





www.flir.com/products/C8



Key Features

- Superior thermal imaging quality with the 320 × 240 (76,800 pixels) true thermal imager for faster and more accurate analysis to find faults and anomalies
- Flir-patented MSX® enhancement, which embosses visible details onto thermal images for faster problem identification
- Isotherm instantly detects if temperature of equipment is exceeding a set threshold

Main Applications

- Electrical and mechanical maintenance
- HVAC, building diagnostics and restoration
- Electric vehicle inspections

Specifications

IR resolution 320 × 240 pixels Thermal sensitivity/ NETD Field of view (FOV) 35° × 27° Minimum focus distance	Imaging and optical data		
NETD <50 mK	IR resolution	320 × 240 pixels	
Minimum focus distance Spatial resolution (IFOV) F-number 1.4 Image frequency Focus Focus Focus free Digital zoom Detector data Detector type Focal plane array, uncooled microbolometer Spectral range 7.5–13 Image presentation Display resolution 640 × 480 pixels Screen size 3.5 in Aspect ratio 4:3 Auto orientation Yes, capacitive	_	<50 mK	
distance Spatial resolution (IFOV) F-number 1.4 Image frequency Pocus Focus Focus free Digital zoom Detector data Detector type Spectral range 7.5–13 μm Detector pitch 12 μm Image presentation Display resolution 640 × 480 pixels Screen size 3.5 in Aspect ratio 4:3 Auto orientation Yes, capacitive	Field of view (FOV)	35° × 27°	
(IFOV) F-number 1.4 Image frequency Focus Focus Focus free Digital zoom Petector data Detector type Spectral range Touch screen 2.0 mrad/pixel 2.1 mage frequency 9 Hz Focus free Pocus fr		0.4 m (1.3 ft)	
Image frequency 9 Hz Focus Focus free Digital zoom Yes, zoom pinch, 1 to 4× continuous Detector data Detector type Focal plane array, uncooled microbolometer Spectral range 7.5–13 μm Detector pitch 12 μm Image presentation Display resolution 640 × 480 pixels Screen size 3.5 in Aspect ratio 4:3 Auto orientation Yes Touch screen Yes, capacitive		2.0 mrad/pixel	
Focus Focus free Digital zoom Yes, zoom pinch, 1 to 4× continuous Detector data Detector type Focal plane array, uncooled microbolometer Spectral range 7.5–13 µm Detector pitch 12 µm Image presentation Display resolution 640 × 480 pixels Screen size 3.5 in Aspect ratio 4:3 Auto orientation Yes Touch screen Yes, capacitive	F-number	1.4	
Digital zoom Yes, zoom pinch, 1 to 4× continuous Detector data Detector type Focal plane array, uncooled microbolometer Spectral range 7.5–13 μm Detector pitch 12 μm Image presentation Display resolution 640 × 480 pixels Screen size 3.5 in Aspect ratio 4:3 Auto orientation Yes Touch screen Yes, capacitive	Image frequency	9 Hz	
Detector data Detector type Focal plane array, uncooled microbolometer Spectral range 7.5–13 μm Detector pitch 12 μm Image presentation Display resolution 640 × 480 pixels Screen size 3.5 in Aspect ratio 4:3 Auto orientation Yes Touch screen Yes, capacitive	Focus	Focus free	
Detector type Focal plane array, uncooled microbolometer Spectral range 7.5–13 µm Detector pitch 12 µm Image presentation Display resolution 640 × 480 pixels Screen size 3.5 in Aspect ratio 4:3 Auto orientation Yes Touch screen Yes, capacitive	Digital zoom	Yes, zoom pinch, 1 to 4× continuous	
Spectral range 7.5–13 μm Detector pitch 12 μm Image presentation Display resolution 640 × 480 pixels Screen size 3.5 in Aspect ratio 4:3 Auto orientation Yes Touch screen Yes, capacitive	Detector data		
Detector pitch 12 μm Image presentation Display resolution 640 × 480 pixels Screen size 3.5 in Aspect ratio 4:3 Auto orientation Yes Touch screen Yes, capacitive	Detector type	Focal plane array, uncooled microbolometer	
Image presentation Display resolution 640 × 480 pixels Screen size 3.5 in Aspect ratio 4:3 Auto orientation Yes Touch screen Yes, capacitive	Spectral range	7.5–13 μm	
Display resolution 640 × 480 pixels Screen size 3.5 in Aspect ratio 4:3 Auto orientation Yes Touch screen Yes, capacitive	Detector pitch	12 μm	
Screen size 3.5 in Aspect ratio 4:3 Auto orientation Yes Touch screen Yes, capacitive	Image presentation		
Aspect ratio 4:3 Auto orientation Yes Touch screen Yes, capacitive	Display resolution	640 × 480 pixels	
Auto orientation Yes Touch screen Yes, capacitive	Screen size	3.5 in	
Touch screen Yes, capacitive	Aspect ratio	4:3	
	Auto orientation	Yes	
Display technology IPS	Touch screen	Yes, capacitive	
	Display technology	IPS	

