

P/N: 79302-0101

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Website

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Customer support

http://support.flir.com

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Imaging and optical data Infrared resolution 320 × 240 pixels UltraMax (super-resolution)1 Yes NETD <40 mK @ +30°C (+86°F) Field of view 24° × 18° Minimum focus distance • 0.15 m (0.49 ft.) • Macro mode 103 µm as option Minimum focus distance with MSX 0.5 m (1.64 ft.) Focal length 17 mm (0.67 in.) Spatial resolution (IFOV) 1.31 mrad/pixel Available extra lenses • 42° (AutoCal) • 1.4° (AutoCal) • 6° (service calibration required) • 6° (service calibration required) Lens identification Automatic f number 1.3 Image frequency 30 Hz Focus • Continuous LDM • One-shot LDM • One-shot CDM • One-shot CDM • One-shot CDM • Ogtal zoom 1-4× continuous Field of view match Yes Digital zoom 1-4× continuous Focal plane array/spectral range Uncooled microbolometer/7.5-14 µm		
UltraMax (super-resolution)1 Yes NETD <40 mK @ +30°C (+86°F) Field of view 24° x 18° Minimum focus distance • 0.15 m (0.49 ft.) Minimum focus distance with MSX 0.5 m (1.64 ft.) Focal length 17 mm (0.67 in.) Spatial resolution (IFOV) 1.31 mrad/pixel Available extra lenses • 42° (AutoCal) • 6° (service calibration required) Lens identification Automatic f number 1.3 Image frequency 30 Hz Focus • Continuous LDM • One-shot CDM One-shot contrast • Manual Field of view match Yes Digital zoom 1-4× continuous Detector data Focal plane array/spectral range Focal plane array/spectral range Uncooled microbolometer/7.5-14 µm Detector pitch 17 µm	Imaging and optical data	
NETD <40 mK @ +30°C (+86°F)	Infrared resolution	320×240 pixels
NameHomme for a constraint of the set of	UltraMax (super-resolution) ¹	Yes
Minimum focus distance• 0.15 m (0.49 ft.) • Macro mode 103 µm as optionMinimum focus distance with MSX0.5 m (1.64 ft.)Focal length17 mm (0.67 in.)Spatial resolution (IFOV)1.31 mrad/pixelAvailable extra lenses• 42° (AutoCal) • 14° (AutoCal) • 6° (service calibration required)Lens identificationAutomaticf number1.3Image frequency30 HzFocus• Continuous LDM • One-shot LDM • One-shot contrast • ManualField of view matchYesDigital zoom1-4× continuousDetector dataUncooled microbolometer/7.5–14 µmDetector pitch17 µmImage presentation640 × 480 pixels (VGA)	NETD	<40 mK @ +30°C (+86°F)
• 0.15 m (0.49 ft.) • Macro mode 103 μm as option Minimum focus distance with MSX 0.5 m (1.64 ft.) Focal length 17 mm (0.67 in.) Spatial resolution (IFOV) 1.31 mrad/pixel Available extra lenses • 42° (AutoCal) • 14° (AutoCal) • 6° (service calibration required) Lens identification Automatic f number 1.3 Image frequency 30 Hz Focus • Continuous LDM • One-shot LDM • One-shot contrast • Manual Field of view match Yes Digital zoom 1-4× continuous Focal plane array/spectral range Uncooled microbolometer/7.5–14 μm Detector data 17 μm Fesolution 640 × 480 pixels (VGA)	Field of view	24° × 18°
