

P/N: 89401-0101

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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	
IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	< 70 mK
Field of view (FOV)	54° × 42°
Minimum focus distance	- Thermal: 0.1 m (0.32 ft) - MSX: 0.3 m (0.98 ft)
Spatial resolution (IFOV)	6.3 mrad/pixel
F-number	1.1
Image frequency	8.7 Hz
Focus	Focus free
Digital zoom	Yes, zoom pinch, 1–4× continuous
Detector data	
Detector type	Focal plane array, uncooled microbolometer
Spectral range	8–14 μm
Detector pitch	12 μm
Image presentation	
Display resolution	640 × 480 pixels
Screen size	3.5 in
Aspect ratio	4:3
Auto orientation	Yes
Touch screen	Yes, capacitive
Display technology	IPS
Image adjustment	- Automatic level and span - Manual level and span 1-Touch level and span

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Image presentation	
Image modes	- Infrared image - Visual image - MSX - Picture in picture (IR area on visual image)
Gallery	Yes, incl. thumbnails and custom folder structure
Measurement	
Object temperature range	–20 to 400°C (–4 to 752°F)
Accuracy at ambient temp. 10 to 35°C (50 to 95°F) and object temp. above 0°C (32°F)	0 to 100°C (32 to 212°F): ±3°C (±5.5°F) 100 to 400°C (212 to 752°F): ±3%
Measurement analysis	
Measurement functions	- Spot - Box with max./min.
Measurements correction	- Emissivity; matt/semi-matt/semi-glossy + custom value - Reflected apparent temperature - Atmospheric compensation
Color palettes	- Iron - Gray - Rainbow - Arctic - Lava - Rainbow HC
Set-up	
Set-up commands	- Local adaptation of units, language, date and time formats - Screen brightness (high, medium, low)
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Spanish, Swedish, traditional Chinese, Turkish
Service functions	
Camera software update	USB via computer
Storage of images	
Storage media	Built-in
Image storage capacity	> 5000 sets of images
Image file format	Standard JPEG, 14-bit measurement data included
Image annotations	
Text	Soft keyboard on touchscreen, auto-prompt for note when image is saved

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Video streaming	
Non-radiometric video streaming	Yes; MSX, Thermal, Visual, Picture in Picture. USB Video Class colorized uncompressed with overlay 9 Hz.
Digital camera	
Resolution	5 MP
Focus	Fixed
Field of view	71.5 ° × 56° (84° diagonal)
Video lamp	Yes
Data communication interfaces	
Wi-Fi	No
USB	USB 2.0, Type-C connector
Bluetooth	No
Radio	
Wi-Fi	No
Bluetooth + EDR	No
Power system	
Battery type	Rechargeable Li ion battery (built-in)
Battery voltage	3.7 V
Battery capacity	1800 mAh
Battery operating time	4 hours
Battery charge life	>500 cycles
Charging system	USB-C (1 A)
Charging time	2 hours
Charging temperature	35°C (95°F)
External power operation	5 V, USB-C
Power management	Adjustable stand-by and automatic shut-down
Battery documents	For documents like MSDS and UN38.3 test reports/summaries, see: https://support.flir.com/resources/msds
Environmental data	
Operating temperature range	–10 to 50°C (14 to 122°F)
Storage temperature range	–40 to 70°C (–40 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
Relative humidity	95% relative humidity 25°C to 40°C (77°F to 104°F) non-condensing
EMC	• EN 301 487-1 • EN 301 489-17 • FCC 47 CFR Part 15 Class B
Magnetic fields	EN 61000-4-8 level 5
Radio spectrum	No

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Environmental data	
Battery regulations	- UL 1642 - EN 62133 ed 2
Battery charging efficiency	- BC Title 20 10 CFR Section 430.23 (aa)
Encapsulation	Camera housing and lens: IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	Designed for 2 m (6.56 ft)
Safety	EN 62368-1
Environmental safety	- REACH Regulation EC 1907/2006 - RoHS2 Directive 2011/65/EC - WEEE Directive 2012/19/EC - Proposition 65
Declaration of conformity	See: https://support.flir.com/resources/DoC
Physical data	
Weight (including battery)	0.19 kg (0.42 lb)
Size (L × W × H)	138 × 84 × 24 mm (5.4 × 3.3 × 0.94 in)
Battery weight	40 g (1.4 oz)
Tripod mounting	UNC ¼"-20
Housing material	- PC and ABS, partially covered with TPE - Aluminum
Color	Black
Warranty and service	
Warranty	http://www.flir.com/warranty/
Shipping information	
Packaging, type	Cardboard box
Packaging, contents	- C5 - Printed documentation - FLIR Thermal Studio Starter - Wrist strap lanyard - USB cable - Pouch
Packaging, weight	0.52 kg (1.14 lb)
Packaging, size	160 × 118 × 93 mm (6.3 × 4.6 × 3.7 in)
EAN-13	4743254004450
UPC-12	845188021825
Country of origin	Estonia

Supplies & accessories:

- T911940ACC; USB 2.0 A to USB Type-C cable, 1.0 m
- T199871; Traceable Calibration for C5
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300341; FLIR Thermal Studio Standard, 1 Year Subscription



FLIR C5

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- T300258; FLIR Thermal Studio Standard, Perpetual license

