

## P/N: 78515-1101

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Website

http://www.flir.com

#### **Customer support**

http://support.flir.com

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution)	Yes
NETD	<30 mK, 42° @ +30°C (+86°F)     <40 mK, 24° @ +30°C (+86°F)
Field of view	• 42° × 32° • 24° × 18°
Minimum focus distance	• 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24°
Minimum focus distance with MSX	• 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24°
Focal length	• 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24°
Spatial resolution (IFOV)	2.41 mrad/pixel, 42°     1.31 mrad/pixel, 24°
Available extra lenses	14° (AutoCal)
Lens identification	Automatic
f number	• 1.1, 42° • 1.3, 24°
Image frequency	30 Hz

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Imaging and optical data	
Focus	Continuous LDM     One-shot LDM     One-shot contrast     Manual
Field of view match	Yes
Digital zoom	1–4× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm
Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	Automatic     Automatic maximum     Automatic minimum     Manual
Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes
Measurement	
Camera temperature range	<ul> <li>-20 to 120°C (-4 to 248°F)</li> <li>0 to 650°C (32 to 1202°F)</li> <li>Optional 300 to 1000°C (572 to 1832°F)</li> </ul>
Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)	<ul> <li>Range -20 to 120°C (-4 to 248°F):</li> <li>-20 to 100°C (-4 to 212°F): ±2°C (±3.6°F)</li> <li>100 to 120°C (212 to 248°F): ±2%</li> <li>Range 0 to 650°C (32 to 1202°F):</li> <li>0 to 100°C (32 to 212°F): ±2°C (±3.6°F)</li> <li>100 to 650°C (212 to 1202°F): ±2%</li> <li>Optional Range 300 to 1000°C (572 to 1832°F): ±2%</li> </ul>

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Inspection mode	
FLIR Inspection route	Enabled in the camera
Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	No measurements Center spot Hot spot Cold spot User preset 1 User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Alarm	
Color alarm (isotherm)	Above     Below     Interval     Condensation (moisture/humidity/dewpoint)     Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Set-up	
Color palettes	Arctic     White hot     Black hot     Iron     Lava     Rainbow     Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21
Service functions	
Camera software update	Using USB cable or SD card
Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	No
Remote control operation	Using USB cable or Wi-Fi
Image file format	Standard JPEG, measurement data included. Infrared-only mode
Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen



