

P/N: 89401-0202

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Document identity

Publ. No.: 89401-0202 Commit: 66090 Language: Modified: 2020-05-12 Formatted: 2020-05-12

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
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
Image modes	 Infrared image Visual image MSX Picture in picture (IR area on visual image)
Gallery	Yes, incl. thumbnails and custom folder structure



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Measurement		
Object temperature range	–20 to 400°C (–4 to 752°F)	
Accuracy at ambient temp. 15 to 35°C (59 to 95°	0 to 100°C (32 to 212°F): ±3°C (±5.5°F)	
F) and object temp. above 0°C (32°F)	100 to 400°C (212 to 752°F): ±3%	
Measurement analysis		
Measurement functions	SpotBox 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	Automatic over WiFi 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	
Digital camera		
Resolution	5 MP	
Focus	Fixed	
Field of view	71.5 ° \times 56° (84° diagonal)	
Video lamp	Yes	
Data communication interfaces		
Wi-Fi	802.11 a/ac/b/g/n (2.4 and 5 GHz)	
USB	USB 2.0, Type-C connector	
Bluetooth	PAN	



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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
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	 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
Battery charging efficiency	BC Title 2010 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
Physical data	
Weight (including battery)	0.19 kg (0.42 lb)
Size $(L \times W \times H)$	$138 \times 84 \times 24$ mm (5.4 \times 3.3 \times 0.94 in)
Battery weight	40 g (1.4 oz)
Tripod mounting	UNC 1⁄4″-20
Housing material	PC and ABS, partially covered with TPE Aluminum
Color	Black



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Warranty and service	
Warranty	http://www.flir.com/warranty/
Shipping information	
Packaging, type	Cardboard box
Packaging, contents	 C5 Printed documentation Wrist strap lanyard USB cable Pouch
Packaging, weight	0.52 kg (1.14 lb)
Packaging, size	$160 \times 118 \times 93$ mm (6.3 $\times 4.6 \times 3.7$ in)
EAN-13	4743254004467
UPC-12	845188021832
Country of origin	Estonia



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May 5, 2020 Täby, Sweden

AQ320383

CE Declaration of Conformity – EU Declaration of Conformity

Product: FLIR C5-series

Name and address of the manufacturer: FLIR Systems AB PO Box 7376 SE-187 15 Täby, Sweden

This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration: FLIR C5 -series (Product Model Name FLIR-C8940). The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Directives:

Directive	2014/53/EU	Radio E	quipment Directive (RED)
Directive:	2011/65/EU	RoHS ar	nd 2015/830/EU (Phtalates)
Standards:			
EMC:	EN 55032:2015 v.2016-	02	Electromagnetic compatibility multimedia eq
	EN 61000-4-8 v.2010-11	L	Power frequency magnetic field immunity test
	ETSI EN 301489-1 v2.2.3	3	ERM – EMC for radio equipment
	ETSI EN 301489-17 v3.2	.0	ERM – EMC Wideband data
Radio:	ETSI EN 300 328 v2.2.2		Harmonized EN covering essential
			requirements of the R&TTE Directive
	ETSI EN 301 893 v.2.1.1		5GHz WLAN
SAR:	EN 50566:2017		Compliance with 30MHz to 6GHz
	EN 62209-2		Handheld and body-mounted devices
	IEEE 1528-2013		Wireless communication devices
Safety:	IEC/EN 62368-1:2014 (2	nd Ed) ar	nd Cor 1:2015 EN 62368-1:2014/AC:2015
	/A11:2017		Audio/video, information tech equipment
Restricted substances:	EN 50581:2012		Technical documentation

FLIR Systems AB

Quality Assurance

ter Polon

Lea Dabiri Quality Manager

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Supplier's Test Summary in accordance with UN Manual of Tests and Criteria

in accordance with UN Manual of Tests and Criteria Part III, subsection 38.3 ISO/IEC 17050-1 Format

Test summary no.	2019-08-30-01	
Information about the manufacturer		
	Name Address	PT. VARTA Microbattery (Indonesia) Batamindo Industrial Park Jalan Gaharu Lot 23, Jalan Angsana Lot 307-310 Mukakuning Batam, Kepulauan Riau 29433, Indonesia
Object of the declaration		
	Type of battery	Rechargeable lithium ion battery
	Article	1/LPP 683566 BE PCM WC - SOC 30%
	Material no.	725988 [#]
	VKB no.	56432 201 017
	IEC Designation	1ICP7/35/66
	Voltage	3.7V
	Watt-hour rating	7.0Wh
	Mass (approx.)	40g

The object of the declaration described above is in conformity with the requirements of the following document:

Documents No.	Title	Edition / Date of issue
ST/SG/AC.10/11/Rev.6	Recommendations on the Transport of Dangerous Goods, UN Manual of Tests and Criteria, Part III, subsection 38.3	2015

Test Report

Document ref no.	JT70
Document date	2017

JT70208 2017-04-03

List of Tests conducted and results

Test Item	Test Result	Test Item	Test Result
T1. Altitude Simulation	Pass	T5. External Short-circuit	Pass
T2. Thermal Test	Pass	T6. Impact	Pass *
T3. Vibration	Pass	T7. Overcharge	Pass
T4. Shock	Pass	T8. Forced Discharge	Pass *

* Reference to report of LPP 683566 BE cell

Material No. 725988 is SOC 30% of Material No. 723947, equivalent to Material No. 718880 of test samples

Test laboratory

The tests were performed by the following test laboratory

Name	PT. VARTA Microbattery (Indonesia)
Address	Application Test Lab Batamindo Industrial Park Jalan Angsana Lot 310 Mukakuning Batam Kepulauan Riau 29433 Indonesia
Phone	+62 770611099
E-mail	info@varta-microbattery.com
Website	www.varta-microbattery.com

 VARTA Microbattery Pte Ltd
 Phone : (65) 6260 5801

 300 Tampines Avenue 5
 Fax : (65) 6260 5812

 #05-01 Tampines Junction
 info@varta-microbattery.com

 Singapore 529653
 www.varta-microbattery.com

 RCB (Certificate of Incorporation) No. 197201703K

A Company of VARTA AG, VARTA-Platz 1, 73479 Ellwangen, Germany

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Supplier's Test Summary in accordance with UN Manual of Tests and Criteria

Part III, subsection 38.3 ISO/IEC 17050-1 Format

Additional information

In original VARTA packaging the products comply with the following special provisions of international transport regulations:

- IATA DGR: Packing Instruction 965 Section IB (max. 30 % state of charge) (Transportations of cells or batteries packed with equipment or contained in equipment have to follow Packing Instructions 966 or 967 Section II.) ٠
- - ADR/RID/ADN/IMDG Code: Special Provision 188
- DOT / 49 CFR: §173.185 (c)

The products have been manufactured under a quality management programme according to IATA DGR clause 3.9.2.6.1 (e), ADR clause 2.2.9.1.7 (e) and IMDG code clause 2.9.4.5.

Singapore, 30 August 2019 (place and date of issue)

(company stamp)

(signature)

(Low Chee Leong) Manager Technical Support

VARTA Microbattery Pte Ltd 300 Tampines Avenue 5 #05-01 Tampines Junction Singapore 529653

Phone : (65) 6260 5801 Fax : (65) 6260 5812 info@varta-microbattery.com www.varta-microbattery.com RCB (Certificate of Incorporation) No. 197201703K

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