FLIR X8400sc

Thermal Focus®
Sterk in Temperatuur
De Vijf Kuilen 2
2380 Ravels - Belgium
BE 0647.621.884
info@thermalfocus.eu
Tel. +32 14 42.96.50
WWW.THERMALFOCUS.EU

P/N: 66901-0101

Copyright

© 2017, 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.: 66901-0101
Release:
Commit: 42915
Language: en-US
Modified: 2017-05-30
Formatted: 2017-06-15

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.

Detector/image	
Detector type	Digital focal plane array (FPA)
Sensor material	InSb
IR resolution	1280 × 1024
Detector pitch	15 µm
f-number	f/2
Optical interface	Bayonet
Lens identification	Automatic
Windowing	640 × 512/320 × 256
Arbitrary size windowing (down to)	2 × 2
Arbitrary size windowing (steps)	Horizontal: ≥2, steps of 2 pixels Vertical: ≥2, steps of 2 pixels
Maximum image frequency (full frame)	106 Hz
Maximum image frequency	3690 Hz
Maximum frame rate[1]	• 167 Hz @ 640 × 512 ITR • 321 Hz @ 320 × 256 ITR • 594 Hz @ 160 × 128 ITR • 3695 Hz @ 1280 × 2 ITR
Integration time range	500 ns–20 000 µs
Integration time step	12.5 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base—medium
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%

1. Some cameras also have a minimum frame rate, unspecified. Contact your FLIR representative for more information.

FLIR X8400sc

P/N: 66901-0101
© 2017, FLIR Systems, Inc.
#66901-0101; r. /42915; en-US

Physical data	
Size (L × W × H)	• 233 mm × 150 mm × 178 mm (9.17″ × 5.91″ × 7.01″) (without LCD) • 233 mm × 150 mm × 178 mm (9.17″ × 5.91″ × 8.71″) (with LCD)
Weight without lens	4.650 kg (10.250 lb.) without LCD 5.100 kg (11.240 lb.) with LCD
Tripod mounting	UNC ¼″-20

Power system	
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W

Environmental data	
Operating temperature range	–20°C/+50°C (–4°F/122°F)
Bump	Operational 15G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	Yes
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	5.8 Me-
Filter wheel	4 slots for 1″ filter up to 2.5 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	12.5 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 × (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V Frequency: 0.001 Hz to 250 kHz

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	2 × Mini MDR26
Tap number	2 (A/B/C/D)
Bit depth	16 bpp

P/N: 66901-0101
© 2017, FLIR Systems, Inc.
#66901-0101; r. /42915; en-US

Radio	
Wi-Fi	802.11g
	Frequency range: 2412–2462 MHz
	Maximum output power: 15 dBm
Antenna	Internal

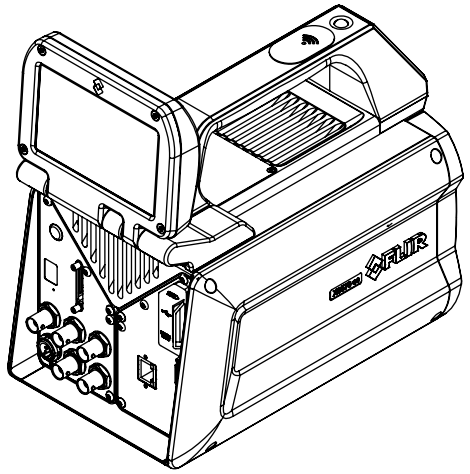
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008133
UPC-12	845188008482
Country of origin	Sweden

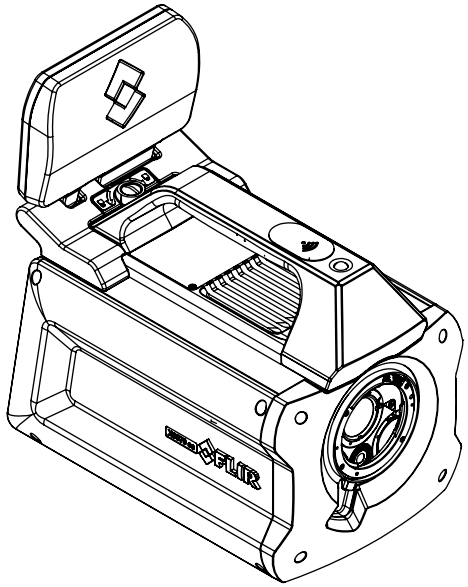
Lenses	
Available optic 1	L1002 MW 50 2.0 HD
Available optic 2	L1003 MW 28 2.0 HD
Available optic 3	L1013 MW 100 2.0 HD
Available optic 4	L1101 MW 200 2.0 HD
Available optic 5	L1117 MW Close up ×3 HD
Available optic 6	
Available optic 7	
Available optic 8	
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

