

P/N: 72202-0303

Copyright

© 2022, 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.: 72202-0303 Commit: 87195 Language:

Modified: 2022-09-21 Formatted: 2022-10-11

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 K65 is a robust and reliable infrared camera designed to perform under extremely severe conditions. The FLIR K65 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:

- Compliance with NFPA 1801-2021.
- Robust and reliable: The FLIR K65 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), and operational up to 150°C (302°F) for 15 minutes, and 260°C (500°F) for 5
 minutes.
- Clear and crisp thermal images: The maintenance-free uncooled microbolometer sensor produces clear and detail-rich images of 320 x 240 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	320 × 240 pixels	
Thermal sensitivity/NETD	< 30 mK @ +30°C (+86°F)	
Field of view (FOV)	51° × 38°	
Depth of field	0.84 m to infinity (33 in. to infinity)	
Focal length	9 mm (0.35 in.)	



P/N: 72202-0303 © 2022, FLIR Systems, Inc. #72202-0303; r. 87195;

Imaging and optical data			
Spatial resolution (IFOV)	2.8 mrad		
F-number	1.25		
Image frequency	60 Hz		
Focus Zoom	Fixed		
200111	2× digital zoom		
Detector data			
Detector type	Focal plane array (FPA), uncooled microbolometer (VOx)		
Spectral range	8–14 μm		
Pitch	25 μm		
Image presentation			
Display	4 in. LCD, 320 × 240 pixels, backlit		
Auto range	Yes, selectable on/off using FLIR K-series camera configurator		
Contrast optimization	Digital image enhancement using FSX		
Image presentation modes			
	TI Basic NFPA mode Black and white firefighting mode TI Basic PLUS NFPA mode Search and rescue mode Heat detection mode Thumbnail gallery		
Measurement			
Object temperature range	-20°C to +150°C (-4°F to +302°F) 0°C to +650°C (+32°F to +1202°F)		
Accuracy	±4°C (±7.2°F) or ±4% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)		
Measurement analysis			
Spotmeter	1		
Automatic hot detection	Heat detection mode (the hottest 20% of the of scene is colorized)		
Isotherm	Yes, according to NFPA		
Set-up			
Set-up commands	Local adaptation of units, date and time formats		
Languages	English		
Storage of images			
Image storage	Standard JPEG Internal flash memory		
Storage media			
1	·		



P/N: 72202-0303 © 2022, FLIR Systems, Inc. #72202-0303; r. 87195;

Storage of images			
Image storage capacity	200 files in total NOTE The 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	200 files in total, with a maximum duration of 5 minutes each. NOTE The total number of files is co-dependent on the number of saved images.		
Video streaming			
Non-radiometric IR video streaming	Uncompressed colorized video using USB		
USB			
USB	USB Mini-B		
Data communication interfaces			
Interfaces			
	Update from PC devicesData transfer to and from PC		
Power system	· ·		
Power system Battery type	· ·		
·	Data transfer to and from PC		
Battery type	Data transfer to and from PC Li lon		
Battery type Battery voltage	Data transfer to and from PC Li lon 3.6 V		
Battery type Battery voltage Battery capacity	Li lon 3.6 V 4.4 Ah, at +20°C to +25°C (+68°F to +77°F) Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use NOTE This operating time is independent of camera		
Battery type Battery voltage Battery capacity Battery operating time	Data transfer to and from PC Li Ion 3.6 V 4.4 Ah, at +20°C to +25°C (+68°F to +77°F) Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use NOTE This operating time is independent of camera mode. Battery is charged inside the camera 2-bay charger		
Battery type Battery voltage Battery capacity Battery operating time Charging system	Data transfer to and from PC Li Ion 3.6 V 4.4 Ah, at +20°C to +25°C (+68°F to +77°F) Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use NOTE This operating time is independent of camera mode. Battery is charged inside the camera 2-bay charger Optional In-truck charger 2 h to 85% capacity, charging status indicated by		
Battery type Battery voltage Battery capacity Battery operating time Charging system Charging time	Data transfer to and from PC Li Ion 3.6 V 4.4 Ah, at +20°C to +25°C (+68°F to +77°F) Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use NOTE This operating time is independent of camera mode. Battery is charged inside the camera 2-bay charger Optional In-truck charger 2 h to 85% capacity, charging status indicated by LEDs		



P/N: 72202-0303 © 2022, FLIR Systems, Inc. #72202-0303; r. 87195;

