SPECIFICATIONS

OVERVIEW

Accuracy	$\pm 2^{\circ}$ C ($\pm 3.6^{\circ}$ F) or $\pm 2\%$ of reading for ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F)
Alarm	Moisture alarm, insulation alarm, measurement alarms
Color alarm (isotherm)	Above/below/interval/condensation/insulation
Difference Temperature	Yes
Display Technology	IPS
Field of view (FOV)	24° x 18° (17 mm lens)
Focal Length	17 mm (0.67 in.), 24°
Housing material	PCABS with TPE, magnesium
IR Resolution	320 x 240
Laser	Class 2, 0.05–40 m (1.6–131 ft.) \pm 1% of measured distance
Object Temperature Range	•–20 to +120°C (–4 to 248°F) •0–650°C (32–1200°F) •Optional 300–1000°C (572–1830°F)
Packaging Size	500 x 190 x 370 mm (19.7 x 7.5 x 14.6 in.)
Programmable Buttons	1
Resolution	640 × 480 pixels (VGA)
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference
Thermal Sensitivity/NETD	<40 mK, 24° @ +30°C (+86°F)
Warranty	http://www.flir.com/warranty/
Compass GPS	Yes; automatic GPS image tagging
Text	Text from predefined list or soft keyboard on touchscreen

Time Lapse [Infrared]

Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Weight & Dimensions (without lens)	1 kg (2.2 lbs), 27.8 x 11.6 x 11.3 cm (11.0 x 4.6 x 4.4 in)

CONNECTIONS & COMMUNICATIONS

Audio	Microphone and speaker for voice annotation of images
Charging	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Communication Interfaces	USB 2.0, Bluetooth, Wi-Fi
Remote Control	•Using FLIR Tools (using USB cable) •FLIR Tools Mobile (over Wi-Fi)
Storage Media	Removable SD card (8 GB)
USB	USB Type-C: data transfer/video/power
USB - Standard	USB 2.0 High Speed
Video Out	DisplayPort over USB Type-C
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
WiFi	Peer to peer (ad hoc) or infrastructure (network)
Setup Commands	Local adaptation of units, language, date and time formats
ENVIRONMENTAL	
Drop	Designed for 2 m (6.6 ft.)
EMC	•ETSI EN 301 489-1 (radio) •ETSI EN 301 489-17 •EN 61000- 6-2 (immunity) •EN 61000-6-3 (emission) •FCC 47 CFR Part 15 Class B (emission)
Emissivity Correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Humidity (Operating and Storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77– 104°F)/two cycles

No

Operating Temperature Range	–15°C to 50°C (5°F to 122°F)
Radio Spectrum	•ETSI EN 300 328 •FCC Part 15.249 •RSS-247 Issue 2
Safety	EN/UL/CSA/PSE 60950-1
Storage Temperature Range	–40°C to 70°C (-40°F to 158°F)
Tripod Mounting	UNC 1/4"–20
Shock & Vibration & Encapsulation	25 g / IEC 60068-2-27, 2 g / IEC 60068-2-6, IP 54 /IEC 60529; EN/UL/CSA/PSE 60950-1
IMAGING & OPTICAL	
Additional lenses	•42° •14°
Aspect ratio	4:3
Auto Rotation	Yes
Camera software update	Use PC software FLIR Tools
Color	Black
Color depth (bits)	24
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Detector Type and Pitch	Uncooled microbolometer, 17 μm
Digital Camera	5 MP, 53° x 41° FOV
Digital Zoom	1-4x continuous
f-number	1.3, 24°
Field of view match	Yes
Focus	Continuous, one-shot laser distance meter (LDM), one-shot contrast, manual
Gallery	Yes
Image Adjustment	•Automatic •Automatic maximum •Automatic minimum

•Manual

Image Frequency	30 Hz
Image Modes	Infrared, visual, MSX®, Picture-in-Picture
Image Sketch	Yes: on infrared images only
Infrared Image	Yes
Lens Identification	Automatic
Minimum Focus Distance	0.15 m (0.49 ft.), 24°
Minimum Focus Distance with MSX	0.5 m (1.64 ft.), 24°
Non-Radiometric IR or Visual Video	H.264 to memory card
Non-radiometric IR video streaming	H.264 or MPEG-4 over Wi-Fi MJPEG over UVC or Wi-Fi
Picture-in-Picture	Resizable and movable
Radiometric IR video recording	Real-time radiometric recording (.csq)
Radiometric IR video streaming	Over UVC
Spatial resolution (IFOV)	1.31 mrad/pixel, 24°
Spectral Range	7.5 - 14.0 μm
Viewfinder	No
MSX	Embosses visual details on full resolution thermal image
Sketch	From touchscreen
UltraMax	Super-resolution process quadruples pixel count, activated in FLIR Tools+
Viewing Angle	80°
Visual Video Streaming	Yes

MEASUREMENT & ANALYSIS

Area	1 in live mode
Area measurement information	No
Languages	21
Measurement Corrections	Yes
Measurement Presets	No measurement, center spot, hot spot, cold spot, User Preset 1, User Preset 2
Reference Temperature	Yes
Spot Meter	3 in live mode
Laser Distance Measurement	Yes, on-screen
Automatic hot & cold detection	Auto-maximum/minimum markers within area
METER DATA	
Cover Glass Material	Dragontrail®
Display	4", 640 x 480 optically-bonded PCAP touchscreen, with 400 cd/m2 surface brightness
POWER	
Battery Life (Operating)	> 2.5 hours at 25°C (68°F) and typical use
Battery operating time	Approx. 2.5 hours at 25°C (77°F) ambient temperature and typical use
Battery size (L x W x H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Battery Type	Li-ion battery, charged in camera or on separate charger
Battery voltage	3.6 V
Battery weight	140 g (4.9 oz.)

Charging Temperature	0°C to +45°C (+32°F to +113°F)
Charging Time (using two- bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
External Power Operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power Management	Automatic shut-down and sleep mode
SHIPPING INFORMATION	
Packaging	Infrared camera with lens, battery (2 ea), battery charger with power supply, front lens and light protection, straps (hand and wrist), lanyards, lens caps (front and rear), lens cleaning cloth, 15 W3 A power supply, printed documentation, 8 GB SD card, Torx screwdriver, cables (USB 2.0 A to USB Type-C,USB Type-C to HDMI, USB Type-C to USB Type-C)