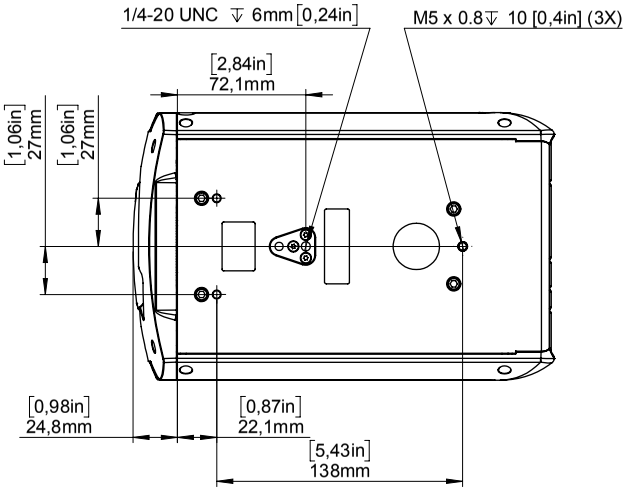
Supplies & accessories:

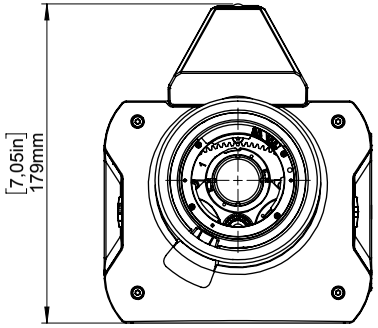
- T128379ACC; FLIR Platinum SDK

X6/X8xxx sc with bayonet mount

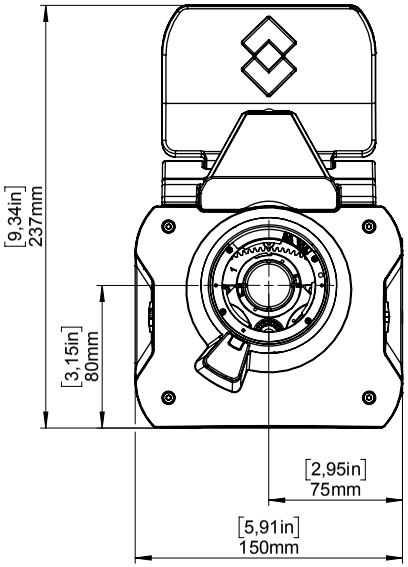


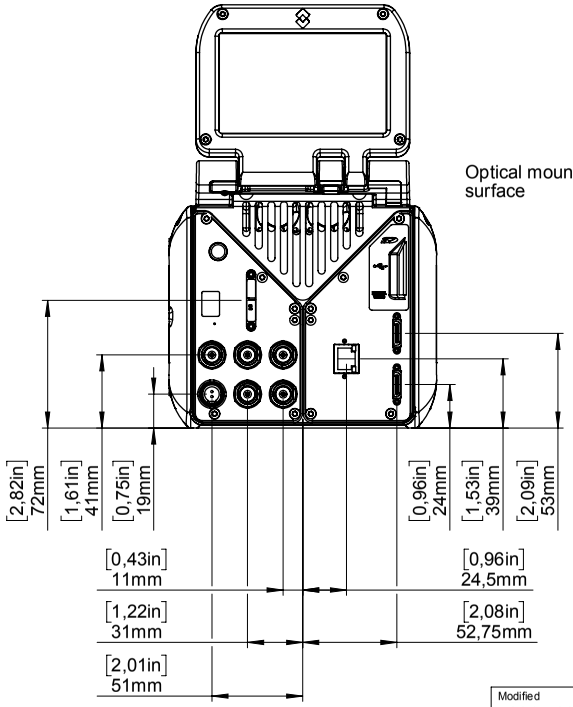


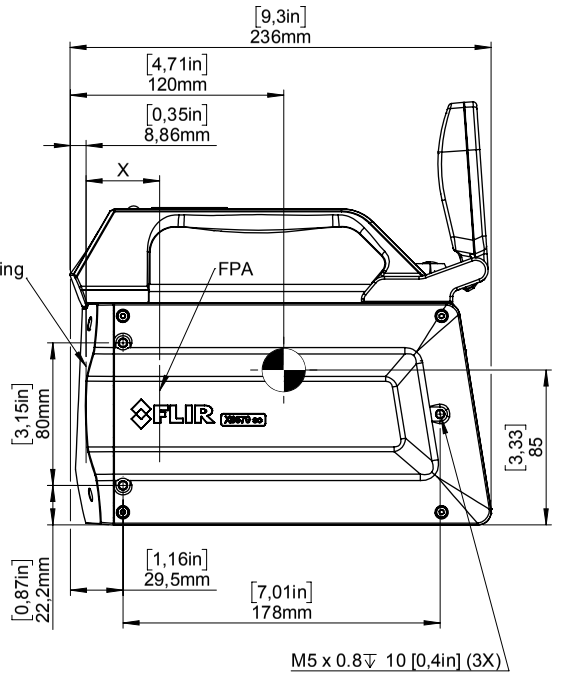




With display removed







Model name	X	Weight
X6520sc	41.28 mm [1,625 in]	4800 g ± 5 %
X6530sc	41.28 mm [1,625 in]	4800 g ± 5 %
X6540sc	41.28 mm [1,625 in]	4800 g ± 5 %
X6550sc	41.28 mm [1,625 in]	4800 g ± 5 %
X6580sc	41.28 mm [1,625 in]	4800 g ± 5 %
X8400sc	47.90 mm [1,886 in]	5100 g ± 5 %