Power system	
Start-up time	< 17 s. (IR image, no 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 +70°C (-40°F 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
Directives	Certified according to NFPA 1801-2021 specification: Vibration Impact acceleration resistance Corrosion Viewing surface abrasion Heat resistance Heat and flame Product label durability
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)
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)	CE/EN/UL/CSA/PSE 60950-1
Declaration of conformity	See: https://support.flir.com/resources/DoC
Certifications	
Compliance	NFPA1801-2021
	Ex-certified according to ANSI/UL 121201-2017 and meets Class I Division 2 Groups C and D, Class II Division 2 Groups F and G, Temperature Code T4/T135°C
Physical data	
Camera weight, incl. battery	1.1 ±0.05 kg (2.4 ±0.1 lb.)
Battery weight	0.152 kg (0.3 lb.)
Camera size (L × W × H)	120 × 125 × 280 mm (4.7 × 4.9 × 11 in.)

\$FLIR

FLIR K65

P/N: 72202-0303

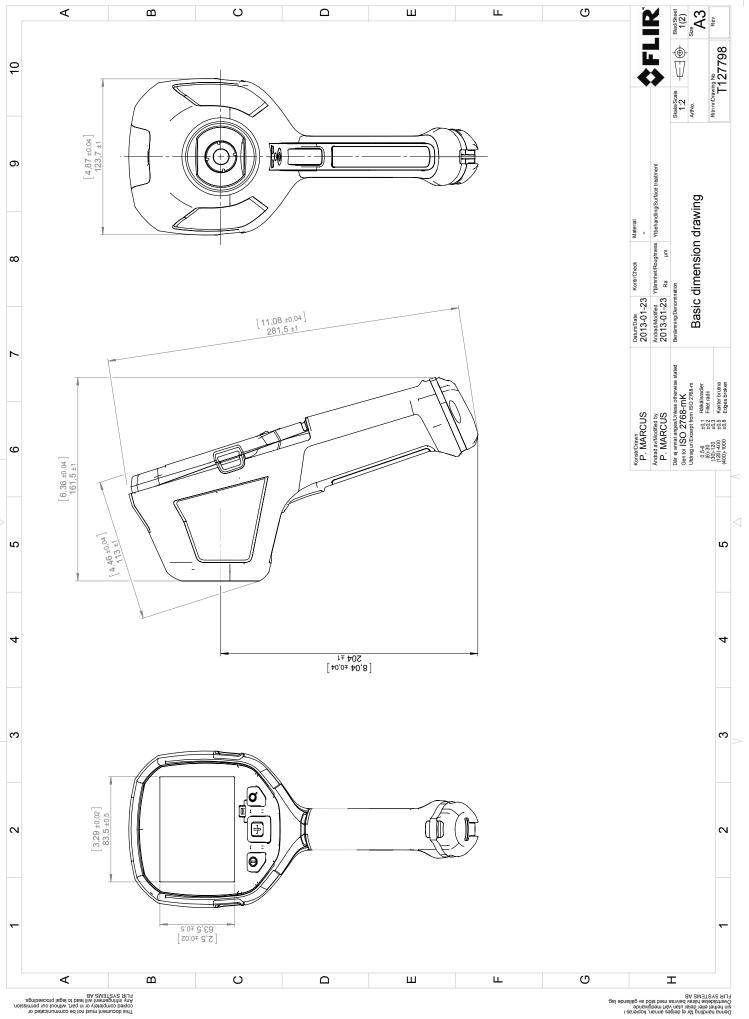
© 2022, FLIR Systems, Inc. #72202-0303; r. 87195;

