

FLIR T1K

HD THERMAL IMAGING CAMERA



THE ULTIMATE IN INFRARED PERFORMANCE



The World's Sixth Sense™

INTRODUCING THE FLIR T1K

OUTSTANDING INFRARED PERFORMANCE, BUILT ON 50 YEARS OF EXPERIENCE

Born out of five decades of infrared expertise, the FLIR T1K is designed for thermography experts who need the highest quality without compromise.

Designed and built by FLIR, the OSX™ Precision HDIR optical system provides unsurpassed image clarity, detail, and temperature accuracy, from wide angle to telephoto.

With its dynamic focus control, continuous auto focus, and responsive user interface, the T1K definitely raises the bar on user-friendly performance. Its rugged, ergonomic design and rotating optical block take the stress out of a day-long list of inspections, making it easier to scan at difficult angles.

For the sharpest results, the truest temperatures, the most flexibility – the T1K delivers the quality an expert like you expects from experts like us.

EXPERT FEATURES FOR EXPERT NEEDS:

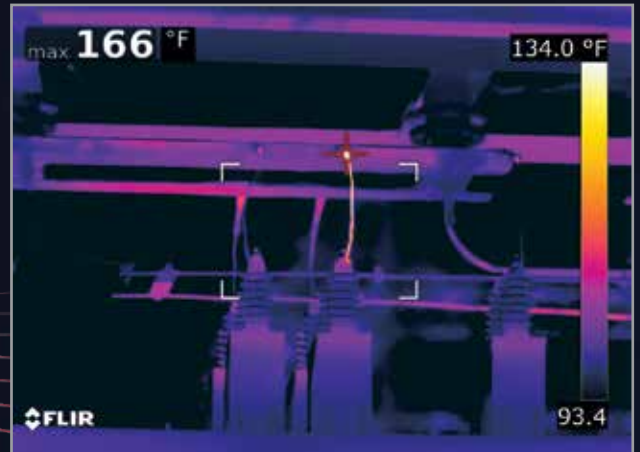
- High Definition thermal imagery, to help you see more
- Up to 3.1 MP resolution with UltraMax™
- Pin-point accurate temperature measurements
- Continuous autofocus for greater efficiency
- Take longer range measurements, from 2x farther away
- Thermal sensitivity that's 2.5x better than industry standard
- Never miss a hot spot – record continuous radiometric video
- Customized functionality to fit your expert needs

FLIR 2-5-10 WARRANTY

The T1K is covered by our revolutionary FLIR 2-5-10 warranty when registered within 60 days of purchase.

- 2 Years on camera parts and labor
- 5 Years on Li-Ion batteries
- 10 Years on the IR detector

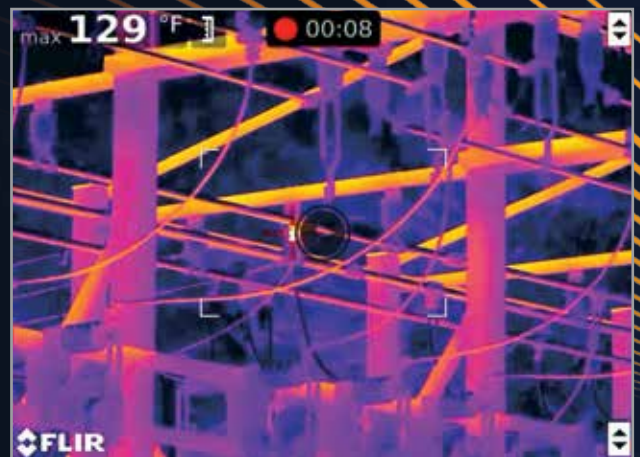
Only FLIR can provide peace of mind like this, because only FLIR makes its critical camera components from the ground up.