Modified	Check	Drawn by
2017-02-07	FRGU	R&D Instruments

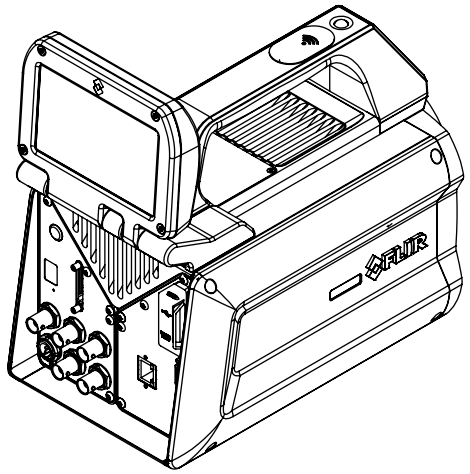
Denomination: X6/X8xxx - Basic dimension

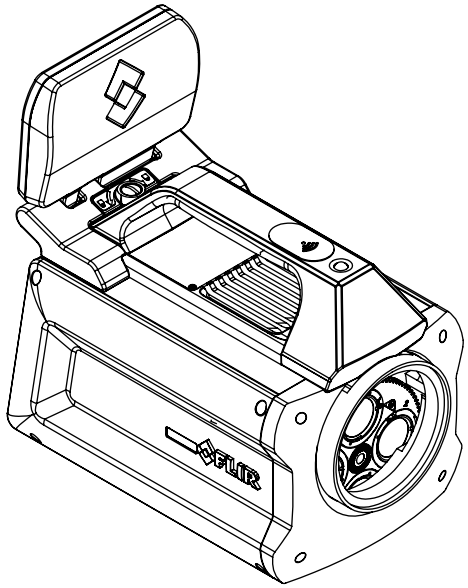
Size: A3 | Scale: 1:3 | Sheet: 1(2)

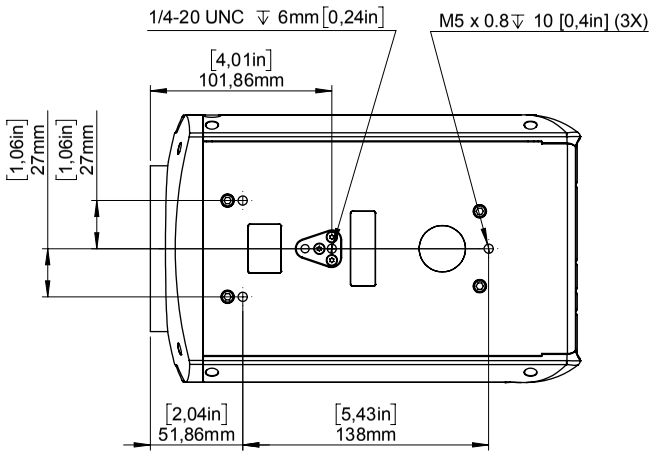
Drawing No.: T130229 | Rev: A

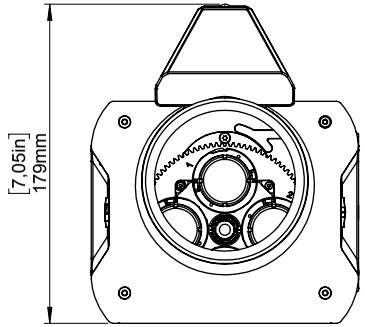
© 2016, FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional data is based on nominal values. Products may be subject to regional market considerations. License procedures may apply. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.

