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Laboratory for Product Safety

Accredited testing laboratory



Deutsche
Akkreditierungsstelle
D-PL-12076-01-01

TEST REPORT IEC/EN 62368-1 Audio/video, information and communication technology equipment Part 1: Safety – Requirements	
Report Reference No.	1-9964/20-01-04
Test Item	FLIR-T7250 (T198767)
Test result	The test item passed
Remark: This test report is electronically signed and valid without handwriting signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.	
Tested by (printed name and signature)	Jürgen Sanetra (Testing Manager)  cn=Juergen Sanetra, o=CTC advanced GmbH, ou=SAT-161125, email=juergen.sanetra@ctc-advanced.com, c=DE 2020.10.28 14:03:58 +01'00'
Approved by (printed name and signature)	Amine Hattab (Lab Manager)  cn=Hattab, Mohamed Amine, o=CTC advanced GmbH, ou=HAT-191002, email=Mohamed.Hattab@ctc-advanced.com, c=DE 2020.10.28 14:22:53 +01'00'
Date of issue	2020-10-28
Testing Laboratory	CTC advanced GmbH
Address	Untertürkheimerstr. 6-10 DE-66117 Saarbrücken
Applicant's name	FLIR Systems AB
Address	Antennvägen 6 SE-187 66 Täby
Manufacturer's name	Same as applicant
Address	
Test specification	
Standard	IEC 62368-1: 2014 (2.Edition) and Cor. 1: 2015 EN 62368-1: 2014/AC: 2015/A11: 2017/AC:2017

Test procedure	CE, AA WC 34
Non-standard test method	N/A
Test Report Form No.	SAF-CE62368-1V8
Test Report Form(s) Originator.....	CTC advanced GmbH
Master TRF	Dated 2018
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<p>Accredited Testing Laboratory</p> <p>The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2005) by the Deutsche Akkreditierungsstelle GmbH (DAkkS). The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate with the registration number: D-PL-12076-01-01.</p>	
<p>Accreditation Certificate</p> <p>Note: The current certificate including annex is published on our website or may be received from CTC advanced on request.</p>	
Test item description.....	Infrared image camera
Trade Mark	
Model/Type reference	FLIR-T7250 (T198767)
Ratings	USB: 5 VDC BAT: 3.7 VDC
<p>Additional information:</p> <p>The EUT was tested under the following conditions:</p> <ul style="list-style-type: none"> - Temperature in the range of 15 – 35°C unless otherwise specified - A relevant humidity in the range of 25-75% r.H. - An air pressure in range of 86kPa to 106kPa 	

Summary of testing:

The sample(s) tested complies with the requirements of IEC 62368-1: 2014 (2. Ed.)/Cor.1:2015 and EN 62368-1: 2014/AC: 2015/A11: 2017/AC: 2017.

Summary of compliance with National Differences:

The following group and/or national deviations were considered: EU, EFTA

Country abbreviations according to ISO 3166-1:

AR	Argentina	AT	Austria	AU	Australia
BE	Belgium	BG	Bulgaria	BR	Brazil
CA	Canada	CH	Switzerland	CN	China
CY	Cyprus	CZ	The Czech Republic	DE	Germany
DK	Denmark	EE	Estonia	ES	Spain
FI	Finland	FR	France	GB	United Kingdom
GR	Greece	HU	Hungary	HR	Croatia
IE	Ireland	IL	Israel	IT	Italy
IS	Iceland	IN	India	JP	Japan
KR	Rep. of Korea	LI	Liechtenstein	LT	Lithuania
LV	Latvia	LU	Luxembourg	MT	Malta
MY	Malaysia	NL	Netherlands	NO	Norway
NZ	New Zealand	PL	Poland	PT	Portugal
RS	Serbia	RU	Russian federation	SE	Sweden
SG	Singapore	SK	Slovakia	SI	Slovenia
TR	Turkey	UA	Ukraine	AE	United Arab Emirates
US	United States of America	ZA	South Africa		

Other country abbreviations:

EU	European Union	(AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, LT, LV, LU, MT, IE, IT, NL, PL, PT, RS, SE, SK, SI)
EFTA	European Free Trade Association	(NO, CH, IS, LI)

The following abbreviations were used in this test report:

AC: Alternating Current	DC: Direct Current	PE: Protective earth
PRI: Primary circuit	SEC: Secondary circuit	PS: Power Supply
GND: Ground	PCB: Printed circuit board	BAT: Battery
EUT: Equipment under Test	OC: Open Circuit	SC: Short Circuit
PIS: Potential Ignition Source	PIS-A: PIS arcing	PIS-R: PIS resistive
ID: According table 14		

Copy of marking plates:

