



HD THERMAL IMAGING CAMERA

FLIR T1010

MODEL: FLIR T1010 28°

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The FLIR T1010 is your entry to the world of outstanding thermal imaging performance. With up to 3.1 MP resolution (UltraMax®), superior thermal sensitivity, and FLIR's most advanced user interface, the T1010 is designed to streamline your workday, and make you the hero.

PRODUCT VARIATIONS:

FLIR T1010 28° ▼

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Built for the Experts, by the Experts



HD RESOLUTION, WIDE TEMPERATURE RANGE

The T1010 records 1024 × 768 true HD resolution images, with thermal measurements up to 650°C (1202°F).

EXPERT FEATURES

With programmable buttons, an agile GUI, and live image enhancements such as 1-Touch Level/Span, the T1010 has the expert features you need.

COMPACT AND EASY TO USE

The T1010 has a robust yet compact frame with a 120° rotating optical block that puts any target within comfortable viewing range.

Outstanding Image
Clarity

The T1010 uses the power of FLIR Vision Processing™ to deliver detailed, smooth pictures with very little image noise. FLIR Vision Processing combines HD resolution, MSX®, and UltraMax® image enhancement with FLIR's proprietary adaptive filtering algorithms to produce brilliant thermal images with up to 3.1 million pixels. Plus, the T1010 is sensitive enough to detect temperature differences down to <20 mK, for clear, low-noise results that keep you from missing any potential issues during inspections.



SPECIFICATIONS

OVERVIEW

Built-in Digital Camera	5 Mpixel with LED light
Detector Type	Focal plane array (FPA), uncooled microbolometer
Difference Temperature	Delta temperature between the measurement functions and the reference temperature
Focal Length	36 mm (1.42 in)
Housing material	Magnesium
IR Resolution	1024 × 768; up to 3.1 MP with UltraMax
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish
Laser	Activated by a dedicated button
Laser Alignment	Position is automatically displayed on the infrared image
Laser Classification	Class 2



Get-up Commands

APPLICATIONS

Save options, programmable button, reset options, set-up camera, language, units, info

PRODUCTS

DISCOVER

SUPPORT

NEWS

ABOUT



Spectral Range	7.5–14 μ m
Tripod Mounting	UNC ¼"-20
Weight	1.9 kg (4.3 lb)
Time Lapse	No
User Presets	The user can select and combine measurements from one box and one delta

CONNECTIONS & COMMUNICATIONS

Antenna	Internal (disabled)
Interface	USB Micro-B, HDMI
SD Card	One card slot for removable SD memory cards
Storage Media	Removable media SD or SDHC card. Class 10 or better recommended
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video
USB - Standard	USB 2.0 High Speed USB Micro-B connector
Video Connector Type	HDMI type C

ENVIRONMENTAL

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) ICES-003
Emissivity Correction	Variable from 0.01 to 1.0 or selected from the materials list
Encapsulation	IP 54 (IEC 60529)
Ergonomics	The 120° rotating optical block allows you to point the camera in

multiple directions while maintaining a comfortable position

Humidity (Operating and Storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles
Operating Temperature Range	-15°C to 50°C (5°F to 122°F)
Radio Spectrum	ETSI EN 300 328 FCC Part 15.247 RSS-247 Issue 2
Safety	EN/UL/CSA/PSE 60950-1
Shock	25 g (IEC 60068-2-29)
Storage Temperature Range	-40 to 70°C (-40 to 158°F)
Vibration	2 g (IEC 60068-2-6)

IMAGING & OPTICAL

Auto orientation	Automatic landscape or portrait
Automatic Image Adjustment	Standard or histogram based on the image content
Camera size excl lens (L x W x H)	167.2 mm × 204.5 mm × 180.4 mm (6.6 in. × 8.0 in. × 7.1 in.)
Camera software update	Use PC software FLIR Tools
Color palettes	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Detector Pitch	17 µm
Digital Camera	Field of view adapts to the infrared lens
Digital image enhancement	Adaptive digital noise reduction
Digital Zoom	1–8× continuous
Display Type	Capacitive touchscreen
f-number	1.15
Field of view (FOV)	28° × 21°

Gallery	Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera
Image Frequency	30 Hz
Image Modes	Thermal, thermal MSX, digital camera
Infrared Image	Full color infrared image
Lens Identification	Automatic
Manual Image Adjustment	Linear based, possible to adjust level/span/max./min.
Minimum IR focus distance	1.3 m (4.26 ft)
Minimum IR–visual alignment distance	1.3 m (4.26 ft)
MSX Resolution	1024 × 768 pixels
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Non-radiometric IR video recording	H.264 to the memory card
Non-radiometric IR video streaming	H.264 video using USB
Spatial resolution (IFOV)	0.47 mrad
Viewfinder	No
Visual Video Recording	H.264 to the memory card
4.3" Display	800 × 480 pixels
UltraMax	Yes
Video Lamp	Built-in LED light
Visual Image	Full color visual image
Visual Video Streaming	H.264 video using USB

MEASUREMENT & ANALYSIS

Area	1 box with max./min./average
External Optics & Windows Correction	Automatic, based on the inputs of the window transmission and temperature
Measurement Corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Measurement Presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
Object Temperature Range	-40°C to 650°C (-40°F to 1202°F)
Optics Transmission Correction	Automatic, based on signals from internal sensors
Reference Temperature	Yes
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
Spot Meter	1
Thermal Sensitivity/NETD	<25 mK @ 30°C (86°F)
Object temperature range Accuracy	$\pm 2^{\circ}\text{C}$ ($\pm 3.6^{\circ}\text{F}$) or $\pm 2\%$ of reading at 25°C for temperatures from -40°C up to 1200°C

METER DATA

Display	Built-in touchscreen, 4.3 in. wide screen LCD, 800 × 480 pixels
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POWER

Battery operating time	>2.5 hours at 25°C (68°F) and typical use
Battery type	Rechargeable Li ion battery
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging Temperature	0°C to 45°C (32°F to 113°F), except for the Korean market: 10°C to 45°C (50°F to 113°F)
Charging Time	2.5 hours to 90% capacity, 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 a standard plug, optional)

Power Management

Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

SHIPPING INFORMATION

Box Contents

Infrared camera with lens battery (2 each), battery charger, HDMI-HDMI cable, hard transport case, lens cap, neck strap, power supply including multi-plugs, USB cable (Standard A to Micro-B), calibration certificate, FLIR Tools+ license card, user documentation on CD-ROM, printed documentation, SD card

STORAGE MEDIA

File Formats

Standard JPEG, measurement data included No CSQ, measurement data included No CSQ storage on camera

File Formats - Visual

Standard JPEG, automatically associated with the corresponding thermal image

Image Storage

Standard JPEG, including digital image and measurement data, on a memory card

Image Storage Mode

Simultaneous storage of thermal and digital images in the same JPEG file Option to store a digital photo as a separate JPEG file

VIEW LESS

ACCESSORIES



CLOSE-UP LENS 3X [51 MM] WITH CASE [T199065]



USB CABLE, USB-A TO USB MICRO-B [T198533]



HDMI TYPE C TO HDMI TYPE A CABLE 1.5M [T910891ACC]