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Image annotations         Yes           Visual image annotation         Yes           Image sketch         Yes: on infrared images only           Sketch         From touchscreen           METERLINK         Wireless connection (Bluetooth) to: FLIR meters with METERLINK           Compass         Yes           Laser distance meter information         Yes           Area measurement information         No           GPS         Yes: location data automatically added to every still image and the first frame in video from built-in GPS           Video recording in camera         FRR (.csq)           Radiometric infrared-video recording         RTRR (.csq)           Non-radiometric infrared-video recording         H.264 to memory card           Video streaming         Over UVC           Video streaming (compressed: IR, MSX, visual, Picture in Picture)         • H.264 (AVC) over RTSP (Wi-Fi)           Visual video streaming         Yes           Digital camera         * MEPEG over TTSP (Wi-Fi)           Resolution         5 MP with LED light           Focus         Fixed           Field of view         53° x 41°           Video lamp         Built-in LED light           Laser alignment         Position is automatically displayed on the infrared image           Laser John of the p		
Image sketch  Sketch  From touchscreen  METERLINK  Wireless connection (Bluetooth) to: FLIR meters with METERLINK  Compass  Laser distance meter information  Yes  Area measurement information  OPS  Yes: location data automatically added to every still image and the first frame in video from built-in GPS  Video recording in camera  Radiometric infrared-video recording  RTRR (.csq)  Non-radiometric infrared-video recording  H.264 to memory card  Video treaming  Video streaming  Compressed)  Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming  Visual video streaming  Position is automatically displayed on the infrared-video laser image  Laser distance meter  Laser USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth  Microphone and speaker for voice annotation of images  USB USB Type-C: data transfer/video/power  USB 2.0 High Speed  Video lung SplayPort	Image annotations	
Sketch From touchscreen  METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK  Compass Yes Laser distance meter information No  GPS Yes: location data automatically added to every still image and the first frame in video from built-in GPS  Video recording in camera  Radiometric infrared-video recording RTRR (.csq) Non-radiometric infrared-video recording H.264 to memory card  Video streaming  Video streaming  Video streaming  Video streaming  Over UVC  Compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming (compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming  Ves  Digital camera  Fesolution  5 MP with LED light  Focus  Fixed  Field of view  53° x 41°  Video lamp  Built-in LED light  Laser pointer  Laser alignment  Laser alignment  Position is automatically displayed on the infrared image  and a decicated button  Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  USB  USB Type-C: data transfer/video/power  USB 1.0 High Speed  USB 1.0 High Speed  Video out  DisplayPort	Visual image annotation	Yes
METERLINK  Wireless connection (Bluetooth) to: FLIR meters with METERLINK  Compass  Laser distance meter information  Yes  Area measurement information  No  GPS  Ves: location data automatically added to every still image and the first frame in video from built-in GPS  Video recording in camera  Radiometric infrared-video recording  Non-radiometric infrared-video recording  H.264 to memory card  Visual video recording  Radiometric infrared-video streaming (compressed)  Voer UVC  Voer UVC  Voer UVC  View and in First frame in video from built-in GPS  Padiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)  Piglial camera  Resolution  ShP with LED light  Focus  Fixed  Fixed  Video streaming  Position is automatically displayed on the infrared image  Laser distance meter  Activated by a dedicated button  Laser alignment  Position is automatically displayed on the infrared image  Laser distance meter  Activated by a dedicated button  Class 2, 0.05-40 m (1.6-131 ft.) ±1% of measured distance  Data communication interfaces  Wi-Fi Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  USB 2.0 High Speed  Video out  DisplayPort	Image sketch	Yes: on infrared images only
FLIR meters with METERLINK  Compass Yes  Laser distance meter information Area measurement information Area measurement information No  GPS Yes: location data automatically added to every still image and the first frame in video from built-in GPS  Video recording in camera  Radiometric infrared-video recording RTRR (.csq) Non-radiometric infrared-video recording H.264 to memory card  Visual video recording H.264 to memory card  Video streaming Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming (compressed: Pi. MPEGA over RTSP (Wi-Fi) - MPEGA over RTS	Sketch	From touchscreen
Laser distance meter information Yes  Laser distance meter information No  GPS Yes: location data automatically added to every still image and the first frame in video from built-in GPS  Video recording in camera  Radiometric infrared-video recording RTRR (.csq)  Non-radiometric infrared-video recording H.264 to memory card  Visual video recording H.264 to memory card  Video streaming  Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming Yes  Digital camera  Resolution 5 MP with LED light  Focus Fixed Fixed Fixed  Fixed Built-in LED light  Laser pointer  Laser alignment Position is automatically displayed on the infrared image  Laser distance meter Activated by a dedicated button  Laser Class 2, 0.05-40 m (1.6-131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth  Communication with headset and external sensors  Wi-Fi Peer to peer (ad hoc) or infrastructure (network)  Audio Microphone and speaker for voice annotation of limages  USB 1.0 High Speed  Video out  DisplayPort	METERLINK	Wireless connection (Bluetooth) to:
Area measurement information  Area measurement information  Area measurement information  Area measurement information  RPS  Yes: location data automatically added to every still image and the first frame in video from built-in GPs  Video recording in camera  Radiometric infrared-video recording  RTRR (.csq)  Non-radiometric infrared-video recording  H.264 to memory card  Video streaming  Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture)  Video streaming  Pistual video streaming (compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming  Pistual video streaming		FLIR meters with METERLINK
Area measurement information  GPS  Yes: location data automatically added to every still image and the first frame in video from built-in GPS  Video recording in camera  Radiometric infrared-video recording  Non-radiometric infrared-video recording  H.264 to memory card  Visual video recording  H.264 to memory card  Video streaming  Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture)  Vigeo streaming  Radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming  Ves  Digital camera  Resolution  5 MP with LED light  Focus  Fixed  Field of view  53° × 41°  Video lamp  Built-in LED light  Laser alignment  Position is automatically displayed on the infrared image  Laser distance meter  Activated by a dedicated button  Class 2, 0.05-40 m (1.6-131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces  USB 2, 0. Bluetooth, Wi-Fi, DisplayPort  METERLINIK/Bluetooth  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Microphone and speaker for voice annotation of images  USB  USB Type-C: data transfer/video/power  Video out  DisplayPort	Compass	Yes
Yes: location data automatically added to every still image and the first frame in video from built-in GPS	Laser distance meter information	Yes
Still image and the first frame in video from builf-in GPS		
Radiometric infrared-video recording Non-radiometric infrared-video recording Visual video recording H.264 to memory card Video streaming Radiometric infrared-video streaming (compressed) Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture) Visual video streaming Visual video ver RTSP (Wi-Fi)	GPS	still image and the first frame in video from built-in
