Compact Thermal Camera



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 0.4 m (1.3 ft) Spatial resolution (IFOV) 2.0 mrad/pixel F-number 1.4 Image frequency 9 Hz Focus 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 Display technology IPS	Imaging and optical of	data
NETD <50 mK	IR resolution	320 × 240 pixels
Minimum focus distance 0.4 m (1.3 ft) Spatial resolution (IFOV) 2.0 mrad/pixel F-number 1.4 Image frequency 9 Hz Focus Focus free Digital zoom Yes, zoom pinch, 1 to 4× continuous Detector data Detector type Spectral range 7.5–13 μm Detector pitch 12 μm Image presentation Display resolution Display resolution 640 × 480 pixels Screen size 3.5 in Aspect ratio 4:3 Auto orientation Yes Touch screen Yes, capacitive	•	<50 mK
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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 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 Camera software update Automatic over Wi-Fi / USB via computer Storage of images Storage media Internal memory and onboard Flir Ignite™ cloud connectivity with Wi-Fi Image storage >5000 sets of images Image file format Standard JPEG, 14-bit measurement data included			
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Storage media Internal memory and onboard Flir Ignite™ cloud connectivity with Wi-Fi Image storage capacity >5000 sets of images		Automatic over Wi-Fi / USB via computer	
connectivity with Wi-Fi Image storage >5000 sets of images capacity	Storage of images		
Image storage >5000 sets of images capacity	Storage media	Internal memory and onboard Flir Ignite™ cloud	
capacity		connectivity with Wi-Fi	
Image file format Standard JPEG, 14-bit measurement data included		>5000 sets of images	
	Image file format	Standard JPEG, 14-bit measurement data included	







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Specifications, cont.

Image annotations		
Text	Soft keyboard on touchscreen, auto-prompt for note when image is saved	
Video streaming	Video streaming	
Non-radiometric video streaming	Yes; MSX, Thermal, Visual, Picture-in-Picture. USB video class colorized uncompressed with overlay 9 Hz	
Digital camera	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	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, 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
T8510155	Flir Ignite Pro 100 GB with professional reporting, 1 year subscription
T850118	Flir Ignite 10 GB, 1 year subscription
T850116	Flir Ignite 100 GB, 1 year subscription
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

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