Focal length17 mm (0.67 in.)Spatial resolution (IFOV)1.31 mrad/pixelAvailable extra lenses• 42° (AutoCal) • 14° (AutoCal) • 6° (service calibration required)Lens identificationAutomaticf number1.3Image frequency30 HzFocus• Continuous LDM • One-shot LDM • One-shot contrast • ManualField of view matchYesDigital zoom1-4× continuousFocal plane array/spectral rangeUncooled microbolometer/7.5–14 µmImage presentation17 µmResolution640 × 480 pixels (VGA)	Minimum focus distance	
Spatial resolution (IFOV)1.31 mrad/pixelAvailable extra lenses- 42° (AutoCal) - 14° (AutoCal) - 6° (service calibration required)Lens identificationAutomaticf number1.3Image frequency30 HzFocus- Continuous LDM - One-shot LDM - One-shot contrast - ManualField of view matchYesDigital zoom1-4× continuousPocus protector data-Focus protector pitch17 μmImage presentation640 × 480 pixels (VGA)	Minimum focus distance with MSX	0.5 m (1.64 ft.)
Available extra lenses· 42° (AutoCal) · 14° (AutoCal) · 6° (service calibration required)Lens identificationAutomaticf number1.3Image frequency30 HzFocus· Continuous LDM · One-shot LDM · One-shot contrast · ManualField of view matchYesDigital zoom1-4× continuousPoctor dataIncooled microbolometer/7.5–14 µmFocus presentation17 µmImage presentation640 × 480 pixels (VGA)	Focal length	17 mm (0.67 in.)
• 42° (AutoCal) • 14° (AutoCal) • 6° (service calibration required) Lens identification f number Image frequency 30 Hz Focus • Continuous LDM • One-shot LDM • One-shot LDM • One-shot contrast • Manual Field of view match Yes Digital zoom 1-4× continuous Petector data Focal plane array/spectral range Uncooled microbolometer/7.5–14 µm Detector pitch 17 µm Image presentation Resolution 640 × 480 pixels (VGA)	Spatial resolution (IFOV)	1.31 mrad/pixel
f number 1.3 Image frequency 30 Hz Focus • Continuous LDM • One-shot LDM • One-shot contrast • Manual • Manual Field of view match Yes Digital zoom 1-4× continuous Detector data	Available extra lenses	• 14° (AutoCal)
Image frequency 30 Hz Focus • Continuous LDM • One-shot LDM • One-shot contrast • Manual • 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 640 × 480 pixels (VGA)	Lens identification	Automatic
Focus • Continuous LDM • One-shot LDM • One-shot contrast • One-shot contrast • Manual Field of view match Yes Digital zoom 1-4× continuous Detector data Image presentation Image presentation 640 × 480 pixels (VGA)	f number	1.3
 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 Fesolution 640 × 480 pixels (VGA) 	Image frequency	30 Hz
Digital zoom 1-4× continuous Detector data Focal plane array/spectral range Uncooled microbolometer/7.5–14 μm Detector pitch 17 μm Image presentation 640 × 480 pixels (VGA)	Focus	One-shot LDMOne-shot contrast
Detector data Uncooled microbolometer/7.5–14 μm Focal plane array/spectral range Uncooled microbolometer/7.5–14 μm Detector pitch 17 μm Image presentation 640 × 480 pixels (VGA)	Field of view match	Yes
Focal plane array/spectral range Uncooled microbolometer/7.5–14 μm Detector pitch 17 μm Image presentation 640 × 480 pixels (VGA)	Digital zoom	1-4× continuous
Detector pitch 17 μm Image presentation 640 × 480 pixels (VGA)	Detector data	
Image presentation 640 × 480 pixels (VGA)	Focal plane array/spectral range	Uncooled microbolometer/7.5–14 µm
Resolution 640 × 480 pixels (VGA)	Detector pitch	17 μm
	Image presentation	
Surface brightness (cd/m ²) 400	Resolution	640 × 480 pixels (VGA)
	Surface brightness (cd/m ²)	400