Image adjustment	Automatic level and span / Manual level and span / 1-Touch level and span	
Image modes	Infrared image / Visual image / MSX / Picture-in- picture (IR area on visual image)	
Gallery	Yes, incl. thumbnails and custom folder structure	
Measurement		
Object temperature range	-20°C to 450°C (-4°F to 842°F)	
Accuracy at ambient temperature	• 0°C to 100°C (32°F to 212°F): ±2°C (±5.5°F) • 100°C to 450°C (212°F to 842°F): ±2%	
Measurement analysis		
Measurement functions	Spot / Box with max. and min. / Isotherm	
Measurements correction	Emissivity; matt/semi-matt/semi-glossy + custom value / Reflected apparent temperature / Atmospheric compensation	
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC	
Service functions		
Camera software update	Automatic over Wi-Fi / USB via computer	
Storage of images		
Storage media	Built-in	
Image storage capacity	>5000 sets of images	
Image file format	Standard JPEG, 14-bit measurement data included	







www.flir.com/products/C8

Specifications, cont.

Image annotations	
Text	Soft keyboard on touchscreen, auto-prompt for
	note when image is saved
Video streaming	
Non-radiometric video	Yes; MSX, Thermal, Visual, Picture-in-Picture.
streaming	USB video class colorized uncompressed with overlay 9 Hz.
Digital camera	
Resolution	5 MP
Focus	Fixed
Field of view	71.5° × 56° (84° diagonal)
Video lamp	Yes
Data communication interfaces	
Wi-Fi	802.11 a/b/g/n (2.4 and 5 GHz)
USB	USB 2.0, Type-C connector
Bluetooth	Yes
Power system	
Battery type	Rechargeable lithium-ion battery (built-in)
Battery operating time	3 hours
Charging system	USB-C
Charging time	2 hours
Power management	Adjustable stand-by and automatic shut-down
Environmental data	
Operating temperature range	-10°C to 50°C (14°F to 122°F)
Storage temperature range	-40°C to 70°C (-40°F to 158°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
EMC	 EN 301 489-1 RED EN 301 489-17 FCC 47 CFR Part 15 B, Class B

Encapsulation	Camera housing and lens: IP54 (IEC 60529)
Vibration	2 g (IEC 60068-2-6)
Drop	Designed for 2 m (6.56 ft)
Environmental safety	REACH Regulation EC 1907/2006 ROHS2 Directive 2011/65/EC WEEE Directive 2012/19/EC Proposition 65
Physical data	
Weight (including battery)	0.19 kg (0.42 lb)
Size (L × W × H)	138 × 84 × 34 mm (5.4 × 3.3 × 0.94 in)
Tripod mounting	UNC 1/4"-20
Housing material	PC and ABS, partially covered with TPE / Aluminum
Packaging, contents	Flir C8, documentation, Flir Thermal Studio Starter, wrist strap lanyard, USB cable, pouch

Ordering Information

Model	Description
18801-0101	Compact 320 × 240 Thermal Camera with MSX and Flir
	Ignite Enabled

Accessories

Model	Description
T911940ACC	USB 2.0 A to USB Type-C cable, 1.0 m (black)
T300341	Flir Thermal Studio Standard, 1 year subscription
T8510156	Flir Ignite PRO 1000 GB with professional
T8510155	Flir Ignite PRO 100 GB with professional
T132572ACC	Flir C8 Pouch
PROTECT-C8	Flir Protect 3 Year Extended Warranty for Flir C8

Scan below to learn more about Flir C8



For technical or sales support, please visit: www.support.flir.com/C8

This product is subject to United States export regulations and may require US authorization prior to export, reexport, or transfer to non-US persons or parties. Diversion contrary to US law is prohibited.

For assistance with confirming the Jurisdiction & Classification of Teledyne Flir, LLC products, please contact exportquestions @flir.com. @2025 Teledyne Flir, LLC. All rights reserved.