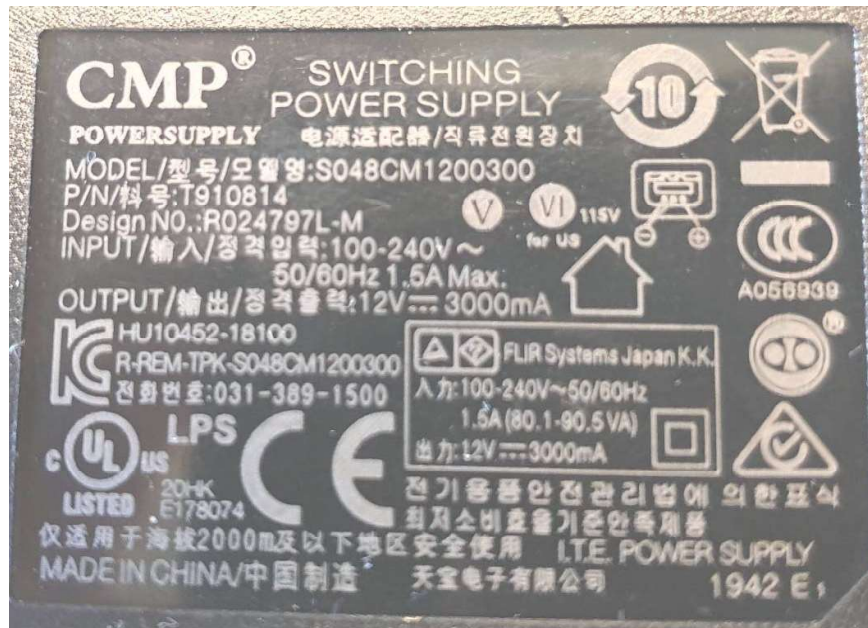
FLIR Systems AB
Antennvägen 6
P.O. Box 7376
SE-187 15 Täby
Sweden



Camera

Copy of marking plates:

Battery



Power Supply/Charger

Test item particulars			
Applicable persons groups	Instructed / Skilled / Ordinary / Children likely to be present		
Accessibility	User access		
Type of enclosure.....	Decorative		
Enclosure material	Plastic HB		
PCB material	V-0		
Pollution degree PD	2		
IP protection class	X0		
Safeguard enclosure	TS1	MS1	RS1
Safeguards interfaces	Power in	ES1	PS2
	USB Micro B	ES1	PS3
	Memory card	ES1	PS1
	HDMI	ES1	PS1
	High-speed interface	ES1	PS1
	Battery	ES1	PS2
	Charger out	ES1	PS2
Insulation between	ES1 – ES1: Functional		
Type of temperature controls	None		
Orientation during use.....	Vertical / horizontal		
Orientation during transport	Vertical / horizontal		
Equipment mobility.....	Camera: Hand-held		
Connection to the mains/supply.....	Charger: Type A		
Protective device building or equipment installation .:	16A		
Operating condition.....	Continuous		
Over voltage category OVC	II		
Supply tolerance	± 10%		
Tested for IT power systems	No		
IT testing, phase-phase voltage	No		
Construction class	Charger: II		
	Camera: III		
Equipment class	Charger: II		
	Camera: III		
Rated atmospheric humidity	10 to 85% (Non Condensing)		
Rated temperature range.....	-10°C to + 50°C		
Mass of equipment	2011g		
Altitude during operation	≤ 2000 m		
Possible test case verdicts:			
- test case does not apply to the test object.....	N/A		
- test object does meet the requirement.....	P (Pass)		
- test object does not meet the requirement.....	F (Fail)		

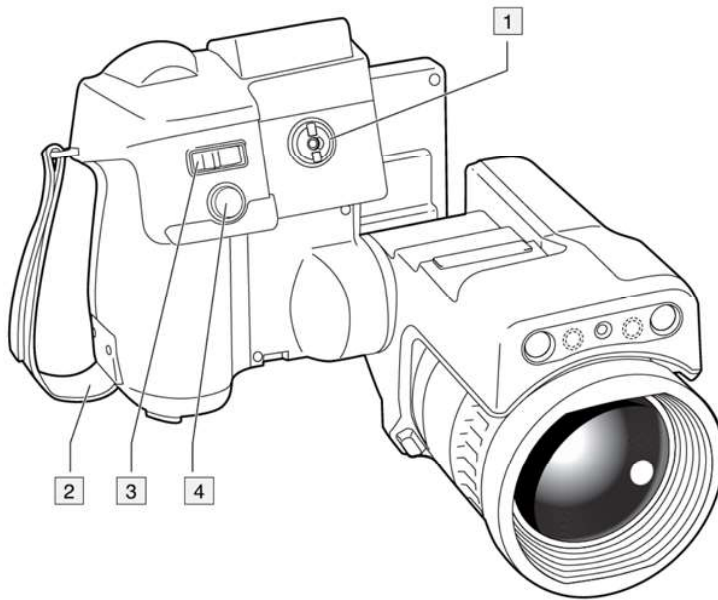
Testing:

