

Technical T420 (incl. Wi-Fi))ata

Part number

62103-1101

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March 31, 2014, 08:45 PM

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Legal disclaimer http://support.flir.com

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply.

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Imaging and optical data

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IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<45 mK @ +30°C (+86°F)
Field of view (FOV) / Minimum focus distance	$25^{\circ} \times 19^{\circ} / 0.4 \text{ m} (1.31 \text{ ft.})$
Spatial resolution (IFOV)	1.36 mrad
Image frequency	60 Hz
Focus	Automatic (one shot) or manual
Zoom	2× and 4× digital zoom
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 7.5–13 μm

Image presentation	
Display	Touch screen, 3.5 in. LCD, 320×240 pixels
Auto orientation	Automatic landscape or portrait
Image modes	Thermal, Thermal MSX, Picture in Picture, Digital Camera
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	−20°C to +120°C (−4°F to +248°F) 0°C to +650°C (+32°F to +1202°F)

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Accuracy

 $\pm 2^{\circ} C$ (±3.6°F) or $\pm 2\%$ of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

easurement analysis	
ootmeter	Cī
ea	5 areas (boxes or circles) with max./min./average
stomatic hot/cold detection	Auto hot or cold spotmeter markers within area
easurement presets	No measurements, Center spot, Hot spot, Cold spot, 3 spots, Hotspot-spot, Hotspot-Temperature
fference temperature	Delta temperature between measurement functions or reference temperature
eference temperature	Manually set using difference temperature
nissivity correction	Variable from 0.01 to 1.0 or selected from materials list
easurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
olors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
olor Alarm (isotherm)	Above/below/interval
easurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Page 1 (of 4) http://www.flir.com

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4-pole 3.5 mm jack	Video, connector type
Composite	Video out
 USB-A: Connect external USB device USB Mini-B: Data transfer to and from PC / Uncompressed colorized video 	USB
Peer to peer (adhoc) or infrastructure (network)	Wi-Fi
Communication with headset and external sensors	Bluetooth
USB-mini, USB-A, Bluetooth, Wi-Fi, composite video	Interfaces
	Data communication interfaces
Position is automatic displayed on the IR image	Laser alignment
Activated by dedicated button	Laser
	Laser pointer
Adapts to the IR lens	Digital camera, FOV
3.1 Mpixel with LED light	Built-in digital camera
	Digital camera
MPEG-4 using Wi-Fi Uncompressed colorized video using USB	Visual video streaming
MPEG-4 using Wi-Fi Uncompressed colorized video using USB	Non-radiometric IR-video streaming
Full dynamic to PC using USB or to mobile devices using Wi-Fi.	Radiometric IR-video streaming
	Video streaming
MPEG-4 to memory card	Visual video recording
MPEG-4 to memory card	Non-radiometric IR-video recording
	Video recording in camera
Camera direction automatically added to every image	Compass
Instant Report (*.pdf file) in camera including IR and visual images Separate PC software with extensive report generation	Report generation
Wireless connection (Bluetooth®) to: Flir meters with MeterLink	Meterlink
Add short note (stored in JPEG exif tag)	Image description
Add table. Select between predefined templates or create your own in FUR Tools	Text
60 seconds (via Bluetooth) stored with the image	Voice
	Image annotations
15 seconds to 24 hours	Time lapse
Simultaneous storage of thermal and digital photo in same JPEG. Optional to store digital photo as separate JPEG.	Image storage mode
Standard JPEG, including digital photo and measurement data, on memory card	Image storage
	Storage of images
Use PC software FLIR Tools	Camera software update
Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information	Set-up commands
	Set-up
Difference temperature alarm, audible	Screening
	Measurement analysis

62103-1101_en_50.xml, ver. 1.1

Page 3 (of 4)



FLIR T420 (incl. Wi-Fi)

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Radio	
Wi-Fi	Standard: 802.11 b/g Frequency range: 2412–2462 MHz Max output power: 15 dBm
Bluetooth	Frequency range: 2402-2480 MHz
Antenna	Internal
Power system	
Battery	Li lon, 4 hours operating time
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
Environmental data	
Operating temperature range	−15°C to +50°C (+5°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
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 B (Emission) ICES-003
Radio spectrum	 ETSI EN 300 328 FCC Part 15.247 RSS-210
Encapsulation	IP 54 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	ENUL/CSA/PSE 60950-1
Physical data	
Camera weight, incl. battery	0.880 kg (1.94 lb.)
Camera size $(L \times W \times H)$	$106\times201\times125$ mm (4.2 \times 7.9 \times 4.9 in.), with built-in lens pointing forward
Tripod mounting	UNC ¼"-20 (adapter needed)
Shipping information	
 Battery (2 ea.) Battery charger Bluetooth headset Camera lens cap 	

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