FLIR X6570sc

P/N: 79402-0202

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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	
Sensor material	MCT
Image size	640 × 512
Pitch	15 µm
Aperture	f/2
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	160 × 1
Arbitrary size windowing (steps)	Horizontal: ≥4, steps of 4 pixels. Vertical: ≥1, steps of 1 pixel
Maximum frame rate (full frame)	234 Hz
Maximum frame rate[1]	• 233 Hz @ 640 × 512 @ 10 µs/ITR • 871 Hz @ 320 × 256 @ 10 µs/ITR • 2872 Hz @ 160 × 128 @ 10 µs/ITR • 14550 Hz @ 160 × 1 @ 10 µs/ITR
Integration time range	10–20 000 µs
Integration time step	12.5 ns
Integration time mode	ITR
Shutter	No
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	80 K
Operability	>99%

Mechanical/environmental	
Dimensions (L × W × H) (without lens)	• 233 mm × 150 mm × 178 mm (9.17 in. × 5.91 in. × 7.01 in.) (without LCD) • 233 mm × 150 mm × 221 mm (9.17 in. × 5.91 in. × 8.70 in.) (with LCD)
Weight without lens	• 4.550 kg (10.030 lb.) without LCD • 5.000 kg (11.020 lb.) with LCD
Power supply	24 V DC

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

Vertrieb für Österreich:

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Mechanical/environmental	
Power consumption (cooldown/stab)	48 W/35 W
Operational temperature	–20°C/+50°C (–4°F/122°F)
Shock	Operational 6 ms, 25*g*, IEC 68-2-29
Vibration	Operational 2*g*, IEC 68-2-26

Radiometry	
Spectral band	Long-wave infrared
Spectral range	7.7–9.3 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUC/Hypercal	Yes
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	150°C (302°F)
Filter wheel	4 slots for 1 in. filter up to 2.5 mm thick
Filter holding	Bayonet

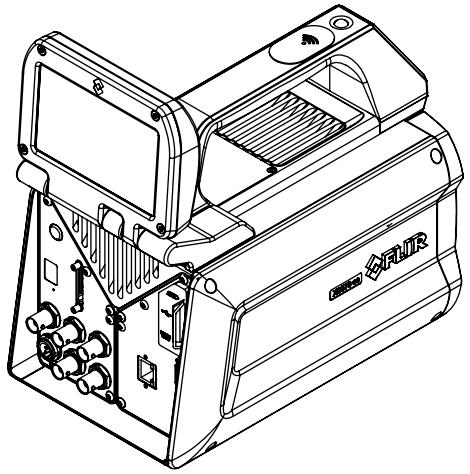
Timings and signals	
Optical interface	M80
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN Jitter	12.5 ns
SYNC IN active edge	Falling or rising edge
Analog signals	1 x (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V. Frequency: 0.001 Hz to 250 kHz

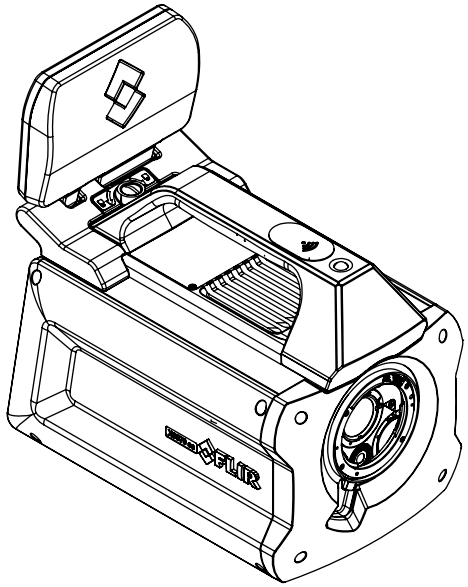
GigE	
GigE Vision	Yes
Genicam	On specific configuration only