MEASURE TARGETS FROM A SAFE DISTANCE WITHOUT THE NEED FOR A TELEPHOTO LENS



FLIR'S PATENTED MSX® ALLOWS YOU TO READ TEXT AND SEE VISIBLE DETAIL WITHOUT SACRIFICING MEASUREMENT DATA



RECORD ENTIRE INSPECTIONS WITH REAL-TIME RADIOMETRIC VIDEO, AND USE THE FLIR T1K AS A PORTABLE ANALYSIS POWERHOUSE



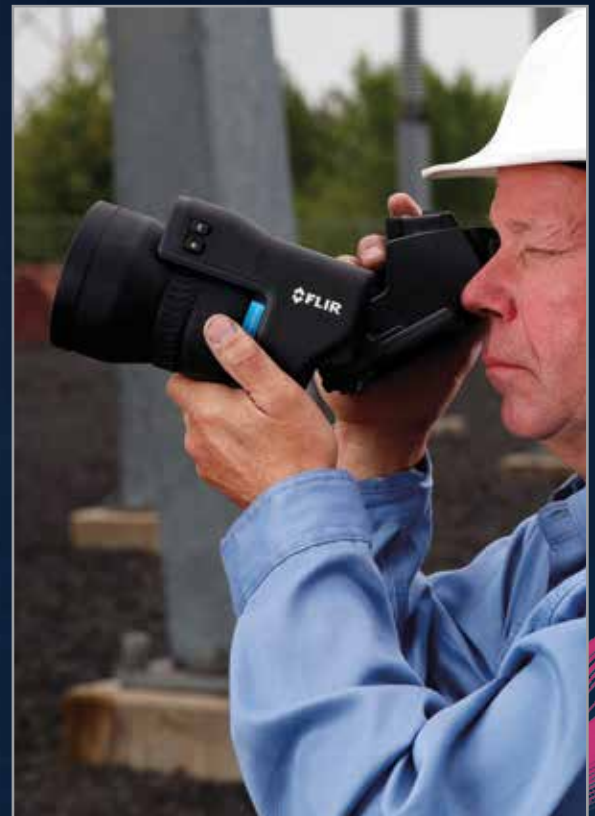
THE OPTICS ADVANTAGE:

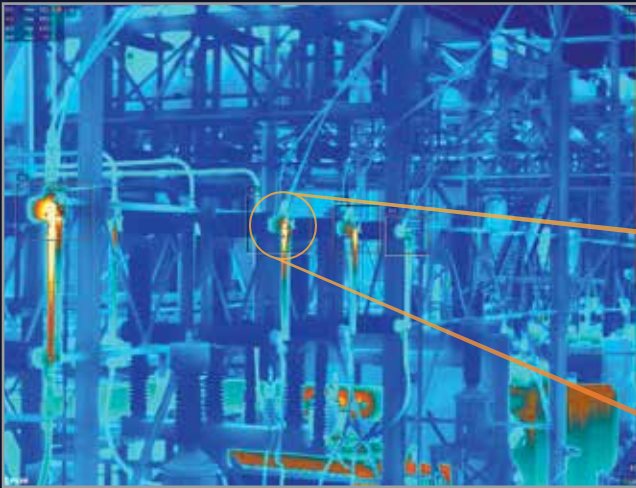
- Lenses designed specifically for use with HD detectors
- HDIR optics deliver crisp, high quality images
- Exceptional range performance
- Ultrasonic Drive delivers powerful continuous and manual focus



OPTIMAL ERGONOMICS:

- Rotating optical block puts any target in comfortable viewing range
- Target and scan in bright daylight with high-resolution viewfinder
- Dynamic focus control adjusts to your touch
- Designed to be comfortable in your hand, for all-day surveys





ULTRAMAX™

FLIR's UltraMax is a unique processing technique that allows you to generate reports with images that have up to four times as many pixels and 50% less noise than standard native images. More pixel coverage with UltraMax helps fill in inactive gaps, producing denser temperature measurements for greater thermal accuracy from even farther away.