X6/X8xxx sc with M80 mount

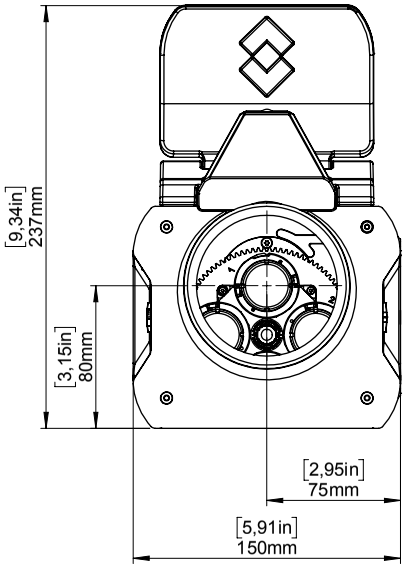


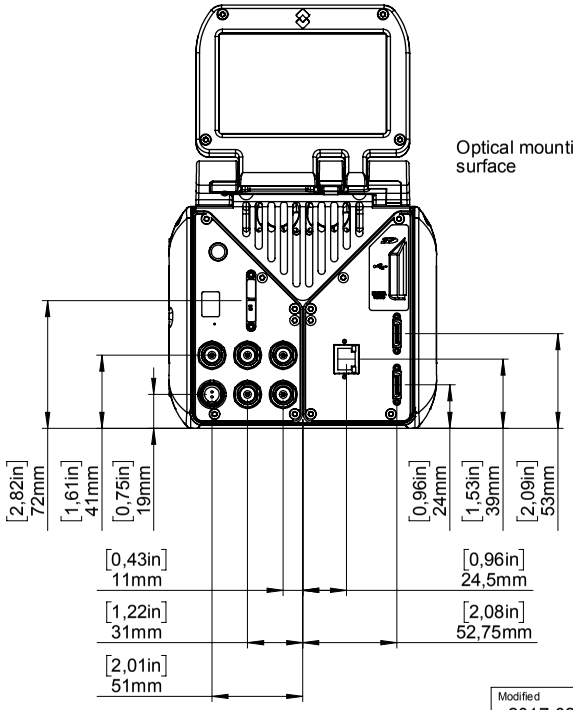


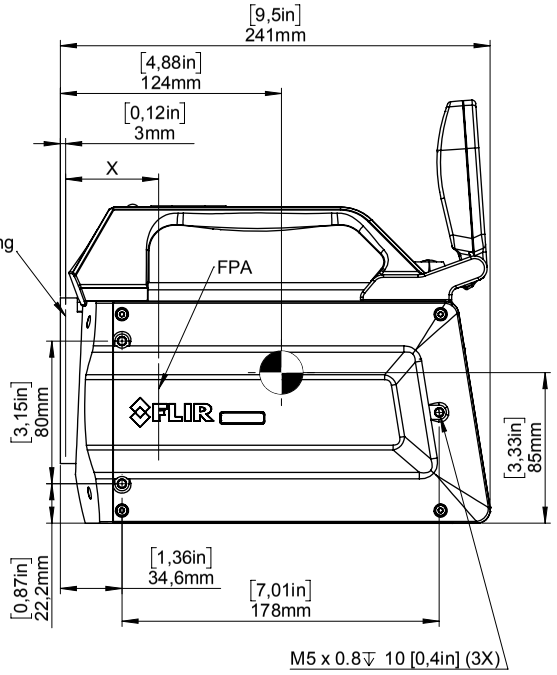




With display removed







Model name	X	Weight
X6520sc	52.24 mm [2,057 in]	4850 g ± 5 %
X6530sc	52.24 mm [2,057 in]	4850 g ± 5 %
X6540sc	52.24 mm [2,057 in]	4850 g ± 5 %
X6550sc	52.24 mm [2,057 in]	4850 g ± 5 %
X6570sc	52.24 mm [2,057 in]	5000 g ± 5 %
X6580sc	52.24 mm [2,057 in]	4850 g ± 5 %
X8400sc	58,86 mm [2,317 in]	5100 g ± 5 %

Modified	Check	Drawn by
2017-02-07	FRGU	R&D Instruments

Denomination

X6/X8xxx - Basic dimension

Size	Scale	Sheet
A3	1:3	2(2)

Drawing No.	Rev
T130229	A

© 2016, FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional data is based on nominal values. Products may be subject to regional market considerations. License procedures may apply. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.