

P/N: 82510-0201

Copyright

© 2022, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

Document identity

Publ. No.: 82510-0201 Commit: 85887 Language: Modified: 2022-06-22

Modified: 2022-06-22 Formatted: 2022-06-22

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.



464 × 348 pixels
Yes
• <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
• 24° × 18° • 14° × 10°
 0.18 m (0.49 ft.), 24° 1.0 m (3.28 ft.), 14° Macro mode 71 μm as option to 24°
• 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
• 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
0.92 mrad/pixel, 24° 0.52 mrad/pixel, 14°
42° (AutoCal) 6° (service calibration required)
Automatic
• 1.3, 24° • 1.3, 14°
30 Hz
Continuous LDM One-shot LDM One-shot contrast Manual
Yes
1–6× continuous
Uncooled microbolometer/7.5–14 µm
17 μm

^{1.} Not supported when using macro.



P/N: 82510-0201

© 2022, FLIR Systems, Inc. #82510-0201; r. 85887;

Image presentation	
Resolution (display)	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	2
Viewfinder	Yes
Image adjustment	Automatic Automatic maximum Automatic minimum Manual
Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes
Measurement	
Camera temperature range	-20 to 120°C (-4 to 248°F) 0 to 650°C (32 to 1202°F) 300 to 1500°C (572 to 2732°F)
Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)	 Range -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°F): ±2% Range 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 1202°F): ±2% Range 300 to 1500°C (572 to 2732°F): ±2%
Inspection mode	<u> </u>
FLIR Inspection route	Enabled in the camera
Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Measurement presets	 No measurements Center spot Hot spot Cold spot User preset 1



P/N: 82510-0201

© 2022, FLIR Systems, Inc. #82510-0201; r. 85887;

Measurement analysis	
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) Measurement function alarm	Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation Audible/visual alarms (above/below) on any
Weasurement function alarm	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
Languages Service functions	21
	21 Using USB cable or SD card
Service functions	
Service functions Camera software update	
Service functions Camera software update Storage of images	Using USB cable or SD card • Removable memory: SD card
Service functions Camera software update Storage of images Storage media	Using USB cable or SD card Removable memory: SD card FLIR Ignite Cloud services (with Wi-Fi)
Service functions Camera software update Storage of images Storage media Time lapse (Periodic image storage)	Using USB cable or SD card Removable memory: SD card FLIR Ignite Cloud services (with Wi-Fi) 10 seconds to 24 hours (infrared)
Service functions Camera software update Storage of images Storage media Time lapse (Periodic image storage) Remote control operation	Using USB cable or SD card Removable memory: SD card FLIR Ignite Cloud services (with Wi-Fi) 10 seconds to 24 hours (infrared) Using USB cable or Wi-Fi Standard JPEG, measurement data included.
Service functions Camera software update Storage of images Storage media Time lapse (Periodic image storage) Remote control operation Image file format	Using USB cable or SD card Removable memory: SD card FLIR Ignite Cloud services (with Wi-Fi) 10 seconds to 24 hours (infrared) Using USB cable or Wi-Fi Standard JPEG, measurement data included.
Service functions Camera software update Storage of images Storage media Time lapse (Periodic image storage) Remote control operation Image file format Image annotations	Using USB cable or SD card Removable memory: SD card FLIR Ignite Cloud services (with Wi-Fi) seconds to 24 hours (infrared) Using USB cable or Wi-Fi Standard JPEG, measurement data included. Infrared-only mode.
Service functions Camera software update Storage of images Storage media Time lapse (Periodic image storage) Remote control operation Image file format Image annotations Voice	Using USB cable or SD card Removable memory: SD card FLIR Ignite Cloud services (with Wi-Fi) Seconds to 24 hours (infrared) Using USB cable or Wi-Fi Standard JPEG, measurement data included. Infrared-only mode. 60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video Text from predefined list or soft keyboard on
Service functions Camera software update Storage of images Storage media Time lapse (Periodic image storage) Remote control operation Image file format Image annotations Voice Text	Using USB cable or SD card Removable memory: SD card FLIR Ignite Cloud services (with Wi-Fi) seconds to 24 hours (infrared) Using USB cable or Wi-Fi Standard JPEG, measurement data included. Infrared-only mode. 60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video Text from predefined list or soft keyboard on touchscreen
Service functions Camera software update Storage of images Storage media Time lapse (Periodic image storage) Remote control operation Image file format Image annotations Voice Text Visual image annotation	Using USB cable or SD card Removable memory: SD card FLIR Ignite Cloud services (with Wi-Fi) Seconds to 24 hours (infrared) Using USB cable or Wi-Fi Standard JPEG, measurement data included. Infrared-only mode. 60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video Text from predefined list or soft keyboard on touchscreen Yes
Service functions Camera software update Storage of images Storage media Time lapse (Periodic image storage) Remote control operation Image file format Image annotations Voice Text Visual image annotation Image sketch	Using USB cable or SD card Removable memory: SD card FLIR Ignite Cloud services (with Wi-Fi) Seconds to 24 hours (infrared) Using USB cable or Wi-Fi Standard JPEG, measurement data included. Infrared-only mode. 60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video Text from predefined list or soft keyboard on touchscreen Yes Yes: on infrared only
Service functions Camera software update Storage of images Storage media Time lapse (Periodic image storage) Remote control operation Image file format Image annotations Voice Text Visual image annotation Image sketch Sketch	Using USB cable or SD card Removable memory: SD card FLIR Ignite Cloud services (with Wi-Fi) Seconds to 24 hours (infrared) Using USB cable or Wi-Fi Standard JPEG, measurement data included. Infrared-only mode. 60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video Text from predefined list or soft keyboard on touchscreen Yes Yes: on infrared only From touchscreen Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Service functions Camera software update Storage of images Storage media Time lapse (Periodic image storage) Remote control operation Image file format Image annotations Voice Text Visual image annotation Image sketch Sketch	Using USB cable or SD card Removable memory: SD card FLIR Ignite Cloud services (with Wi-Fi) Using USB cable or Wi-Fi Standard JPEG, measurement data included. Infrared-only mode. 60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video Text from predefined list or soft keyboard on touchscreen Yes Yes: on infrared only From touchscreen Wireless connection (Bluetooth) to:



