



FLIR K85

P/N: 18702-0201

Copyright

© 2025, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

Document identity

Publ. No.: 18702-0201

Release: AC

Commit: 107658

Language:

Modified: 2025-09-17

Formatted: 2025-09-17

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 description	
The FLIR K85 is a robust and reliable infrared camera designed to perform under extremely severe conditions. The FLIR K85 has an intuitive interface with a design that makes it easy to control even with a gloved hand. The crisp and clear image helps you to navigate through smoke and to make quick and accurate decisions.	
Benefits:	
• Robust and reliable: The FLIR K85 is designed to meet tough operating conditions. It can withstand a drop from 2 m (6.5 ft.) onto a concrete floor, is water resistant to IP67, and is fully operational up to 60°C (140°F), or 260°C (500°F) for 5 min. • Clear and crisp thermal images: The maintenance-free uncooled microbolometer sensor produces clear and detail-rich images of 640 × 480 pixels which have been further improved with FSX, a digital image processing enhancement technique. Thermal images are presented on a large, bright 4" display, helping you to navigate and to make quick and accurate decisions. • Easy-to-use—also in a gloved firefighter's hand: An intuitive and simple user interface allows you to focus on the job. The FLIR K series can be controlled by just three large buttons on top of the unit. Ideal for a gloved firefighter's hand. • Recording	
Imaging and optical data	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 60 mK @ +30°C (+86°F)
Field of view (FOV)	51° × 39°
Depth of field	1 m to infinity
Focal length	8.2 mm (0.32 in.)
Spatial resolution (IFOV)	1.5 mrad
F-number	1.4
Image frequency	30 Hz
Focus	Fixed
Zoom	2× digital zoom
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Pitch	12 μm



FLIR K85

P/N: 18702-0201

© 2025, FLIR Systems, Inc.

#18702-0201; r. AC/107658;

Image presentation	
Display	4 in. LCD, 640× 480 pixels, backlit
Contrast optimization	FSX
Image presentation modes	
Image modes	• IR image ◦ Basic mode ◦ Fire mode ◦ White hot ◦ Search mode ◦ Detection mode • Thumbnail gallery
Measurement	
Object temperature range	• -20°C to +650°C (+32°F to +1202°F)
Accuracy	±4°C (±7.2°F) or ±6% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	1
Automatic Hot and Cold detection	Hot and Cold detection mode with colorization and hot and cold spot markers.
Automatic Heat Indicating Colorization	Yes
Set-up	
Set-up commands	Local adaptation of units, date and time formats
Languages	English
Storage of images	
Image storage	Standard JPEG
Storage media	Internal flash memory
Image storage capacity	200 files in total Note The total number of files is co-dependent on the number of saved video clips.
Image storage mode	IR only
File formats	Standard JPEG
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to internal flash memory
Storage capacity	4h of MPEG movies. When memory is full, storage space is automatically freed up in chunks of the oldest 1h movies.
Video streaming	
Non-radiometric IR video streaming	MPEG4 compressed video stream over WiFi to FLIR mobile app.
USB	
USB	USB-C

P/N: 18702-0201

© 2025, FLIR Systems, Inc.

#18702-0201; r. AC/107658;