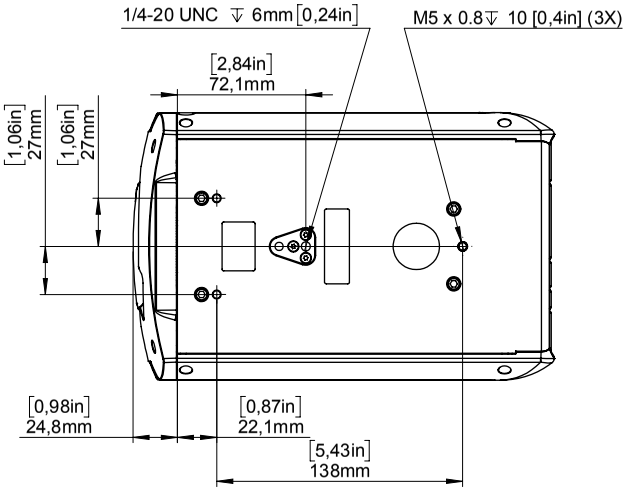
Camera link	
Connector type	1 × Mini MDR26
Wi-Fi type	802.11g

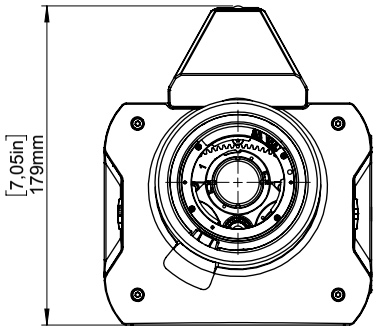
Lenses	
Available optics	• L0306—12 mm f/2 • L0324—25 mm f/2 • L0302—50 mm f/2 • L0201—100 mm f/2 • L0113TV—200 mm f/F2 • L0215—G1 f/2

X6/X8xxx sc with bayonet mount









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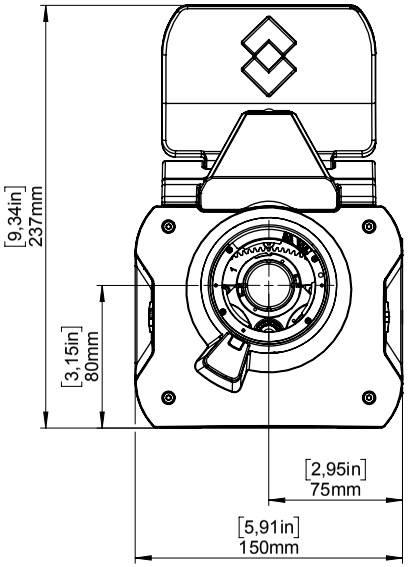

