

P/N: 66602-0202

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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	
Detector type	Focal plane array (FPA)
Sensor material	MCT
IR resolution	640 × 512
Detector pitch	15 μm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	132 × 8
Arbitrary size windowing (steps)	Horizontal: ≥132, steps of 4 pixels Vertical: ≥8, steps of 1 pixel
Maximum image frequency (full frame)	146 Hz
Maximum image frequency	3690 Hz
Maximum frame rate ¹	<ul style="list-style-type: none"> • 146 Hz @ 640 × 512 IWR • 528 Hz @ 320 × 256 IWR • 1510 Hz @ 160 × 128 IWR • 3699 Hz @ 132 × 8 IWR
Integration time range	80 ns–20 000 μs
Integration time step	80 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	80 K
Operability	>99%

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

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Physical data	
Size (L x W x H)	<ul style="list-style-type: none"> 233 mm x 150 mm x 178 mm (9.17" x 5.91" x 7.01") (without LCD) 233 mm x 150 mm x 178 mm (9.17" x 5.91" x 8.71") (with LCD)
Weight without lens	4.350 kg (9.590 lb.) without LCD 4.800 kg (10.580 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) (-4°F/122°F)
Shock	Operational 25g, 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 (18 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	150°C (302°F)
Well capacity (e-)	6.36 Me- (ITR) 4.99 Me- (IWR)
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	20 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 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
Ethernet	
GigE Vision	Yes
Camera link	
Connector type	1 x Mini MDR26
Tap number	1 (A/B)
Bit depth	16 bpp



FLIR X6530sc M80

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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	7332558008089
UPC-12	845188008437
Country of origin	Sweden

Lenses	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

Supplies & accessories:

- T198970; Lens MW 1x f/3.0 WD30
- 4222206; Spare 4TB SSD Shuttle (4x960GB SSDs)
- T128379ACC; FLIR Platinum SDK
- 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)
- 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