

## P/N: 80601-0101

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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](mailto:exportquestions@flir.com) with any questions.



<b>Detector/image</b>	
Sensor material	MCT
Image size	640 × 512
Pitch	15 μm
Aperture	f/4
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	132 × 8
Arbitrary size windowing (steps)	Horizontal: ≥32, steps of 4 pixels. Vertical: ≥8, steps of 1 pixel
Maximum frame rate (full frame)	146 Hz
Maximum frame rate <sup>1</sup>	<ul style="list-style-type: none"> <li>• 146 Hz @ 640 × 512 IWR</li> <li>• 528 Hz @ 320 × 256/IWR</li> <li>• 1510 Hz @ 160 × 128/IWR</li> <li>• 3699 Hz @ 132 × 8/IWR</li> </ul>
Integration time range	80 ns to 20 000 μs
Integration time step	80 ns
Integration time mode	IWR/ITR
Shutter	No
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	80 K
Operability	>99%
<b>Mechanical/environmental</b>	
Dimensions(L × W × H) (without lens)	<ul style="list-style-type: none"> <li>• 233 mm × 150 mm × 178 mm (9.17 in. × 5.91 in. × 7.01 in.) (without LCD)</li> <li>• 233 mm × 150 mm × 221 mm (9.17 in. × 5.91 in. × 8.70 in.) (with LCD)</li> </ul>
Weight without lens	<ul style="list-style-type: none"> <li>• 4.350 kg (9.590 lb.) without LCD</li> <li>• 4.800 kg (10.580 lb.) with LCD</li> </ul>
Power supply	24 V DC

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



# FLIR X6520sc

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<b>Mechanical/environmental</b>	
Power consumption (cooldown/stab)	48 W/35 W
Operational temperature	-20°C/+50°C (-4°F/122°F)
Shock	Operational 6 ms, 25g, IEC 68-2-29
Vibration	Operational 2g, IEC 68-2-26
<b>Radiometry</b>	
Spectral range	3.7–4.8 μm
Thermal sensitivity/NETD	<25 mK
CNUC/Hypercal	Yes
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	150°C (300°F)
Filter wheel	4 slots for 1 in. filter up to 2.5 mm thick
Filter holding	Bayonet
<b>Timings and signals</b>	
Optical interface	USL bayonet
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	20 ns
SYNC IN active edge	Falling or rising edge
Analog signals	1 × (0/+10V), 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
<b>GigE</b>	
GigE Vision	Yes
Genicam	On specific configuration only
<b>Camera link</b>	
Connector type	1 × Mini MDR26
Wi-Fi type	802.11g
<b>Lenses</b>	
Available optics	<ul style="list-style-type: none"><li>• L1008 MW 50 2.0 640 × 512</li><li>• L1009 MW 25 2.0 640 × 512</li><li>• L1019 MW 100 2.0 640 × 512</li><li>• L1114 MW Close up X3</li></ul>

### Supplies & accessories:

- T198970; Lens MW 1x f/3.0 WD30
- 4222206; Spare 4TB SSD Shuttle (4x960GB SSDs)
- 4142360; ResearchIR Max HSDR CAMERA LINK CORE2 2TB (computer not included)
- 4142361; ResearchIR Max HSDR COAXPRESS CORE2PLUS 2TB KIT (computer not included)
- 4142363; ResearchIR Max Portable HSDR CAMERA LINK CORE2 2TB (computer included)
- 4142362; ResearchIR Max Portable HSDR COAXPRESS CORE2PLUS 2TB (computer included)



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- 4222208; ResearchIR Max HSDR CAMERA LINK CORE2 4TB (computer not included)
- 4222209; ResearchIR Max HSDR COAXPRESS CORE2PLUS 4TB KIT (computer not included)
- 4223016; ResearchIR Max Portable HSDR CAMERA LINK CORE2 4TB (computer included)
- 4222995; ResearchIR Max Portable HSDR COAXPRESS CORE2PLUS 4TB (computer included)
- INST-EW-0000; Extended Warranty - Manual pricing
- INST-EWGM-0000; Premium Service Package - Manual pricing
- INST-GM-0220; General Maintenance Package for SC5000, SC7000, X84XXsc, X65XXsc