Date of receipt of test item: 2020-06-22

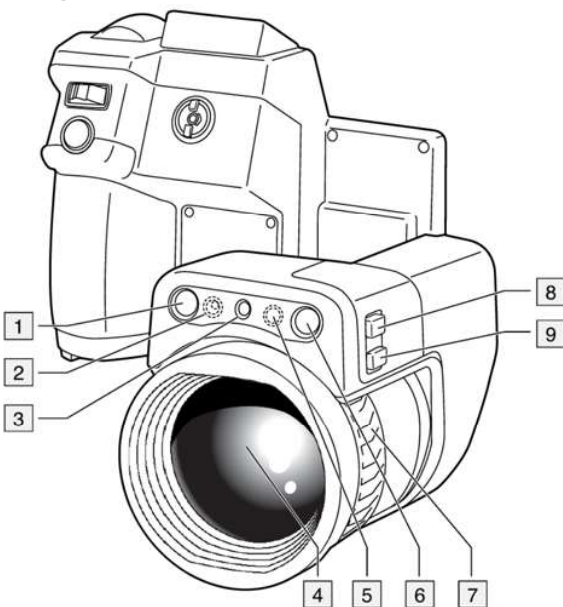
Date(s) of performance of tests: 2020-06-22– 2020-10-28

General product information:

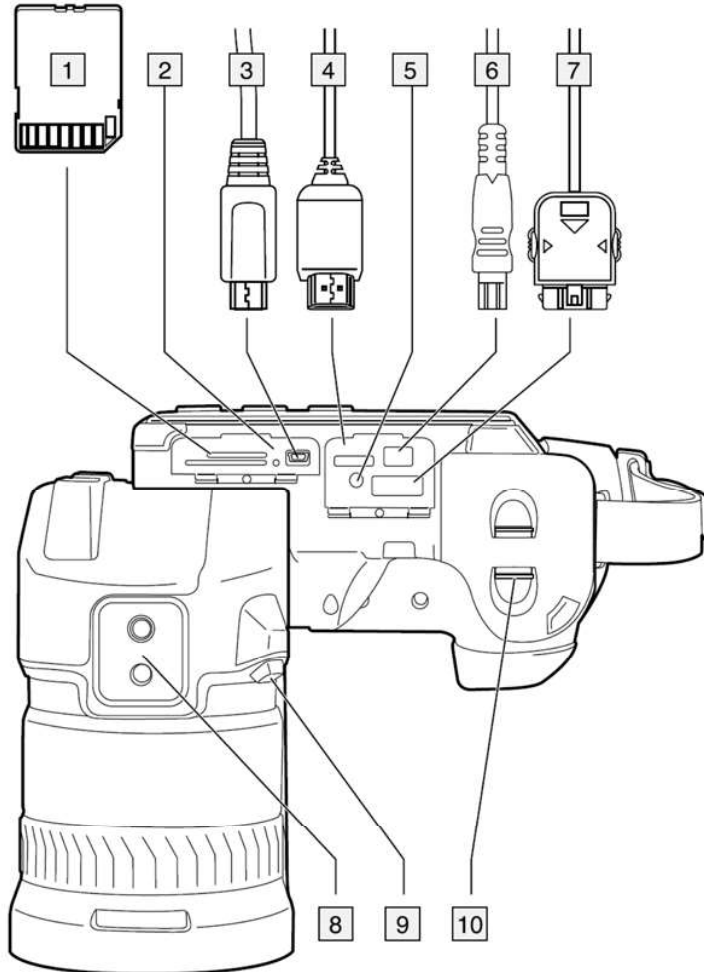
The EUT is an infrared thermal imaging camera. It is powered by an internal Li-ion battery that is charged via a special connector.

Controls elements:


1. Knob to change the dioptic correction for the viewfinder
2. Hand strap
3. Digital zoom button
4. Save button (push fully down)

Other parts:


1. Digital camera
2. Camera lamp
3. Laser pointer
4. Infrared lens
5. Camera lamp
6. Digital camera
7. Focusing ring
8. Programmable button
9. Button to operate the laser pointer

General product information:**Interfaces and indicators:**

- 1 Memory card
- 2 LED indicator showing that the memory card is busy
- 3 USB Micro B cable (to connect the camera to a computer)
- 4 HDMI cable (for digital video output)
- 5 Battery condition LED indicator
- 6 Power supply cable (to power the camera and charge the battery)
- 7 High-speed interface cable
- 8 Tripod mount
- 9 Button to release the lens
- 10 Latch to release the battery

The following Attachments are integral part of this test report:

- Annex 1: Photo documentation