

P/N: 62201-0201

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General description

The FLIR K55 is a robust and reliable infrared camera designed to perform under extremely severe conditions. The FLIR K55 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 K55 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 +85°C (+185°F).
- **Clear and crisp thermal images:** The maintenance-free uncooled microbolometer sensor produces clear and detail-rich images of 320 × 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) / Minimum focus distance	51° × 38° / NA fixed focus. See DOF
Depth of field	0.84 m to inf. (33 in. to inf.)
Spatial resolution (IFOV)	2.8 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed
Zoom	2× digital zoom

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Detector data	
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 7.5–13 µm
Image presentation	
Display	4 in. LCD, 320 × 240 pixels, backlit
Auto range	Yes, mode dependent. Configurable through FLIR Tools SW
Contrast optimization	Digital Image enhancement through FSX
Image presentation modes	
Image modes	- IR image - TI Basic NFPA Fire fighting Mode - Black and White Fire fighting Mode - Fire Mode - Search And Rescue Mode - Heat Detection Mode - Thumbnail gallery
Infrared image	IR image, presentation mode dependent. Configurable through FLIR Tools SW
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/cold detection	Heat detection mode (The hottest 2% of the of scene is colorised)
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
Storage media	Internal Flash memory
Image storage capacity	200
Image storage mode	IR only
File formats	Standard JPEG
Image annotations	
Report generation	Separate PC software
Video recording in camera	
Non-radiometric IR-video recording	MPEG-4 to internal Flash memory
Video streaming	
Non-radiometric IR-video streaming	Uncompressed colorized video using USB
Data communication interfaces	
Interfaces	USB-mini

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USB	
USB	USB Mini-B: Data transfer to and from PC / Uncompressed colorized video
Power system	
Battery	Li Ion
Battery capacity	4.4 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	2-bay charger or optional In-truck charger
Charging time	2 h to 85% capacity, charging status indicated by LED's
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	< 4 sec.
Start-up time	< 17 sec. (IR-image, no GUI)
Environmental data	
Operating temperature range	-20°C to +85°C (-4°F to +185°F) +150°C (+302°F): 15 min. +260°C (+500°F): 5 min.
Storage temperature range	-40°C to +85°C (-40°F to +185°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	Designed to meet NFPA 1801 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)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.) on concrete floor (IEC 60068-2-31)
Safety	CE/EN/UL/CSA/PSE 60950-1
Physical data	
Camera weight, incl. battery	1.1 kg +/- 0.05 kg (2.4 +/- 0.1 lb.)
Battery weight	0.152 kg (0.3 lb.)
Camera size (L x W x H)	120 x 125 x 280 mm (4.7 x 4.9 x 11 in.)



