to FLIR ResearchIR 3 Max
 T198290; Upgrade FLIR ResearchIR 3 to FLIR ResearchIR 3 Max





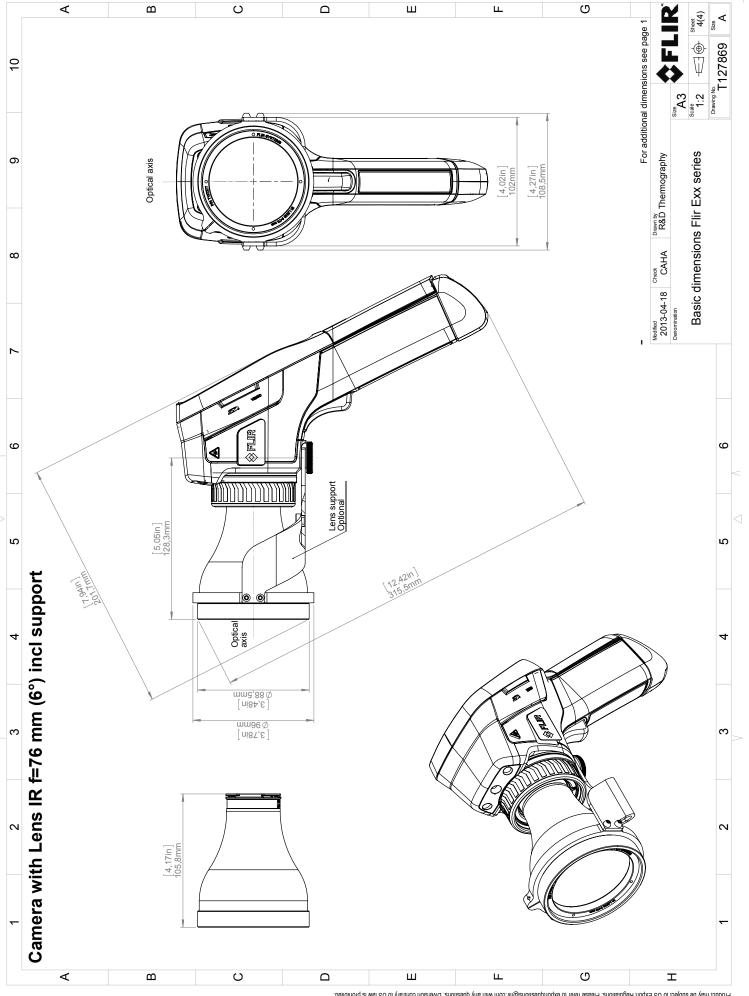
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