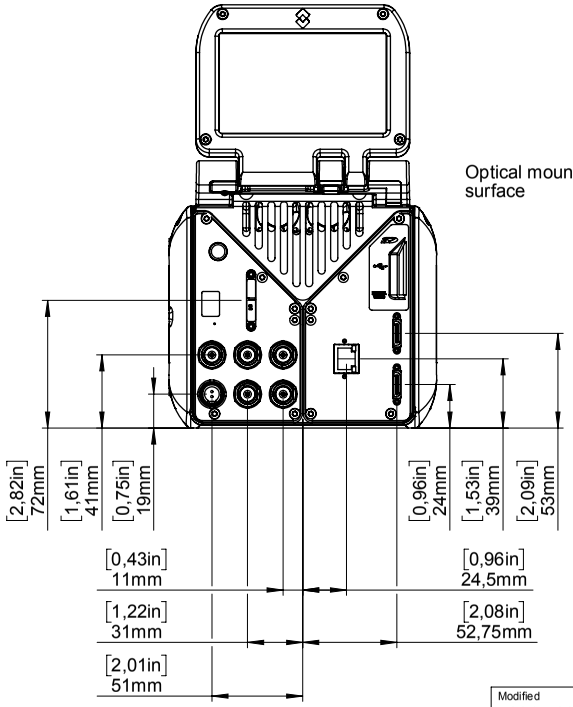

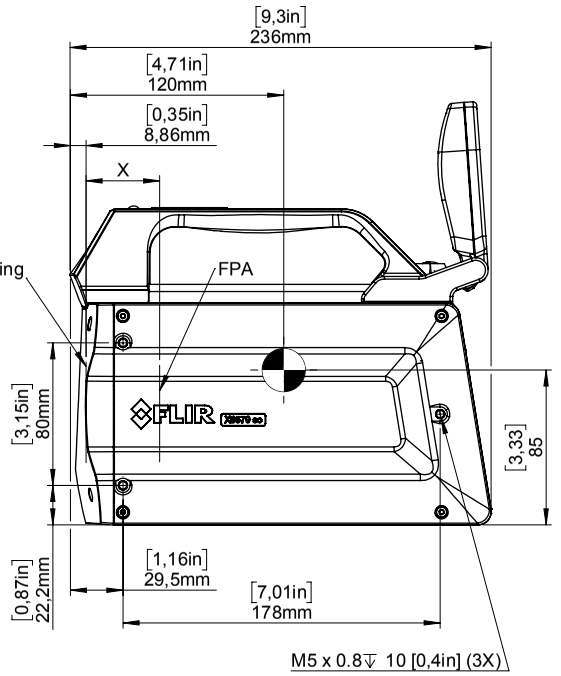

Model name	X	Weight
X6520sc	41.28 mm [1,625 in]	4800 g ± 5 %
X6530sc	41.28 mm [1,625 in]	4800 g ± 5 %
X6540sc	41.28 mm [1,625 in]	4800 g ± 5 %
X6550sc	41.28 mm [1,625 in]	4800 g ± 5 %
X6580sc	41.28 mm [1,625 in]	4800 g ± 5 %
X8400sc	47.90 mm [1,886 in]	5100 g ± 5 %

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

Denomination

X6/X8xxx - Basic dimension

Size	Sheet
A3	1(2)

Scale 1:3

Drawing No.	Rev
T130229	A

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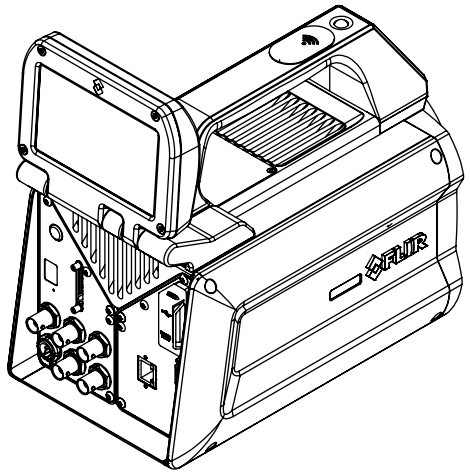
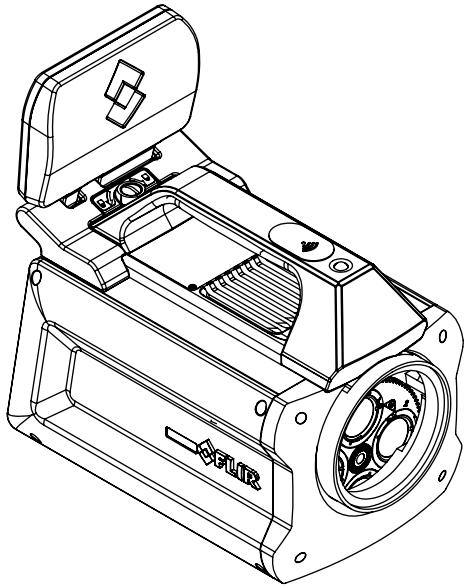
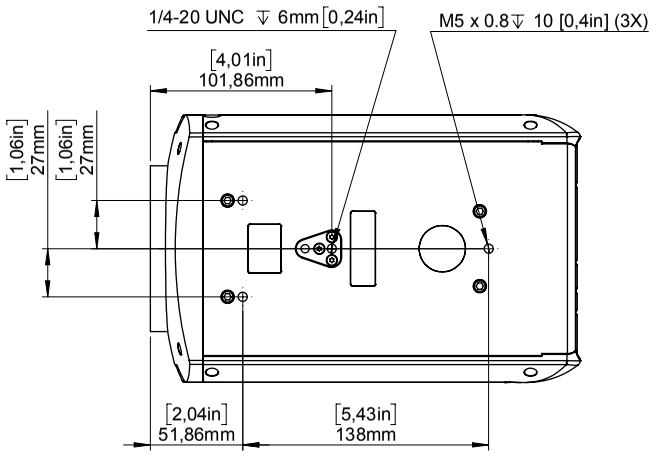
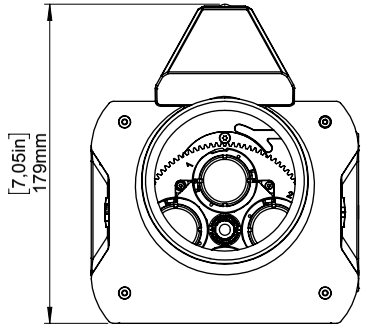
X6/X8xxx sc with M80 mount