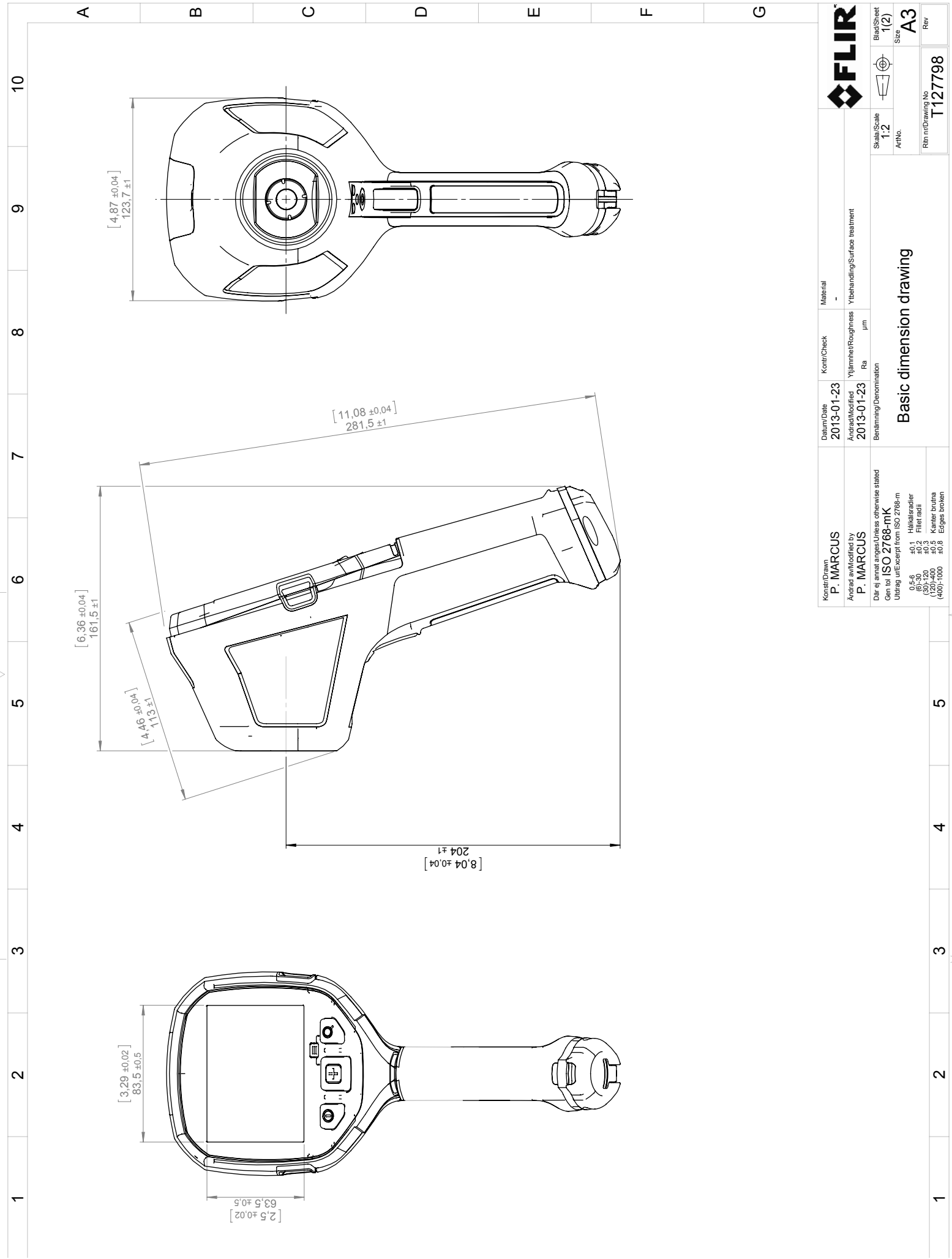
FLIR K55

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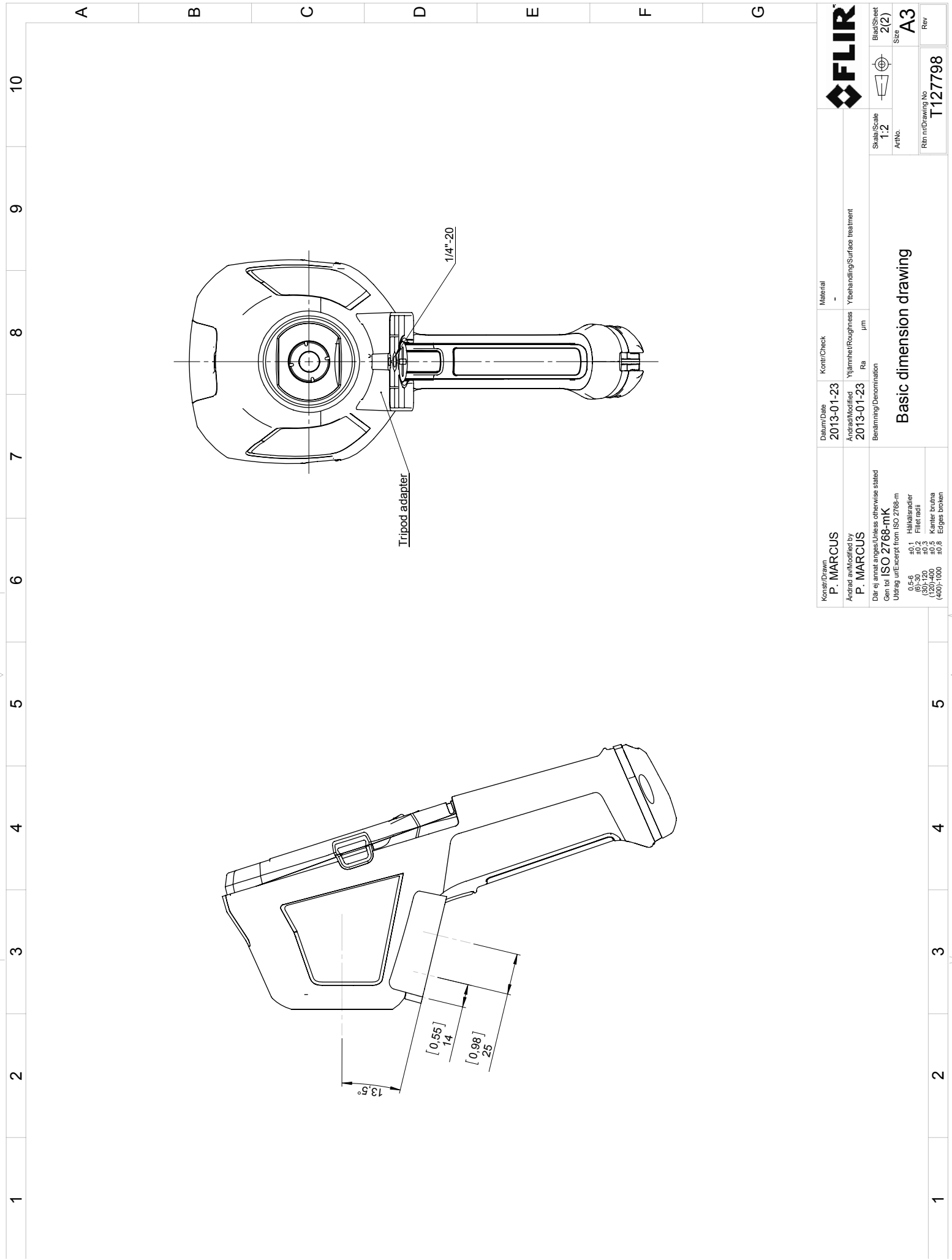
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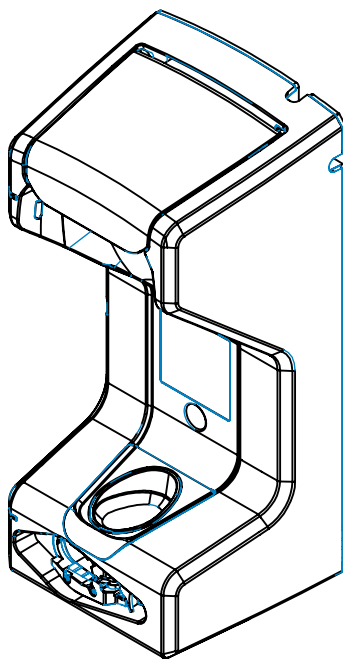
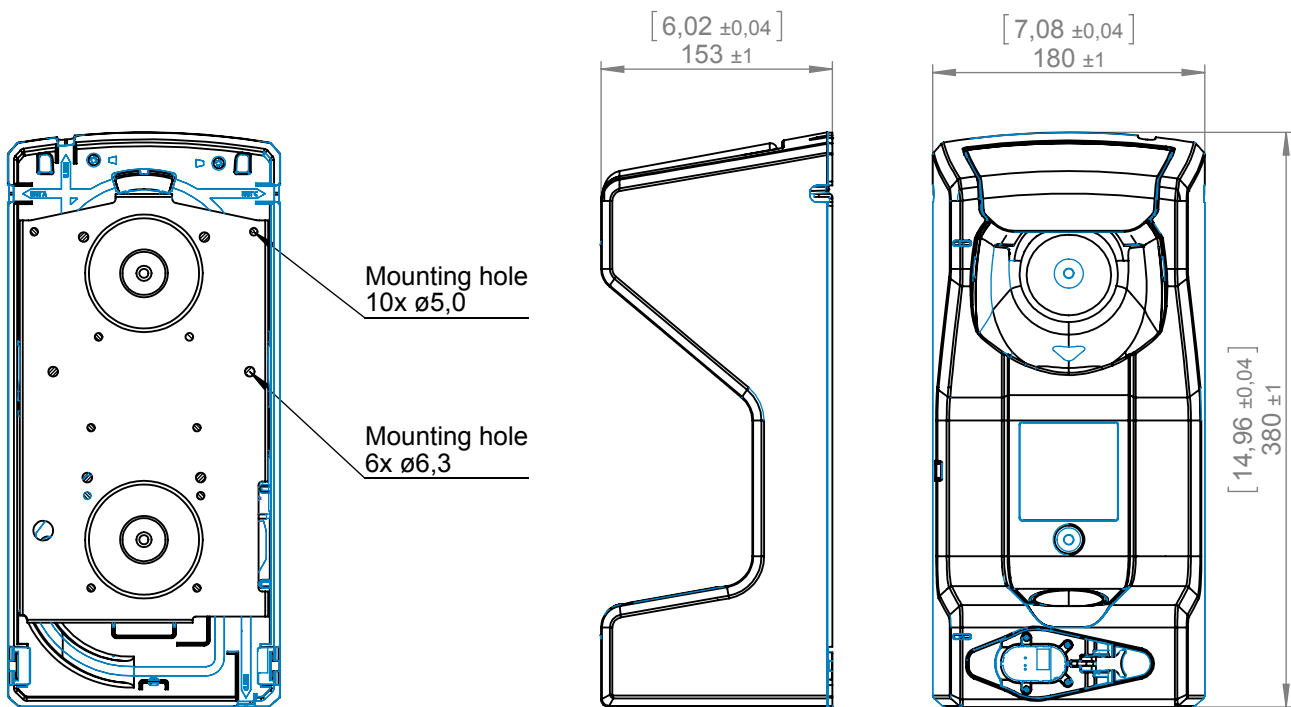
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Physical data	
Tripod mounting	UNC 1/4"-20 (adapter needed)
Material	• PPSU • Silicon rubber • Aluminium, casted • Thixomold magnesium
Shipping information	
