



Metadados

Nº da peça	89401-0202	90501-0201
Nome do Produto	FLIR C5 (incluindo Wi-Fi)	FLIR C3-X (incluindo Wi-Fi)
Revisão	84740	84742
Última modificação	02-05-2022	02-05-2022

Dados de imagem e ópticos

Resolução IR	160 × 120 pixels	128 × 96 pixels
Sensibilidade térmica/NETD	< 70 mK	< 70 mK
Campo de visão (FOV)	54° × 42°	54° × 42°
Distância mínima de foco	- Térmico: 0,1 m (0,32 pés) - MSX: 0,3 m (0,98 pés)	- Térmico: 0,1 m (0,32 pés) - MSX: 0,3 m (0,98 pés)
Resolução espacial (IFOV)	6,3 mrad/pixel	7,9 mrad/pixel
Número F	1.1	1.1
Frequência de imagem	8,7Hz	8,7Hz
Foco	Foco livre	Foco livre
Zoom digital	Sim, zoom pinch, 1–4× contínuo	Não

Dados do detector

Tipo de detector	Matriz de plano focal, microbolômetro não resfriado	Matriz de plano focal, microbolômetro não resfriado
Faixa espectral	8–14 µm	8–14 µm
Passo do detector	12 µm	12 µm

Apresentação da imagem

Resolução de vídeo	640 × 480 pixels	640 × 480 pixels
Tamanho da tela	3,5 pol.	3,5 pol.
Proporção da tela	4:3	4:3
Orientação automática	Sim	Sim
Tela sensível ao toque	Sim, capacitivo	Sim, capacitivo
Tecnologia de exibição	IPS	IPS
Ajuste de imagem	- Nível e amplitude automáticos - Nível manual e amplitude - Nível e amplitude de 1 toque	- Nível e amplitude automáticos - Nível manual e amplitude
Modos de imagem	- Imagem infravermelha - Imagem visual - MSX - Picture in picture (área IR na imagem visual)	- Imagem infravermelha - Imagem visual - MSX - Picture in picture (área IR na imagem visual)
Galeria	Sim, inclusive miniaturas e estrutura de pastas personalizadas	Sim, inclusive miniaturas e estrutura de pastas personalizadas

Medição

Faixa de temperatura do objeto	–20 a 400°C (–4 a 752°F)	–20 a 300°C (–4 a 572°F)
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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%	0 to 100°C (32 to 212°F): ±3°C (±5.5°F) 100 to 300°C (212 to 572°F): ±3%
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Measurement analysis

Measurement functions	- Spot - Box with max./min.	- Spot - Box with max./min.
Measurements correction	- Emissivity; matt/semi-matt/semi-glossy + custom value - Reflected apparent temperature - Atmospheric compensation	- Emissivity; matt/semi-matt/semi-glossy + custom value - Reflected apparent temperature - Atmospheric compensation
Color palettes	- Iron - Gray - Rainbow - Arctic - Lava - Rainbow HC	- Iron - Gray - Rainbow - Rainbow HC

Set-up

Set-up commands	- Local adaptation of units, language, date and time formats - Screen brightness (high, medium, low)	- 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	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	- Automatic over Wi-Fi - USB via computer	- Automatic over Wi-Fi - USB via computer
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Storage of images

Storage media	Built-in	Built-in
Image storage capacity	> 5000 sets of images	> 5000 sets of images
Image file format	Standard JPEG, 14-bit measurement data included	Standard JPEG, 14-bit measurement data included

Image annotations

Text	Soft keyboard on touchscreen, auto-prompt for note when image is saved	Soft keyboard on touchscreen
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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.	No
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Digital camera

Resolution	5 MP	5 MP
Focus	Fixed	Fixed
Field of view	71.5 ° × 56° (84° diagonal)	71.5 ° × 56° (84° diagonal)
Video lamp	Yes	Yes

Data communication interfaces

Wi-Fi	802.11 a/ac/b/g/n (2.4 and 5 GHz) (5 GHz only for indoor use in Japan and Canada)	802.11 a/ac/b/g/n (2.4 and 5 GHz) (5 GHz only for indoor use in Japan and Canada)
USB	USB 2.0, Type-C connector	USB 2.0, Type-C connector
Bluetooth	PAN	PAN