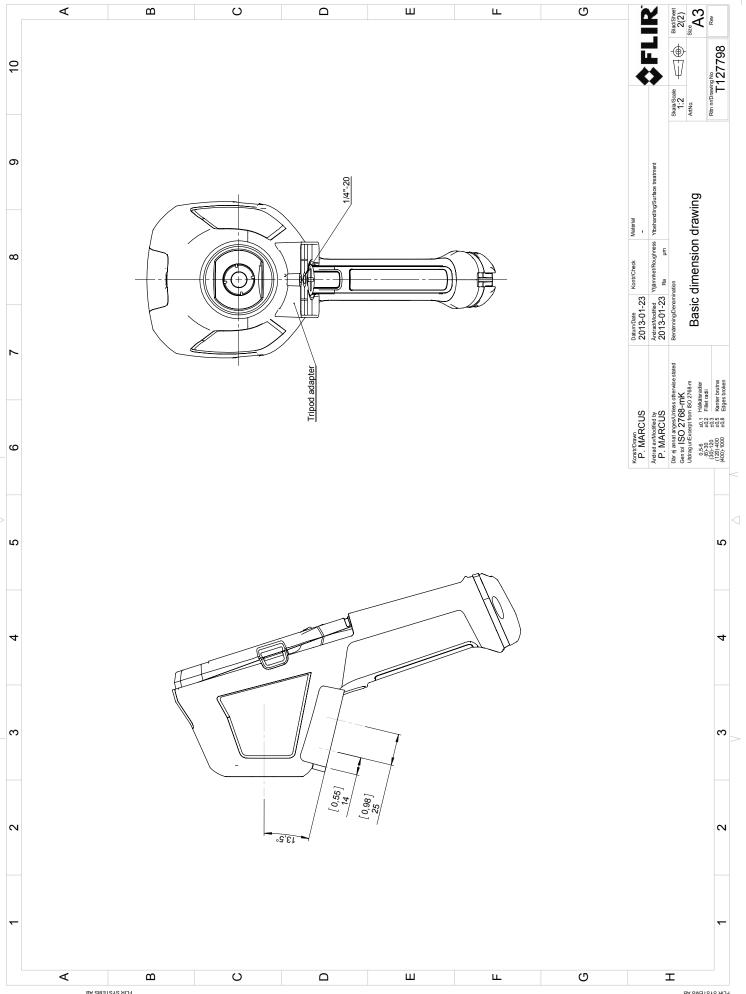
Physical data	
Tripod mounting	UNC 1/4"-20 (adapter needed)
Material	PPSUSilicon rubberAluminium, castFlame-resistant magnesium alloy
Shipping information	
List of contents	

Shipping information			
List of contents	Infrared camera Battery (2 ea.) Battery charger Carabiner strap Hard transport case Power supply Printed documentation Retractable lanyard, 16 N (58 oz) Torx screwdriver (T20) USB cable		
Packaging, weight	5.7 kg (12.6 lb.)		
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)		
EAN-13	4743254001992		
UPC-12	845188010881		
Country of origin	Estonia		

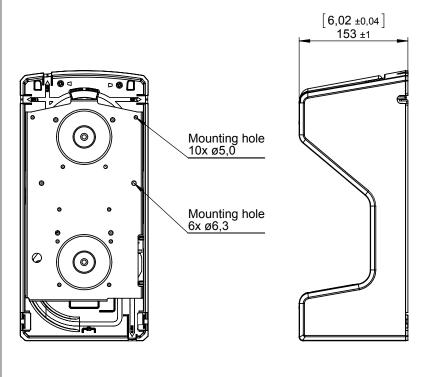
Supplies & accessories:

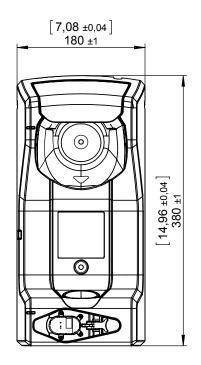
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T127724ACC; Neck strap
- T198416ACC; Lanyard strap
- T198457ACC; Tripod Adapter, Kxx
- T198441ACC; Transport case Kxx
- T911309ACC; Screwdriver TX20
- T198322ACC; In-truck charger
- T199398; FLIR K65 accessory kit
- T199368ACC; Battery Li-ion 3.6 V, 4.4 Ah, 16 Wh
- T129915ACC; Carabiner strap
- T130980ACC; Retractable lanyard, 16 N (58 oz)

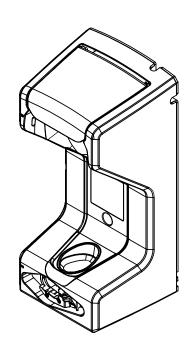




 \triangleright







	_						
	Konstr/Drawn	Datum/Date	Kontr/Check	Material			
	P. MARCUS	2013-04-08	MABR			≎FL	ID
	Ändrad av/Modified by	Ändrad/Modified	Ytjämnhet/Roughness	Ytbehandling/Surface treatment		₩ F L	
	P. MARCUS	2013-04-08	Ra µm			•	
	Där ej annat anges/Unless otherwise stated Gen tol ISO 2768-mK	Benämning/Denon	nination		Skala/Scale 1:5		Blad/Sheet 1(1)
Utdrag ur/Excerpt from ISO 2768-m 0,5-6 ±0,1 Hålkälsradier (6)-30 ±0.2 Fillet radii			imensions		Art.No.		A4
5	(30)-120 ±0,3 (120)-400 ±0,5 Kanter brutna	In-truck charger		Ritn nr/Drawing No T127865		Rev •	
5	(400)-1000 ±0,8 Edges broken				I	127000	A

 \triangle