List of contents	• Infrared camera • Battery (2 ea.) • Battery charger • Hard transport case • Lanyard strap • Neck strap • Power supply • Printed documentation • Retractable lanyard • Tripod adapter • USB cable • User documentation CD-ROM
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	
UPC-12	
Country of origin	Estonia



Konstr/Drawn P. MARCUS		Datum/Date 2013-01-23	Kontr/Check -	Material -
Andrad av/Modified by P. MARCUS		Andrad/Modified 2013-01-23	Ytlämhet/Roughness Ra	Ytbehandling/Surface treatment µm
Där ej annat anges/Unless otherwise stated Gen tol ISO 2768-mK Utmåg ut/except from ISO 2768-m		Benämning/Denomination Basic dimension drawing		
0,5-6 (6)-30 (30)-100 (120)-400 (400)-1000		Hållsläpplier ±0,1 Hållsläpplier ±0,2 Fillet radii ±0,5 Kantlar brutna ±0,8 Edges broken		
FLIR		Sheet/Scale 1:2		
		Blad/Sheet 1(2)		
		Size A3		
		Rev T-127798		





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	Benämning/Denomination		Skala/Scale 1:5		Blad/Sheet 1(1)
.561.8187					
www.itm.com					
in-truck charger					
(30)-120 ±0,3 (120)-400 ±0,5 (400)-1000 ±0,8 Kanter brutna Edges broken			Kltn nr/Drawing No T127865 Rev A		
information@itm.com					