Non-radiometric infrared-video recording Visual video recording H.264 to memory card Video streaming Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture) Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture) Visual video streaming Yes  Digital camera Resolution S MP with LED light Focus Fixed Field of view 53° x 41° Video lamp Built-in LED light  Laser pointer Laser alignment Position is automatically displayed on the infrared image Laser distance meter Laser USB 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLiNK/Bluetooth Microphone and speaker for voice annotation of images USB USB Type-C: data transfer/video/power USB standard Video out DisplayPort	Video recording in camera	
Video streaming  Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming  Pigital camera  Resolution  Focus  Fixed  Field of view  Video lamp  Laser pointer  Laser distance meter  Laser  Laser  Data communication interfaces  Interfaces  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth  Microphone and speaker for voice annotation of images  USB standard  Video out  Video ver UVC  H. 2.64 (AVC) over RTSP (Wi-Fi)  H. 2.64 (AVC)	Radiometric infrared-video recording	RTRR (.csq)
Video streaming	Non-radiometric infrared-video recording	H.264 to memory card
Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture)  Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)  Pigital camera  Resolution  S MP with LED light  Focus  Fixed  Field of view  53° × 41°  Video lamp  Built-in LED light  Laser pointer  Laser alignment  Position is automatically displayed on the infrared image  Laser distance meter  Activated by a dedicated button  Laser  Class 2, 0.05-40 m (1.6-131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Audio  USB 2.0 High Speed  Video out  DisplayPort	Visual video recording	H.264 to memory card
(compressed)  Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)  Pigital camera  Resolution  Focus  Fixed  Field of view  S3° × 41°  Video lamp  Built-in LED light  Laser pointer  Laser distance meter  Laser distance meter  Laser  Laser  Data communication interfaces  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth  Audio  Microphone and speaker for voice annotation of images  USB 109 High Speed  Video lout  Video view  NH.264 (AVC) over RTSP (Wi-Fi)  NHPEG4 over UVC and RTSP (Wi-F	Video streaming	
IR, MSX, visual, Picture in Picture)  ** H.264 (AVC) Over RTSF (Wi-Fi) ** MPEG4 over RTSP (Wi-Fi) ** MJPEG over UVC and R		Over UVC
Digital camera  Resolution 5 MP with LED light  Focus Fixed  Field of view 53° × 41°  Video lamp Built-in LED light  Laser pointer  Laser alignment Position is automatically displayed on the infrared image  Laser distance meter Activated by a dedicated button  Laser Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth Communication with headset and external sensors  Wi-Fi Peer to peer (ad hoc) or infrastructure (network)  Audio Microphone and speaker for voice annotation of images  USB USB Type-C: data transfer/video/power  USB standard USB 2.0 High Speed  Video out DisplayPort		MPEG4 over RTSP (Wi-Fi)
Resolution 5 MP with LED light  Focus Fixed  Field of view 53° × 41°  Video lamp Built-in LED light  Laser pointer  Laser alignment Position is automatically displayed on the infrared image  Laser distance meter Activated by a dedicated button  Laser Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth Communication with headset and external sensors  Wi-Fi Peer to peer (ad hoc) or infrastructure (network)  Audio Microphone and speaker for voice annotation of images  USB USB Type-C: data transfer/video/power  USB standard USB 2.0 High Speed  Video out DisplayPort	Visual video streaming	Yes
Focus Fixed Field of view 53° x 41° Video lamp Built-in LED light  Laser pointer Laser alignment Position is automatically displayed on the infrared image Laser distance meter Activated by a dedicated button  Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth Communication with headset and external sensors Wi-Fi Peer to peer (ad hoc) or infrastructure (network)  Audio Microphone and speaker for voice annotation of images  USB Type-C: data transfer/video/power  USB standard USB 2.0 High Speed  Video out DisplayPort	Digital camera	
Field of view  Video lamp  Built-in LED light  Laser pointer  Laser alignment  Position is automatically displayed on the infrared image  Laser distance meter  Activated by a dedicated button  Laser  Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Audio  Microphone and speaker for voice annotation of images  USB Type-C: data transfer/video/power  USB standard  USB 2.0 High Speed  Video out	Resolution	5 MP with LED light
Video lamp       Built-in LED light         Laser pointer       Position is automatically displayed on the infrared image         Laser distance meter       Activated by a dedicated button         Laser       Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance         Data communication interfaces         Interfaces       USB 2.0, Bluetooth, Wi-Fi, DisplayPort         METERLINK/Bluetooth       Communication with headset and external sensors         Wi-Fi       Peer to peer (ad hoc) or infrastructure (network)         Audio       Microphone and speaker for voice annotation of images         USB       USB Type-C: data transfer/video/power         USB standard       USB 2.0 High Speed         Video out       DisplayPort	Focus	Fixed
Laser pointer  Laser alignment Position is automatically displayed on the infrared image  Laser distance meter Activated by a dedicated button  Laser Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLiNK/Bluetooth Communication with headset and external sensors  Wi-Fi Peer to peer (ad hoc) or infrastructure (network)  Audio Microphone and speaker for voice annotation of images  USB Type-C: data transfer/video/power  USB standard USB 2.0 High Speed  Video out DisplayPort	Field of view	53° × 41°
Laser alignment  Position is automatically displayed on the infrared image  Laser distance meter  Activated by a dedicated button  Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLiNK/Bluetooth  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Audio  Microphone and speaker for voice annotation of images  USB Type-C: data transfer/video/power  USB standard  USB 2.0 High Speed  Video out	Video lamp	Built-in LED light
image  Laser distance meter  Activated by a dedicated button  Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLiNK/Bluetooth  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Audio  Microphone and speaker for voice annotation of images  USB Type-C: data transfer/video/power  USB standard  USB 2.0 High Speed  Video out  DisplayPort	Laser pointer	
Laser  Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLiNK/Bluetooth  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Audio  Microphone and speaker for voice annotation of images  USB Type-C: data transfer/video/power  USB standard  USB 2.0 High Speed  Video out  DisplayPort	Laser alignment	1 .
measured distance       Data communication interfaces       Interfaces     USB 2.0, Bluetooth, Wi-Fi, DisplayPort       METERLiNK/Bluetooth     Communication with headset and external sensors       Wi-Fi     Peer to peer (ad hoc) or infrastructure (network)       Audio     Microphone and speaker for voice annotation of images       USB     USB Type-C: data transfer/video/power       USB standard     USB 2.0 High Speed       Video out     DisplayPort	Laser distance meter	Activated by a dedicated button
Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Audio  Microphone and speaker for voice annotation of images  USB  USB Type-C: data transfer/video/power  USB standard  USB 2.0 High Speed  Video out  DisplayPort	Laser	
METERLiNK/Bluetooth  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Audio  Microphone and speaker for voice annotation of images  USB Type-C: data transfer/video/power  USB standard  USB 2.0 High Speed  Video out  DisplayPort	Data communication interfaces	
sensors  Wi-Fi Peer to peer (ad hoc) or infrastructure (network)  Audio Microphone and speaker for voice annotation of images  USB USB Type-C: data transfer/video/power  USB standard USB 2.0 High Speed  Video out DisplayPort	Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
Audio Microphone and speaker for voice annotation of images  USB USB Type-C: data transfer/video/power  USB standard USB 2.0 High Speed  Video out DisplayPort	METERLiNK/Bluetooth	
USB Type-C: data transfer/video/power USB standard USB 2.0 High Speed Video out DisplayPort	Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
USB standard USB 2.0 High Speed Video out DisplayPort	Audio	l . · · · ·
Video out DisplayPort	USB	USB Type-C: data transfer/video/power
	USB standard	USB 2.0 High Speed
Video connector type DisplayPort over USB Type-C	Video out	DisplayPort
	Video connector type	DisplayPort over USB Type-C