Data communication interfaces	
Interfaces	Update via OTA (Wifi using the companion App) Legacy support for updates from PC device and data transfer to and from PC
Wi-Fi	IEEE 802.11 b/g/n (2.4 GHz)
Bluetooth	Bluetooth v. 5.0 EDR + BLE * PAN
Radio	
Operating frequency	- Bluetooth: 2402–2480 MHz - WLAN 2.4 GHz: 2412–2462 MHz
Power system	
Battery type	Li Ion
Battery voltage	3.7 V
Battery capacity	5.8 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use.
Charging system	- Battery is charged inside the camera 2-bay charger - Optional In-truck charger
Charging time	<3 h to capacity enough for 3h operation.
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode
Start-up time from sleep mode	< 5s.
Start-up time	< 30s. incl GUI
Battery documents	For documents like MSDS and UN38.3 test reports/summaries, see: https://support.flir.com/resources/msds
Environmental data	
Operating temperature range	–20°C to +60°C (–4°F to +140°F) +150°C (+302°F): 15 min. +260°C (+500°F): 5 min.
Storage temperature range	–40°C to +85°C
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) / 2 cycles
EMC	- EN 301 489-1 RED - EN 301 489-17 - EN 55032 Class B (Emission) - EN 55035 (Immunity) - EN 61000-6-2 Immunity according to Industrial - EN 60945 Maritime equipment - FCC 47 CFR part 15 B, class B (Emission) - ICES-003
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Radio Spectrum	- ETSI EN 300 328 - ETSI EN 301 893 - FCC 47 CFR part 15 - RSS-247

P/N: 18702-0201

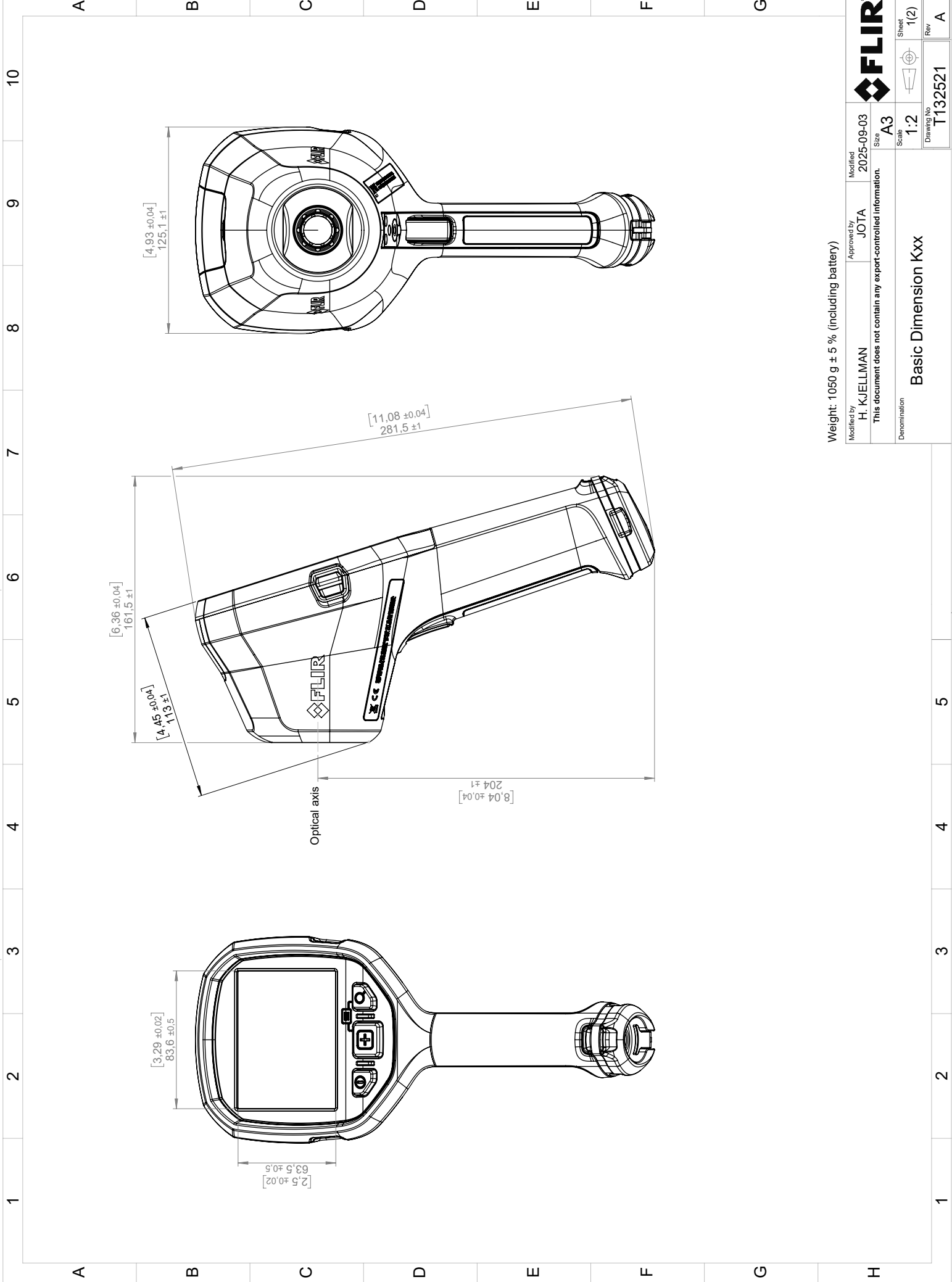
© 2025, FLIR Systems, Inc.