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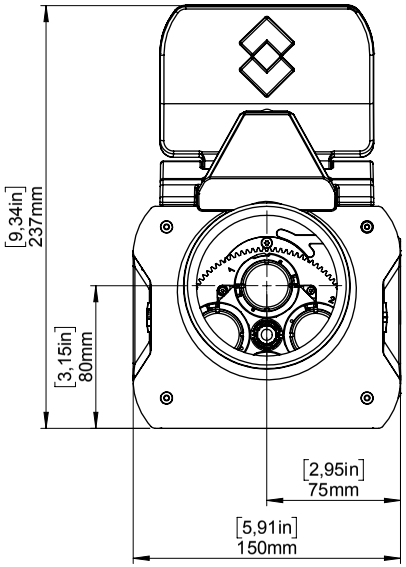

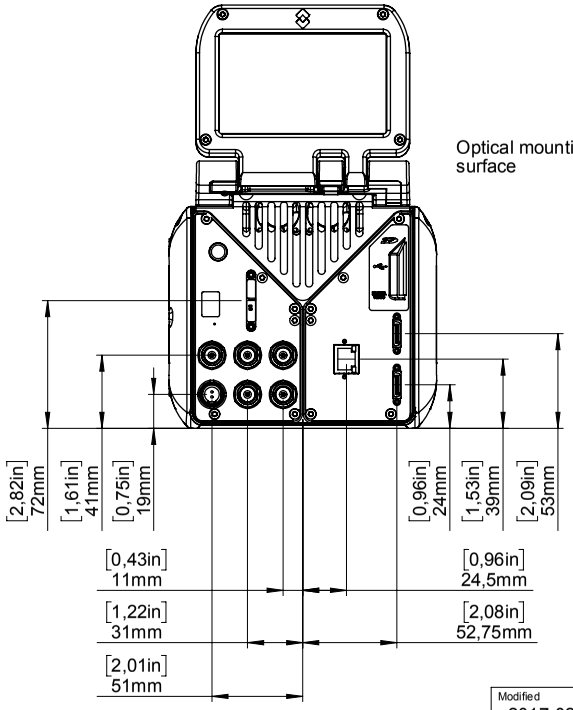

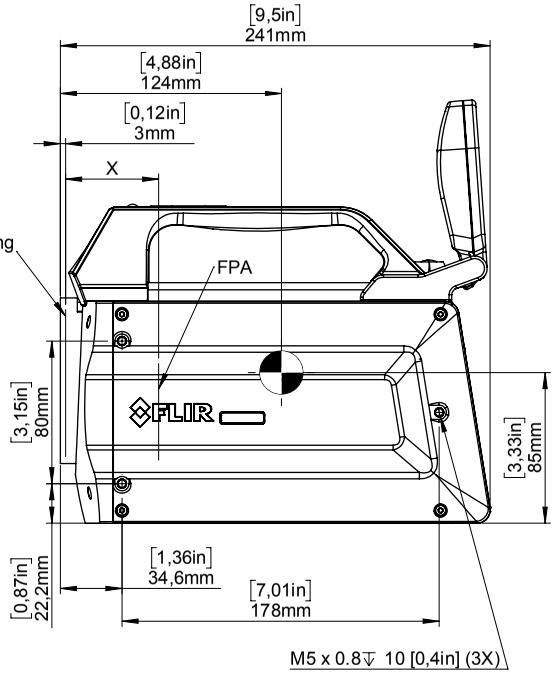

Model name	X	Weight
X6520sc	52.24 mm [2,057 in]	4850 g ± 5 %
X6530sc	52.24 mm [2,057 in]	4850 g ± 5 %
X6540sc	52.24 mm [2,057 in]	4850 g ± 5 %
X6550sc	52.24 mm [2,057 in]	4850 g ± 5 %
X6570sc	52.24 mm [2,057 in]	5000 g ± 5 %
X6580sc	52.24 mm [2,057 in]	4850 g ± 5 %
X8400sc	58,86 mm [2,317 in]	5100 g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

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2017-02-07	FRGU	R&D Instruments

Denomination

X6/X8xxx - Basic dimension

Size	Sheet
A3	2(2)

Scale 1:3

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