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Radio	
Operating frequency	Bluetooth + EDR/LE: 2402–2480 MHz
	WLAN 2.4 GHz: 2412–2462 MHz
	WLAN 5 GHz: 5150–5350 MHz (DFS: only slave mode)
	Note that frequency band 5150–5350 MHz is for indoor use only, see national regulations.
RF output (EIRP)	Bluetooth + EDR/LE: < 10 dBm
	WLAN: < 17 dBm
Antenna	Integrated PIFA antenna (gain: maximum 1.4 dBi)
Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode
Environmental data	
Operating temperature range	-15 to +50°C (5-122°F)
Storage temperature range	-40 to +70°C (-40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (immunity)</li> <li>EN 61000-6-3 (emission)</li> <li>FCC 47 CFR part 15 B, class B (emission)</li> </ul>
Radio spectrum	ETSI EN 300 328     ETSI EN 301 893     FCC 47 CFR part 15 C     FCC 47 CFR part 15 E
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	Camera:
-	IEC/EN 60950-1, IEC/EN 62368-1
	Power supply:
	IEC/EN 62368-1     CSA/UL/KC/SAA/PSE 60950-1

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Physical data	
Physical data	4 lov (0.0 lb.)
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size $(L \times W \times H)$	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC 1/4"-20
Housing material	PCABS with TPE, magnesium
Color	Black
Warranty and service	
Warranty	http://www.flir.com/warranty/
Shipping information	
Packaging, type	Cardboard box
Packaging, contents  Packaging, weight	Accessory Box I: Power supply for battery charger Power supply, 15 W/3 A Printed documentation SD card (8 GB) USB 2.0 A to USB Type-C cable, 1.0 m USB Type-C to HDMI adapter, standard specification UH311 USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m  Accessory box III: Front protection fastener Hand strap bracket, left Hand strap bracket, right Screws Torx T10 wrench Carabiner hook Front protection Hand strap Lanyard strap, camera Lens cap strap Wrist strap Battery (2 ea) Battery (2 ea) Battery charger Extra lens, 42° FILIR Thermal Studio Starter Hard transport case Infrared camera with lens Lens cap, front Lens cap, front Lens cap, front Lens cap, front and rear (only for extra lenses)
Packaging, weight	6.2 kg (13.7 lb.)
	$500 \times 190 \times 370 \text{ mm} (19.7 \times 7.5 \times 14.6 \text{ in.})$
Packaging, size	500 x 190 x 570 11111 (19.7 x 7.5 x 14.0 111.)
Packaging, size EAN-13	4743254004634
	` ' '

