FLIR K2

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Website

http://www.flir.com

Customer support

http://support.flir.com

Disclaimer

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General description
The FLIR K2 is a robust and reliable infrared camera designed to perform under extremely severe conditions. The FLIR K2 has an intuitive interface with a design that makes it easy to control even with a gloved hand.
Benefits:
• Robust and reliable: The FLIR K2 is designed to meet tough operating conditions. It can withstand a drop from 2 m (6.5 ft.), is water resistant to IP67, and is fully operational up to 55°C (135°F), and operational up to +85°C (+185°F) for 15 minutes, +150°C (+302°F) for 10 minutes, and +260°C (+500°F) for 3 minutes. • Innovative: The FLIR K2 utilizes our patented technology MSX, where a thermal sensor is combined with a visual camera sensor to give detailed image information in many user situations. • Easy-to-use: Easily used in a gloved professional hand. An intuitive and simple user interface allows you to focus on the job. The FLIR K2 can be controlled by just one large button on top of the unit.
Typical applications:
• Heat detection. • Search and rescue. • Final extinction. • Back-up camera. • Scanning camera. • Fire attack.

Imaging and optical data	
IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	< 100 mK @ +30°C (+86°F)
Field of view (FOV)	47° × 35°
Depth of field	0.1 m (0.33 ft.), infinity

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Imaging and optical data	
Focal length	1.9 mm (0.075 in.)
Spatial resolution (IFOV)	6.22 mrad
F-number	1.1
Image frequency	9 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array, uncooled microbolometer
Spectral range	7.5–13 µm
Pitch	12 µm

Visual camera	
Built-in digital camera	640 × 480 pixels
Digital camera, FOV	73° × 61°, adapts to the IR lens
Sensitivity	Minimum 10 lux

Image presentation	
Display	3 in. LCD, 320 × 240 pixels, backlit
Auto range	Auto, non-selectable

Image presentation modes	
Image modes	• Basic fire-fighting mode (default) • Black-and-white fire-fighting mode • Fire mode • Search-and-rescue mode • Heat detection mode • Cold detection mode • Building analysis mode **NOTE** The image mode can only be changed using FLIR Tools.
Multi Spectral Dynamic Imaging (MSX)	Yes

Measurement	
Object temperature range	• –20°C to +150°C (–4°F to +302°F) • 0°C to +500°C (+32°F to +932°F)
Accuracy	±4°C (±7.2°F) or ±4% for ambient temperatures of 10–35°C (50–95°F)

Measurement analysis	
Spotmeter	1
Automatic hot detection	Heat detection mode (the hottest 20% of the of scene is colorized)
Isotherm	Yes

USB	
USB	USB Micro-B

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Compatibility	
Compatible with FLIR software	FLIR Tools

Data communication interfaces	
Interfaces	Update from PC devices

Power system	
Battery type	Li ion
Battery voltage	3.6 V
Battery capacity	2.6 Ah at 20–25°C (68–77°F)
Battery operating time	Approximately 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera or in a dedicated charger
Charging time	2.5 h to 90% capacity, charging status indicated by LEDs
Charging temperature	0–45°C (32–113°F)
Power management	Automatic shutdown and sleep mode
Start-up time from sleep mode	10 seconds
Start-up time	30 seconds

Environmental data	
Operating temperature range	• –10°C to +55°C (+14°F to +131°F): infinity • +85°C (+185°F): 15 minutes • +150°C (+302°F): 10 minutes • +260°C (+500°F): 3 minutes
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30, 24 hours, 95% relative humidity, 25–40°C (77–104°F), 2 cycles
Relative humidity	95% relative humidity, 25–40°C (77–104°F), non-condensing
EMC	• EN 61000-6-2:2005 (immunity) • EN 61000-6-3:2011 (emission) • FCC 47 CFR Part 15 B (emission)
Magnetic fields	EN 61 000-4-8, test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 67 (IEC 60529)
Corrosion	ASTM B117, salt spray, 5% saline solution in 48 hours and +35°C
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety (power supply)	CE/EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.7 kg (1.54 lb.)
Battery weight	0.119 kg (0.26 lb.)