#18702-0201; r. AC/107658;

Environmental data	
Encapsulation	IP 67 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.) on concrete floor (IEC 60068-2-31)
Safety (power supply)	IEC 62368
Physical data	
Camera weight, incl. battery	1.1 ±0.05 kg (2.4 ±0.1 lb.)
Battery weight	168 g
Camera size (L × W × H)	122 × 125 × 280 mm (4.7 × 4.9 × 11 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	• Silicon (housing and buttons) • Plastic (PPSU) • Aluminium (battery locking) • Stainless steel (fasteners, pins) • Brass, lead free (tripod thread and battery) • Glass (display) • Vinyl (label)
Shipping information	
List of contents	• USB-C cable • Neck strap • Lanyard • Retractable lanyard • Strap lanyard • Strap carbine • Battery charger incl. power supply with multi plugs • Li-Ion battery pack 3.6 V 16 Wh
Packaging, weight	2930 g (6.5 lb.)
Packaging, size	370 x 350 x 137 mm (14.7 x 13.8 x 5.4 in.)
EAN-13	4743254007741
UPC-12	845188033699
Country of origin	Estonia

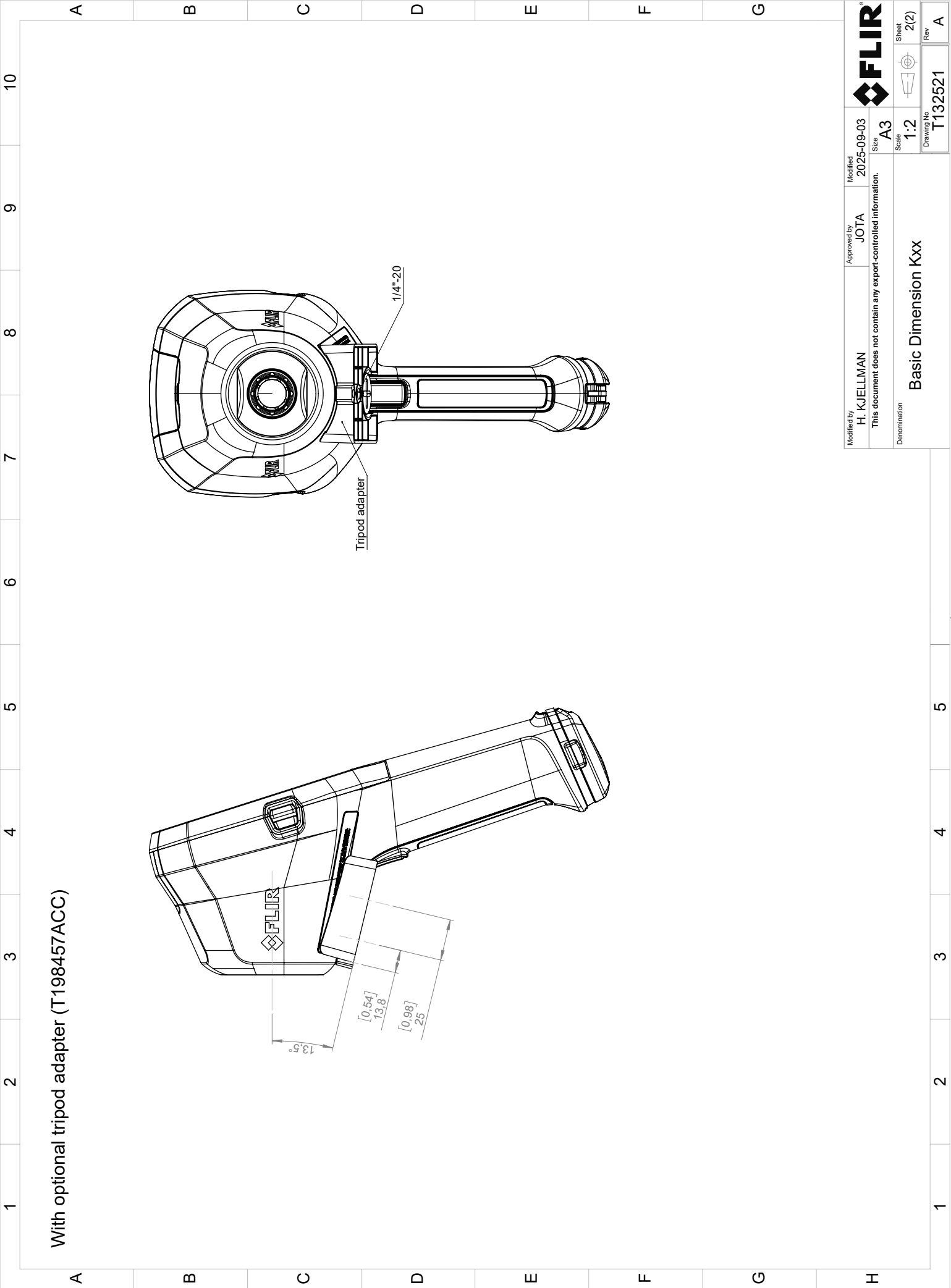
Supplies & accessories:

- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T300791ACC; Battery charger, incl. power supply with multi plugs
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T127724ACC; Neck strap
- T198416ACC; Lanyard strap
- T198457ACC; Tripod Adapter, Kxx
- T198441ACC; Transport case Kxx
- T198322ACC; In-truck charger
- T129915ACC; Carabiner strap
- T300466ACC; Battery locking mechanism replacement kit
- T300815ACC; Battery Li-ion 3.6 V, 4.4 Ah, 16 Wh
- T132571ACC; Retractable lanyard

