FLIR T1K

HD Thermal Imaging Camera

Get ready for outstanding thermal infrared performance, built on 50 years of experience. With its remarkable range, up to 3.1 MP in resolution, and customization to fit your needs, the T1K is designed to be the ultimate tool to streamline your workday, and make you the hero. For the sharpest images, the truest temperatures, the most flexibility – the T1K is the ultimate result of five decades of infrared expertise.

Exceptional Measurement Performance

When you need the most accurate temperature measurements, from wide angle to telephoto

- The FLIR OSX™ Precision HDIR optical system lets you take accurate measurements from 2x as far away
- Continuous autofocus mode keeps pace with your movements
- Advanced OSX optical system ensures accurate measurements in extreme conditions
- Unique optical path eliminates error from heat sources outside the field of view

Outstanding Image Clarity

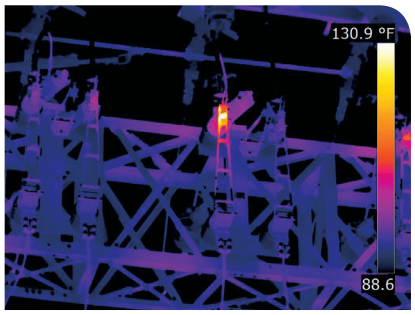
An extraordinarily sensitive detector, enhanced by the processing power of UltraMax™

- 1024 x 768 detector offers the best resolution of any FLIR hand-held camera
- Exceptional thermal sensitivity of < 0.02°C at +30°C, 2x better than the industry standard
- UltraMax™ super-resolution quadruples the pixel count up to 3.1 MP, for finer detail and accuracy
- MSX® embosses visual details on the thermal image

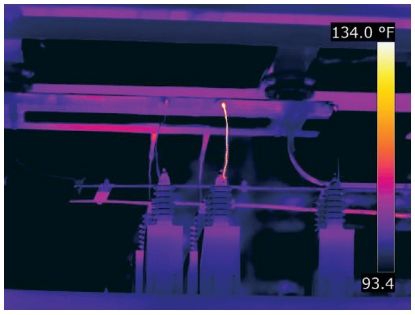
Features and User Interface Designed for the Expert

Compact design, responsive user interface, and instant report generation make your workday easier and more productive

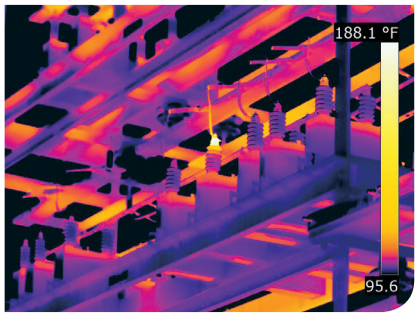
- Programmable buttons allow you to configure the camera to fit your work flow
- Dynamic focus control adjusts to your touch so you can dial in images perfectly
- Radiometric recording captures full resolution, full-frame video for comprehensive analysis
- One-click Rapid Report™ generation lets you share images and findings fast



Overheating substation circuit breaker



Hot power line transformer



Failing transformer coil against a cold sky

Specifications

Model Numbers	FLIR T1020
Imaging and Optical Data	
IR Sensor	1024 × 768 (786,432 measurement pixels)
Thermal Sensitivity/NETD	< 0.02°C at +30°C
Lens Choices	12°, 28°, 45°, 3x Close-up
Minimum Focus Distance	0.2m (0.66 ft.) to 0.8m (2.13 ft.), depending upon the lens
Image Frequency	30 Hz
Spectral Range	7.5 - 14 µm
4.3" Display	800 x 480 pixels
Auto Orientation	Yes
Touch Screen	Yes
Image Presentation Modes	
Thermal Image	Yes
Visual Image	Yes
UltraMax™	Unique super-resolution process quadruples pixel count, up to 3.1 MP
MSX®	Embosses visual details on full resolution thermal image, for clear text and location identification
Gallery	Yes
Measurement	
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal
Measurement Analysis	
Measurement Tools	10 spotmeters, 5+5 areas (boxes, circles) with min./max./average
Emissivity Correction	Variable from 0.01 to 1.0 or selected from materials list
Measurements Correction	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Color Palettes	Iron, Rainbow, Rainbow HC, White Hot, Black Hot, Arctic, Lava
Storage of Media	
Storage Media	Removable SD card (Class 10)
Image File Format	Standard JPEG, including digital photo and measurement data
Video Recording/Streaming	
Radiometric IR-Video Recording	Real-time radiometric recording to SD card
Non-Radiometric IR-Video Recording	H.264 to SD card
Radiometric IR-Video Streaming	Real-time radiometric streaming via USB
Non-Radiometric IR-Video Streaming	H.264 video using Wi-Fi or USB
Digital Camera	
Digital Camera	FOV adapts to the IR lens
Video Lamp	Built-in LED light
Additional Information	
USB, Connector Type	USB Micro-AB Data transfer to and from PC/Uncompressed colorized video
Battery	Rechargeable Li-ion polymer battery
Battery Operating Time	> 2.5 hours at 25°C (+68°F)
Charging System	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging Time	2.5 hours to 90% capacity
External Power Operation	AC adapter, 90-260 VAC input, 50/60 Hz or 12 V output from a vehicle (cable with standard plug, optional)
Power Management	Automatic power-off functionality, user-configurable
Storage Temp. Range	-40°C to +70°C (-40°F to 158°F)
Weight	1.9 kg (4.3 lb.) to 2.1 kg (4.6 lb.), depending upon lens model
Tripod Mounting	UNC ¼"-20

System Includes:

Infrared camera with lens	Hard transport case	Power supply, including multi-plugs	User documentation on CD-ROM
Battery (2 each)	Large eyecup	USB cable, Standard A to Micro-B	Printed documentation
Battery charger	Lens cap	Calibration certificate	Bluetooth headset
HDMI-HDMI cable	Neck strap	FLIR Tools+ license card	SD card

Covers parts and labor for two years, batteries for five, and detector for ten.

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