Radio

Wi-Fi	- Standard: 802.11 a/b/g/n (HT20) - Frequency range: 2401–2473 MHz 5150–5250 MHz - Max. output power: 15 dBm	- Standard: 802.11 a/b/g/n (HT20) - Frequency range: 2401–2473 MHz 5150–5250 MHz - Max. output power: 15 dBm
Bluetooth + EDR	- Frequency range: 2400–2484 MHz - Max. output power: 10 dBm	- Frequency range: 2400–2484 MHz - Max. output power: 10 dBm

Power system

Battery type	Rechargeable Li ion battery (built-in)	Rechargeable Li ion battery (built-in)
Battery voltage	3.7 V	3.7 V
Battery capacity	1800 mAh	1800 mAh
Battery operating time	4 hours	4 hours
Battery charge life	>500 cycles	>500 cycles
Charging system	USB-C (1 A)	USB-C (1 A)
Charging time	2 hours	2 hours
Charging temperature	35°C (95°F)	35°C (95°F)
External power operation	5 V, USB-C	5 V, USB-C
Power management	Adjustable stand-by and automatic shut-down	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	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)	–10 to 50°C (14 to 122°F)
Storage temperature range	–40 to 70°C (–40 to 158°F)	–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	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	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	- EN 301 487-1 - EN 301 489-17 - FCC 47 CFR Part 15 Class B
Magnetic fields	EN 61000-4-8 level 5	EN 61000-4-8 level 5
Radio spectrum	- ETSI EN 300 328 - EN 301 489 - FCC Title 47 CFR Part 15 - RSS-247 Issue 2	- ETSI EN 300 328 - EN 301 489 - FCC Title 47 CFR Part 15 - RSS-247 Issue 2
Battery regulations	- UL 1642 - EN 62133 ed 2	- UL 1642 - EN 62133 ed 2
Battery charging efficiency	- BC Title 20 10 CFR Section 430.23 (aa)	- BC Title 20 10 CFR Section 430.23 (aa)
Encapsulation	Camera housing and lens: IP 54 (IEC 60529)	Camera housing and lens: IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)	2 g (IEC 60068-2-6)
Drop	Designed for 2 m (6.56 ft)	Designed for 2 m (6.56 ft)
Safety	EN 62368-1	EN 62368-1
Environmental safety	- REACH Regulation EC 1907/2006 - RoHS2 Directive 2011/65/EC - WEEE Directive 2012/19/EC - Proposition 65	- 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	See: https://support.flir.com/resources/DoC

Physical data

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Weight (including battery)	0.19 kg (0.42 lb)	0.19 kg (0.42 lb)
Size (L × W × H)	138 × 84 × 24 mm (5.4 × 3.3 × 0.94 in)	138 × 84 × 24 mm (5.4 × 3.3 × 0.94 in)
Battery weight	40 g (1.4 oz)	40 g (1.4 oz)
Tripod mounting	UNC ¼"-20	UNC ¼"-20
Housing material	• PC and ABS, partially covered with TPE • Aluminum	• PC and ABS, partially covered with TPE • Aluminum
Color	Black	Black

Warranty and service

Warranty	http://www.flir.com/warranty/	http://www.flir.com/warranty/
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Shipping information

Packaging, type	Cardboard box	Cardboard box
Packaging, contents	• C5 • Printed documentation • FLIR Thermal Studio Starter • Wrist strap lanyard • USB cable • Pouch	• C3-X • Printed documentation • FLIR Thermal Studio Starter • Wrist strap lanyard • USB cable • Pouch
Packaging, weight	0.52 kg (1.14 lb)	0.52 kg (1.14 lb)
Packaging, size	160 × 118 × 93 mm (6.3 × 4.6 × 3.7 in)	160 × 118 × 93 mm (6.3 × 4.6 × 3.7 in)
EAN-13	4743254004467	4743254004764
UPC-12	845188021832	845188022945
Country of origin	Estonia	Estonia