P/N: 82510-0201

© 2022, FLIR Systems, Inc. #82510-0201; r. 85887;

	T
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
	3 1
Video out	DisplayPort
Video out Video connector type	DisplayPort DisplayPort over USB Type-C



P/N: 82510-0201

© 2022, FLIR Systems, Inc. #82510-0201; r. 85887;

Radio	
Operating frequency	Bluetooth + EDR/LE: 2402–2480 MHz
apolaung noquency	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 (68°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°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
Battery documents	For documents like MSDS and UN38.3 test reports/summaries, see: https://support.flir.com/resources/msds
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 B, class B (emission)
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)
Safety	Camera: • IEC/EN 60950-1, IEC/EN 62368-1 Power supply: • IEC/EN 62368-1 • CSA/UL/KC/SAA/PSE 60950-1
Declaration of conformity	See: https://support.flir.com/resources/DoC



P/N: 82510-0201

© 2022, FLIR Systems, Inc. #82510-0201; r. 85887;

Physical data	
Weight (including battery)	1.4 kg (3.1 lb.)
Size (L × W × H)	 Lens vertical: 164.3 × 201.3 × 84.1 mm (6.5 × 7.9 × 3.3 in.) Lens horisontal: 164.3 × 201.3 × 173.3 mm (6.5 × 7.9 × 6.8 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 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	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 Small eyecup Battery (2 ea) Battery charger Hard transport case Infrared camera with lens Lens cap, front Lens cap, front Lens cap: TLIR Thermal Studio Pro (3 month subscription) FURD TRANSPORT TO THE TRANSPOR
Packaging, weight	6.3 kg (13.9 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	7332558029602
UPC-12	845188026660
Country of origin	Sweden

Supplies & accessories:

- T300238; Macro lens 2.0x with case
- T300095; IR lens, f=70 mm (6°) with case
- T300587; IR lens Dual FOV, f=17/29 mm (24°/14°) with case
- T131171ACC; Remote operation button
- T199300ACC; Battery
- T199347ACC; Hard transport case for FLIR T8xx, T5xx, and GF7x series
- T199610; Battery charger
- T300030; Option, No radio



P/N: 82510-0201

© 2022, FLIR Systems, Inc. #82510-0201; r. 85887;

- T911997; Tripod
- T911998; HDMI 2-port video splitter
- T300369; Mounting kit (FLIR T5xx, T8xx, Exx)
- T130531ACC; Large eyecup
- · T300188; Hand strap and neck strap
- T300493ACC; Industrial protective lens window
- T850105; FLIR Inspection Route Camera Option
- T850111; Option, Dual streaming
- T199609; Option, Macro mode 50/71/101 μm for 24°
- T130337ACC; Calibration target
- T911630ACC; Power supply for camera, 15 W/3 A
- 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
- T911846ACC; USB 2.0 A to USB Type-C with Power supply
- T911940ACC; USB 2.0 A to USB Type-C cable, 1.0 m
- T300437ACC; Lens case
- 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
- T198495: Pouch
- T197771ACC: Bluetooth Headset
- T300244; FLIR Route Creator Plugin for FLIR Thermal Studio Pro, 1 Year Subscription
- T300439; FLIR Route Creator Plugin for FLIR Thermal Studio Pro, Perpetual license
- T300342; FLIR Screen-EST, Perpetual license
- T300243; FLIR Thermal Studio Pro, 1 Year Subscription
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300341; FLIR Thermal Studio Standard, 1 Year Subscription
- T300258; FLIR Thermal Studio Standard, Perpetual license
 T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license kev)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)