WITH ULTRAMAX™ SUPER-RESOLUTION, THE T1K EXCEEDS 3 MP IN RESOLUTION WHILE MAINTAINING MEASUREMENT PERFORMANCE



EASE OF USE:

- Highly responsive touch screen makes menu navigation easy
- One-click Rapid Report™ streamlines reporting/analysis workflow
- Wi-Fi for image sharing & remote control via smart devices
- Voice, text, or sketch annotations add important detail to images



SUPPORT FROM ITC

Expand your expertise, enhance your career, and get the most out of your camera with valuable courses from the Infrared Training Center. At ITC, you can take an initial training course and get certified as a Level 1 Thermographer, or receive advanced training in specialized fields of thermography. ITC training is a vital investment that will help you use your new thermal camera successfully.

www.infraredtraining.com

FLIR T1K

EXCEPTIONAL PRECISION OPTICS,
OUTSTANDING IMAGE CLARITY, RUGGED ERGONOMIC DESIGN –
THE INNOVATIONS YOU'VE ALWAYS WANTED

KEY FEATURES

FLIR DSX™ Precision HDIR Optics
Superior range performance allows for accurate measurements from twice as far away

Configurable to Your Needs
Four programmable buttons, rotating optical block, and dynamic focus that responds to your touch

Most Accurate Temperatures
Move between extreme hot and cold conditions and still get accurate measurements

Rugged and Reliable
Rubberized optics and rugged camera housing built for your tough environment

Avoid Glare in Bright Surroundings
High resolution viewfinder with glare-reducing eyecup makes scanning easier in daylight conditions

Outstanding Image Clarity
The 1024 x 768 detector delivers 2.5x the pixels of a 640 x 480 native resolution camera

FLIR Image Processing
MSX®, UltraMax™ and adaptive filtering algorithms ensure smoothest, most detailed images

Highly Responsive User Interface
Touch screen is FLIR'S fastest and most responsive

Continuous Autofocus
Keeps pace with your movements so photos and videos stay in focus



SPECIFICATIONS

Model Numbers	FLIR T1020
Imaging and Optical Data	
IR Sensor	1024 x 768, 3.1 MP with UltraMax™
Thermal Sensitivity/NETD	<0.02 °C at +30° C
Lens Choices	12°, 28°, 45°, 3x Close-up
Minimum Focus Distance	0.4 m (1.32 ft.)
Spatial Resolution (IFOV)	0.47 mrad
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
MSX®	Embosses visual details on full resolution thermal image, for clear text and location identification
UltraMax™	Unique super-resolution process quadruples pixel count, up to 3.1 MP
Measurement	
Temperature range	-40 to +2000°C
Accuracy	±1°C (±1.8°F) or ±1% @25°C for temperatures between 5°C to 150°C ±2°C (±3.6°F) or ±2% of reading @ 25°C for temperatures up to 1200°C
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	Field of View Match: 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.)
System Includes:	
Infrared camera with lens, battery (2 each), battery charger, HDMI-HDMI cable, hard transport case, Bluetooth headset, SD card, large eyecup, lens cap, neck strap, power supply (including multi-plugs USB cable), standard A to Micro-B, calibration certificate, FLIR Tools+ license card, CD-ROM user documentation, printed documentation	

PORTLAND Corporate Headquarters

FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
PH: +1 866.477.3687

NASHUA

FLIR Systems, Inc.
9 Townsend West
Nashua, NH 03063
USA
PH: +1 866.477.3687
PH: +1 603.324.7611

CANADA

FLIR Systems, Ltd.
920 Sheldon Court
Burlington, ON L7L 5L6
Canada
PH: +1 800.613.0507

BRAZIL

FLIR Systems Brasil
Av. Antonio Bardella, 320
Sorocaba, SP 18052-852
Brasil
PH: +55 15 3238 7080

EUROPE

FLIR Commercial Systems
Luxemburgstraat 2
2321 Meer
Belgium
PH: +32 (0) 3665 5100

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. Specifications are subject to change without notice. For the most up-to-date specs, visit our website: www.flir.com/T1K. ©2015 FLIR Systems, Inc. All other brand and product names are trademarks of FLIR Systems, Incorporated. Imagery used for illustration purposes only. 8/2015

IND_026_EN