## Supplies & accessories:

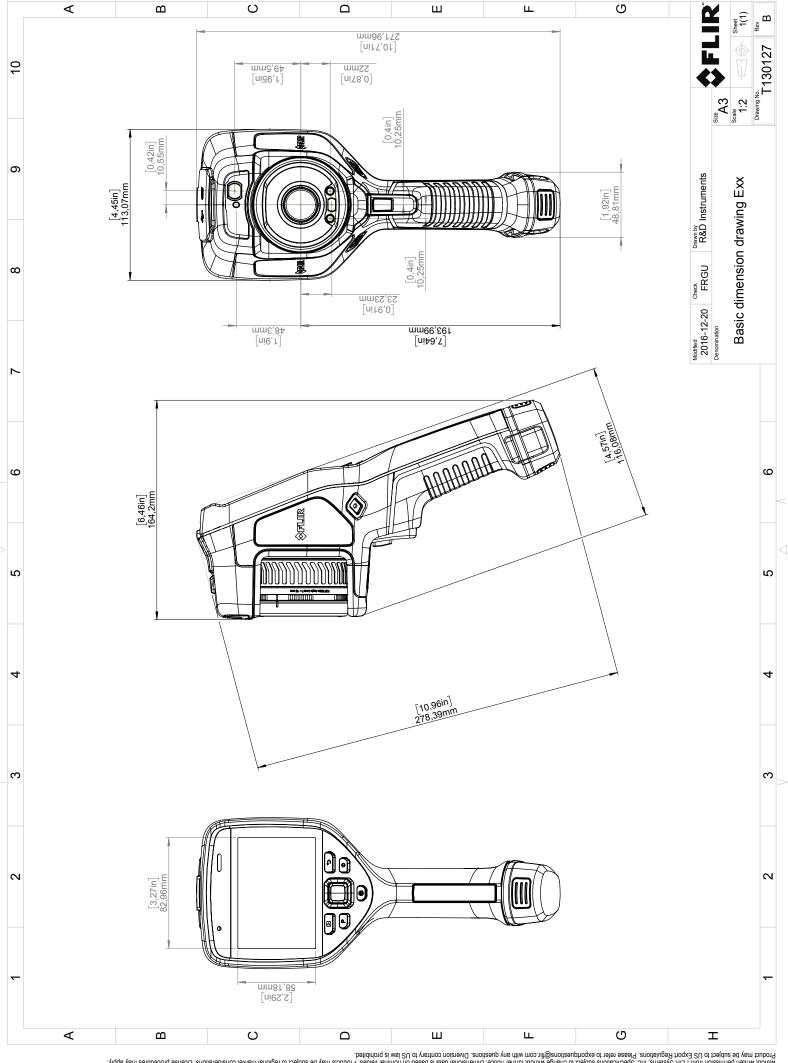
- T300238; Macro lens 2.0x with case
- T131171ACC; Remote operation button
- T300030; Option, No radioT911997; Tripod

