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Flir i65

P/N: 18455-0201

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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.



General	
Title	Flir i65
Part number	18455-0201
Imaging and optical data	
IR resolutionb	480 × 640 pixels
Thermal sensitivity/NETD	<40 mK at 30°C (86°F)
Field of view (FOV)	37°x49°
Minimum focus distance	0.5 m
Spatial resolution (IFOV)	1.5 mrad
F-number	1.4
Image frequency	30 Hz
Focus	Fixed focus
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
User interface	
Display	5 in. 720 × 1280 color LCD
Touch screen	Capacitive touch
Text	Text annotation on image using onscreen keyboard
Flashlight	Manually activated bright LED
Laser pointer	
Laser	Class 2, 0.05–40 m (1.6–131 ft.)
Laser alignment	Position is automatically displayed on the infrared image
Image presentation	
Display	5 in. 720 × 1280 color LCD
Image adjustment	Automatic/Manual
Image presentation modes	
Image modes	Thermal MSX, Thermal, Picture-in-Picture, Digital camera.
Multi Spectral Dynamic Imaging (MSX)	IR image enhanced with visible camera detail

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Picture in Picture	IR area on visual image
Measurement	
Camera temperature range	–20 to 200°C (–4 to 392°F) 10 to 550°C (50 to 842°F)
Object temperature range and accuracy (for ambient temp. 15 to 35°C (50 to 95°F) and object temp. above 0°C (32°F))	- Range –20 to 200°C (–4 to 392°F): 0 to 100°C (32 to 212°F): ±2°C (±3.6°F) 100 to 200°C (212 to 392°F): ±2% - Range 10 to 550°C (50 to 1022°F): 10 to 100°C (50 to 212°F): ±2°C (±7.2°F) 100 to 550°C (212 to 1022°F): ±2%
Measurement analysis	
Spotmeter	Center spot, box with min./max.
Isotherm	Above, Below
Delta T	Yes, NFPA 70B compliant
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Measurements correction	Emissivity, matt/semi-matt/semi-gloss + custom value, reflected apparent temperature, atmospheric compensation
Set-up	
Color palettes	Iron, White hot, Black hot, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
File format	Standard JPEG, 14-bit measurement data included
Storage media	Internal memory and onboard FLIR Ignite cloud connectivity (with Wi-Fi or)
Digital camera	
Digital camera, resolution	8 MP
Digital camera, FOV	50.5° × 64.5°
Autofocus	Yes
Data communication interfaces	
Interfaces	- USB-C: Data transfer to and from PC and Mac device - Display port over USB-C
Wi-Fi	IEEE 802.11 a/ac/b/g/n (2.4 and 5 GHz) Infrastructure (STA)
Bluetooth	Bluetooth 5.0
Cellular	LTE Cat-4
Cyber security	EN18031-1 EN18031-2
Radio	
Operating frequency	WLAN 2.4 GHz: 2412–2462 MHz WLAN 5 GHz: 5150–5250 MHz Note The frequency band 5150–5250 MHz is for indoor use only, see national regulations (e.g. Japan and Canada)
Cellular bands	LTE bands: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/ B20/B25/B26/ B28 + B38/B39/B40/B41
Power system	
Battery type	Rechargeable Lithium-ion battery
Battery voltage	3,65 V
Battery operating time	4 hours at +25°C (+77°F) ambient temperature and typical use

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Charging system	Battery is charged inside the camera or in specific charger.
Charging time	2 hours in charger. 4 hours to 90% capacity in camera.
Power management	Automatic shut-down
AC operation	Recommended at least 27W USB-PD power adapter with USB-C connector, such as FLIR T912548
Battery documents	TBD
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
EMC	• EN 301 489-1 RED • EN 301 489-17 • EN 301 489-19 • EN 55032 Class B (Emission) • EN 55035 (Immunity) • EN 61000-6-2 Immunity according to Industrial • FCC 47 CFR part 15 B, class B (Emission) • ICES-003
Radio spectrum	ETSI EN 300 328 ETSI EN 301 893 ETSI EN 301 908-1 FCC 47 CFR part 15 RSS-247 FCC - Title 47 CFR Part 22 FCC - Title 47 CFR Part 24 FCC - Title 47 CFR Part 27
Cellular	GCF PTCRB
Hazardous substances	• WEEE 2012/19/EU • RoHS 2011/65/EU
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Camera: • IEC/EN 62368-1 Power supply: • IEC/EN 62368-1 • UL/J/(AS/NZS) 62368-1 • GB 4943
Declaration of conformity	TBD
Physical data	
Camera weight, incl. battery	0,8 kg (1.76 lb.)
Camera size (L × W × H)	225 x 136 x 73 (8.9 x 5.4 x 2.9 in.)
Color	Black
Shipping information	
Packaging, type	Cardboard box



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List of contents	Infrared camera with battery Extra battery Battery charger USB-C cable Printed documentation Hard transport case Wrist strap
Packaging, weight	3.1 kg (6.83 lbs)
Packaging, size	385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.)
EAN-13	7332558035634
UPC-12	845188033569
Country of origin	Sweden

Supplies & accessories:

- T301030ACC; Battery Charger lxx/Exx
- T912633ACC; Adapter USB Type-C to HDMI with Charging
- T912548ACC; Power Supply, USB-C PD 45W plug
- T912533ACC; Pouch
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T301002ACC; Battery