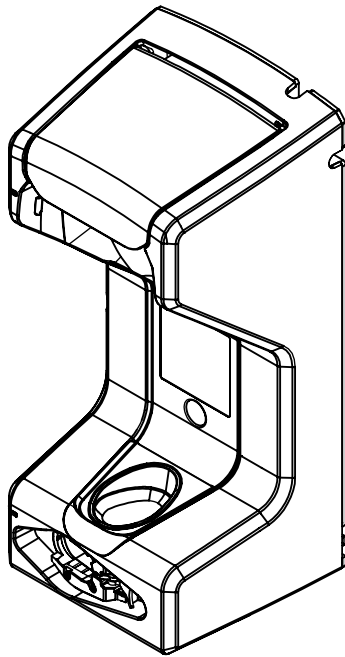
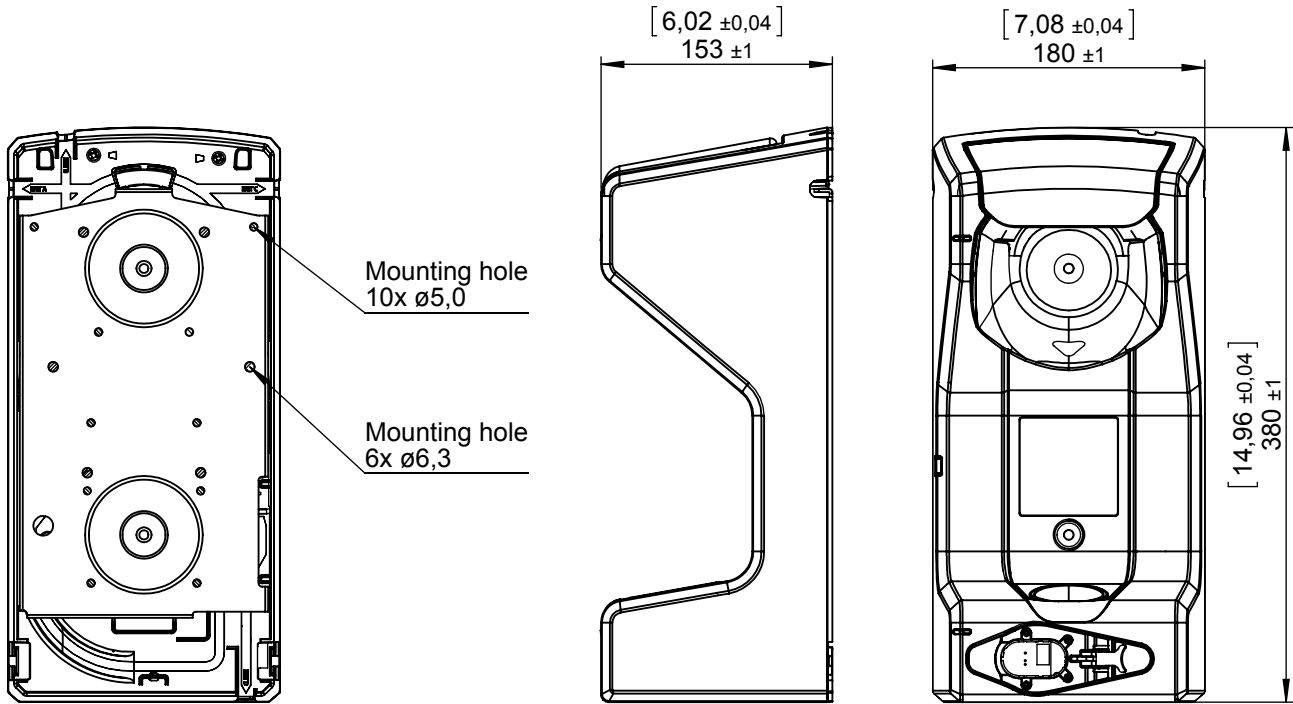


Weight: 1050 g ± 5 % (including battery)

Modified by H. KJELLMAN		Approved by JOTA	Modified 2025-09-03	FLIR	
This document does not contain any export-controlled information.				Size A3	Sheet 1(2)
Denomination Basic Dimension Kxx				Scale 1:2	Drawing No. T132521
				Rev A	



Modified by H. KJELLMAN	Approved by JOTA	Modified 2025-09-03		
This document does not contain any export-controlled information.			Size A3	Sheet 2(2)
Denomination Basic Dimension Kxx			Scale 1:2	Drawing No T132521
				Rev A



Konstr/Drawn P. MARCUS	Datum/Date 2013-04-08	Kontr/Check MABR	Material				
Ändrad av/Modified by P. MARCUS	Ändrad/Modified 2013-04-08	Ytjämnhet/Roughness Ra μm	Ytbehandling/Surface treatment				
Där ej annat anges/Unless otherwise stated Gen tol ISO 2768-mK Utdrag ur/Excerpt from ISO 2768-m 0,5-6 ±0,1 Hålkålsradier (6)-30 ±0,2 Fillet radii (30)-120 ±0,3 (120)-400 ±0,5 Kanter brutna (400)-1000 ±0,8 Edges broken	Benämning/Denomination Basic dimensions In-truck charger			Skala/Scale 1:5		Blad/Sheet 1(1)	
				Art.No.		Size A4	
				Ritn nr/Drawing No T127865		Rev A	