# **\$FLIR**

## **FLIR E76 24° + 42°**

#### P/N: 78515-1101

- T911998; HDMI 2-port video splitter
- T300369; Mounting kit (FLIR T5xx, T8xx, Exx)
- T850111; Option, Dual streaming
- T130337ACC; Calibration target
- T199330ACC; Battery
- T199346ACC; Hard transport case for FLIR Exx series
- T199425ACC; Battery charger
- T199557ACC; Accessory Box II
- T199559; High temperature option, +300 to +1000°C
- T911630ACC; Power supply for camera, 15 W/3 A
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911633ACC; Power supply for battery charger
- T911689ACC; Pouch for FLIR E-series
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911706ACC; Car adapter 12 V
- T911845ACC; USB Type-C to HDMI and PD adapter
- T911846ACC; USB 2.0 A to USB Type-C with Power supply
- T300437ACC; Lens case
- T199589; IR lens, f=17 mm (24°) with case
- T199588: IR lens. f=29 mm (14°) with case
- T199590; IR lens, f=10 mm (42°) with case
- T197771ACC: Bluetooth Headset
- T300244; FLIR Route Creator Plugin for FLIR Thermal Studio Pro, 1 Year Subscription
- T300342; FLIR Screen-EST, Perpetual license
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300341; FLIR Thermal Studio Standard, 1 Year Subscription
- T300258; FLIR Thermal Studio Standard, Perpetual license
- T198583; FLIR Tools+ (download card incl. license key)
- 4232535; FLIR Research Studio, Professional Edition 1 Year Subscription (online activation)
- 4232556; FLIR Research Studio, Professional Edition Perpetual License (online activation)
- 4232590; FLIR Research Studio, Professional Edition Perpetual License (USB dongle)
- 4232557; FLIR Research Studio, Professional Edition USB dongle only
- 4220499; FLIR Research Studio, Standard Edition 1 Year Subscription (online activation)
- 4220500; FLIR Research Studio, Standard Edition Perpetual License (online activation)
- 4220646; FLIR Research Studio, Standard Edition Perpetual License (USB dongle)
- 24971-010; FLIR Research Studio, Standard Edition USB dongle only
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- 4232591; FLIR ResearchIR to Research Studio, Professional Edition 1 Year License Upgrade
- INST-EW-0140; Extended Warranty 1 Year for E53, E75, E85, E95
- INST-EWGM-0135; Premium Service Package for A35, A65, E53, E75, E85, E95
- INST-GM-0125; General Maintenance Package for A35, A65, Exx, Kxx



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July 07, 2021 Täby, Sweden AQ320222

### CE Declaration of Conformity - EU Declaration of Conformity

Product: FLIR E53 /E54 /E75 /E76 /E85 /E86 /E95 /E96 -series

Name and address of the manufacturer:

FLIR Systems AB PO Box 7376

SE-187 15 Täby, Sweden

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration: FLIR E53 /E54 /E75 /E76 /E85 /E86 / E95 /E96-series (Product Model Name FLIR-E7850).

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

**Directives:** 

Directive 2012/19/EU Waste electrical and electric equipment

Directive 2014/53/EU Radio Equipment Directive (RED)

Directive 1999/519/EC Limitation of exposure to electromagnetic fields (SAR)

Directive 2011/65/EU RoHS and 2015/830/EU

**Standards:** 

Emission: EN 61000-6-3/A1:2011 Electromagnetic Compability

Generic standards – Emission

Immunity: EN 61000-6-2:2005 Electromagnetic Compability

Draft EN 301489-1:2016 v2.1.0 Generic standards – Immunity

EN 301489-17:2012 v2.2.1

Laser: EN 60825-1 Safety of laser products

Radio: ETSI EN 300 328 v2.2.2 Harmonized EN covering essential

requirements of the R&TTE Directive

ETSI EN 301 893 v1.8.1 Harmonized EN covering essential regs

SAR: EN 62209-2 Human exposure Wireless

Safety (Battery charger): Information technology equipment

IEC 62368-1: 2014 (2.Edition) and Cor. 1: 2015

EN 62368-1: 2014/AC: 2015/A11: 2017/AC:2017

RoHS: EN 50581:2012 Technical documentation

**FLIR Systems AB** 

**Quality Assurance** 

Lea Dabiri

**Quality Manager**