1. Not supported when using macro.





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Image presentationScreen size4 in.Viewing angle80°Color depth (bits)24Aspect ratio4:3Auto-rotationYesTouchscreenOptically bonded PCAPDisplay technologyIPS		
Viewing angle 80° Color depth (bits) 24 Aspect ratio 4:3 Auto-rotation Yes Touchscreen Optically bonded PCAP		
Color depth (bits) 24 Aspect ratio 4:3 Auto-rotation Yes Touchscreen Optically bonded PCAP		
Aspect ratio 4:3 Auto-rotation Yes Touchscreen Optically bonded PCAP		
Auto-rotation Yes Touchscreen Optically bonded PCAP		
Touchscreen Optically bonded PCAP		
Display technology IPS		
Cover glass material Dragontrail®		
Programmable buttons 2		
Viewfinder No		
Image adjustment Automatic Automatic maximum Automatic minimum Manual	Automatic maximumAutomatic minimum	
Image presentation modes		
Infrared image Yes		
Visual image Yes		
MSX Yes	Yes	
Picture in picture Resizable and movable	Resizable and movable	
Gallery Yes		
Measurement		
Camera temperature range Object temperature range Accuracy — for ambient temperature +15 to +35°C to +95°F)	(+59	
-20 to +120°C (-4 to +248°F) -20 to +100°C (-4 to +212°F) ±2°C (±3.6°F)		
+100 to +120°C (+212 to +248° ±2% F)		
0 to +650°C (+32 to +1202°F) 0 to +100°C (+32 to +212°F) ±2°C (±3.6°F)		
+100 to + 650°C (+212 to ±2% +1202°F)		
Optional +300 to +1200°C +300 to +1200°C (+572 to ±2% (+572 to +2192°F) ±2192°F) ±2%		
Screening mode		
Sampling average mode Recommended temperature range: 30 to 45 (86 to 113°F) in stable room temperature		
Accuracy (drift): ±0.3°C (±0.5°F) ²	Accuracy (drift): ±0.3°C (±0.5°F) ²	
Measurement analysis		
Spotmeter 3 in live mode	3 in live mode	
Area 3 in live mode	3 in live mode	
Automatic hot/cold detection Automatic maximum/minimum markers withi area	Automatic maximum/minimum markers within area	

^{2.} No external blackbody needed.





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Measurement analysis	
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	 Iron Gray Rainbow Arctic Lava 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
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
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 with built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

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Image annotations	
Area measurement information	Yes
GPS	Location data automatically added to every still image and 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)	Over UVC
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	 H.264 (AVC) over RTSP (Wi-Fi) MPEG4 over RTSP (Wi-Fi) MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes
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 dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 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
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	> 4 hours at 25°C (77°F) with typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
Charging temperature	$0^\circ C$ 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)/2 cycles
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 Class B (emission)
Radio spectrum	 ETSI EN 300 228 FCC Part 15.249 RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight (including battery)	1.3 kg (2.9 lb.)
Size (L × W × H)	 Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in.) Lens horisontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size $(L \times W \times H)$	$59 \times 66 \times 94$ mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC 1/4"-20



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Physical data	
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	 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 USB Type-C to HDMI and PD adapter USB Type-C to USB Type-C cable (USB 2.0 standard) Accessory box II: Lens cap strap Lens cleaning cloth Neck strap Battery (2 ea) Battery charger FLIR Thermal Studio Pro license card (1 year subscription) Hard transport case Infrared camera with lens Lens cap, front Lens cap, front and rear (only for extra lenses)
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	7332558012925
UPC-12	845188014612
Country of origin	Sweden

Supplies and accessories:

- T300238; Macro lens 2.0x with case
- T199300ACC; Battery
- T199610; Battery charger
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case for FLIR T8xx, T5xx, and GF7x series
- T199616; Option, High temperature, +300 to +1200°C
- T300030; Option, No radio
- T199609; Option, Macro mode 50/71/101 μm for 24°
- T850105; FLIR Inspection Route Camera Option
- T130337ACC; Calibration target
- T199588; IR lens, f=29 mm (14°) with case
- T199589; IR lens, f=17 mm (24°) with case
- T199590; IR lens, f=10 mm (42°) with case
- T300095; IR lens, f=70 mm (6°) with case
- 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
- 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



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- T911846ACC; USB 2.0 A to USB Type-C with Power supply
- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T300244; FLIR Route Creator Plugin for FLIR Thermal Studio Pro, 1 Year Subscription
- T300243; FLIR Thermal Studio Pro, 1 Year Subscription
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300258; FLIR Thermal Studio, Perpetual license
- T198583; FLIR Tools+ (download card incl. license key)
- 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)
- 4220499; FLIR Research Studio 1 Year Subscription (online activation)
- 4220500; FLIR Research Studio Perpetual License (online activation)
- 4220646; FLIR Research Studio Perpetual License (USB dongle)
- INST-EW-0145; Extended Warranty 1 Year for T530
- INST-EWGM-0155; Premium Service Package for A3xx, T4xx mkll, T530
- INST-GM-0140; General Maintenance Package for T530