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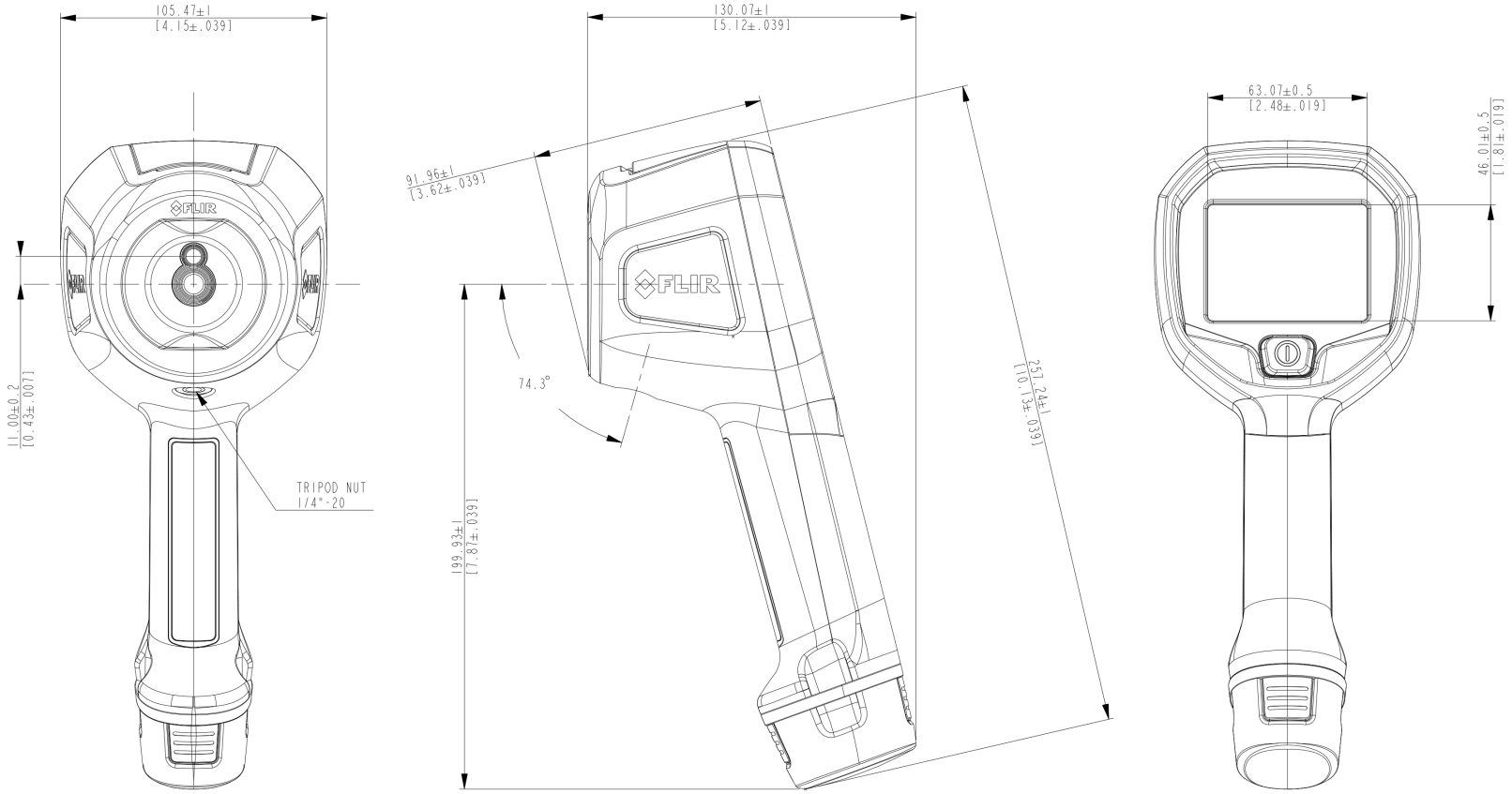
Physical data	
Camera size (L × W × H)	250 mm × 105 mm × 90 mm (9.8 in. × 4.1 in. × 3.5 in.)
Tripod mounting	UNC ¼″-20
Material	• PPSU • Silicon rubber • Aluminium, cast • Flame-resistant magnesium alloy

Shipping information	
List of contents	• Infrared camera • Battery (×2) • Battery charger • Lanyard strap • Power supply • Printed documentation • USB cable
Packaging, weight	• 1-pack: 2.06 kg (4.5 lb.) • 5-pack: 11.2 kg (24.7 lb.)
Packaging, size	• 1-pack: 323 × 325 × 110 mm (12.7 × 12.8 × 4.3 in.) • 5-pack: 578 × 336 × 351 mm (22.93 × 13.10 × 13.68 in.)
EAN-13	4743254002050
UPC-12	845188011345
Country of origin	China

Supplies & accessories:

- T198532; Car charger
- T198533; USB cable Std A <-> Micro B
- T127722ACC; Retractable lanyard
- T199127; Li-Ion Battery pack 3.6 V 2.6 Ah
- T199128; Battery charger, incl. power supply with multi plugs
- T199423ACC; Battery Li-ion 3.6 V, 2.6 Ah, 9.4 Wh
- T199414; In-truck charger
- T199130; Lanyard strap
- T199357; Hard transport case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11.00±0.2
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TRIPOD NUT
1/4"-20
130.07±1
[5.12±.039]
91.96±1
[3.62±.039]
74.3°
199.93±1
[7.87±.039]
257.24±1
[10.13±.039]
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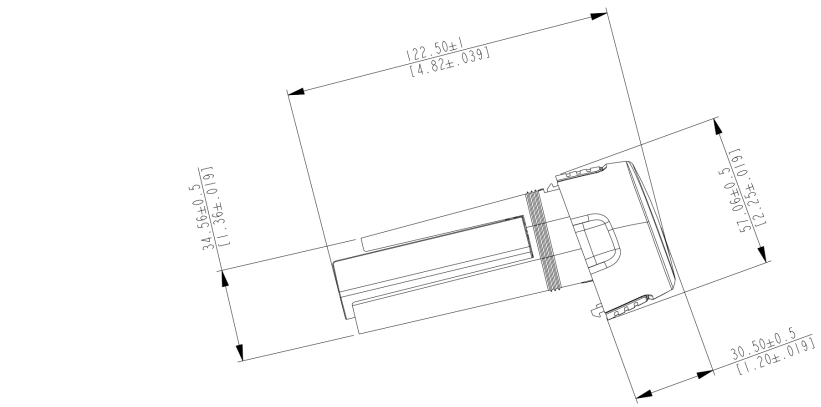
[2.48±.019]
46.01±0.5
[1.81±.019]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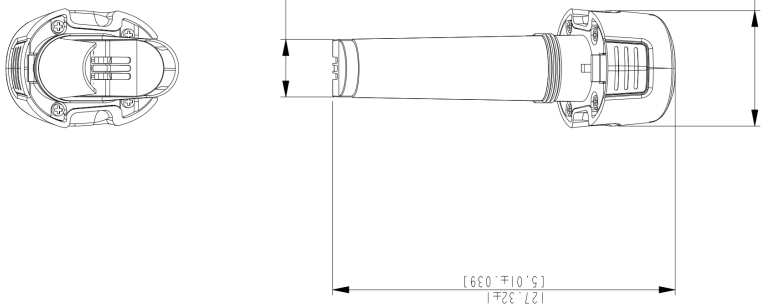
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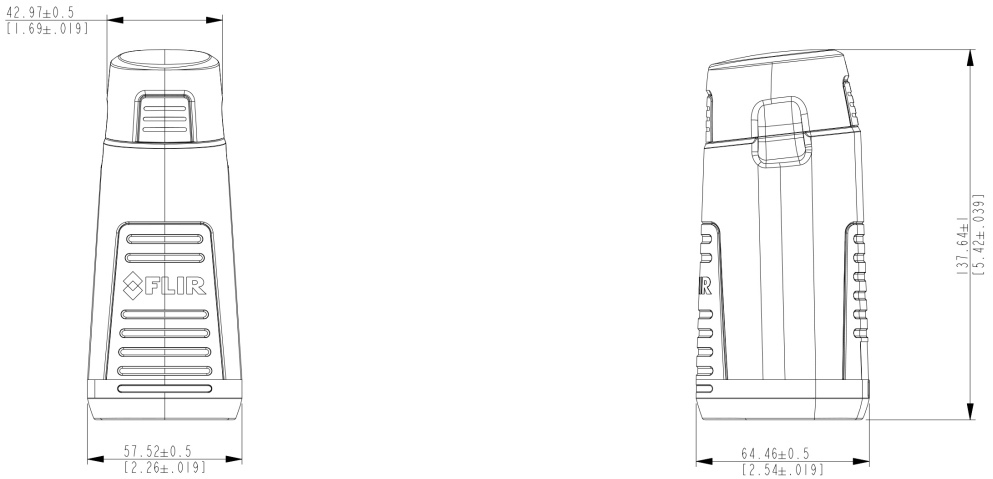
127.32±1
[5.01±.039]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FLIR
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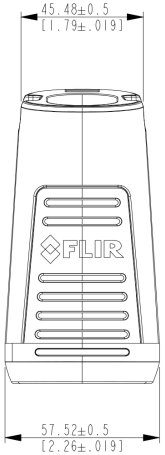
[2.54±.019]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FLIR
57.52±0.5
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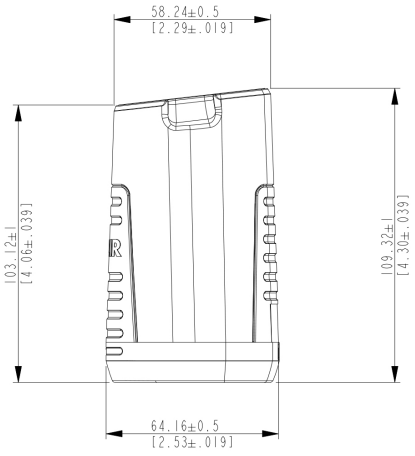
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