

NEW FEATURES

# FLIR T600-Series



State-of-the-art thermal imaging cameras that combine good ergonomics and flexibility with high image quality

The FLIR T600-Series offer a crisp thermal image of 640 x 480 pixels on which the smallest of details can be seen. The T600-Series is flexible, can meet your every need and has extensive communication possibilities.



### Up to 640x480 pixel resolution

The high definition 640x480 pixels detector generates crisp and clear detailed images that are easy to interpret, resulting in reliable inspections with higher accuracy.



### High sensitivity

The T640 allows you to see temperature differences as small as 0.035°C.



### Tiltable IR unit

The tiltable IR unit gives you great flexibility and allows you to work faster and in a comfortable position during your inspections.



### Large bright 4.3 inch LCD screen

The high quality LCD screen presents sharp and bright images also in outdoor environments.



### Viewfinder (FLIR T640)

The high-resolution viewfinder is ideal for outdoor use or when the LCD screen is not used.



### High quality visual camera

An integrated 5 megapixel visual camera generates crisp visual images in all conditions. Field of view adapts to IR-lens.



### Laser Pointer

The position of the laser pointer is highlighted on the thermal image, which helps you associate the hot spot in the image with the physical target.



### Flexible interfaces

Easy access to Digital Video Interface, USB for connecting external devices, USB2 for PC communication and a direct connection to charge the battery inside the camera.



### Radiometric IR video streaming

16 bit radiometric IR video can be streamed to a PC (via USB) running the FLIR software.



### MPEG-4 video

Create visual and infrared non radiometric MPEG-4 video files.



### FLIR Thermal Fusion

Merges visual and thermal images for better analysis.



### Picture-in-picture

Create an infrared overlay on your visual image. Moveable and resizable.



### Touch screen

The LCD touch screen brings interactivity and user comfort to a new level. In combination with the large backlit buttons and joystick control the T600-Series is very easy to use.



### Sketch annotations

Include a sketch with the thermal image of the inspected object, just draw it on the touch screen.



### Text and voice annotations

Text comments can be selected from a list. A Bluetooth headset can be connected to make voice annotations.



### Digital zoom

The FLIR T640 is equipped with a 1-8x continuous digital zoom and the T600/T620 with a 1-4x zoom.

## New features



### Multi Spectral Dynamic Imaging (MSX)

The innovative MSX feature produces an image more rich in every detail than ever before.



### Image sketch

Indicate problem areas directly on the thermal image.



### Continuous auto-focus

Continuous automatic focus on the object that you are inspecting.



### Built-in GPS

GPS allows to georeference thermal images to determine their geographic location.

Features dependant on camera model, please check technical specifications for more details.



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## Technical specifications

### Camera specific



	FLIR T600	FLIR T620	FLIR T640
<b>Imaging performance</b>			
Resolution	480x360 pixels	640x480 pixels	640x480 pixels
Spatial resolution	0.91 mrad for 25° lens 0.55 mrad for 15° lens 1.64 mrad for 45° lens	0.68 mrad for 25° lens 0.41 mrad for 15° lens 1.23 mrad for 45° lens	0.68 mrad for 25° lens 0.41 mrad for 15° lens 1.23 mrad for 45° lens
Thermal sensitivity (at 30 °C)	<40 mK @ 30 °C	<40 mK @ 30 °C	<35 mK @ 30 °C
Digital zoom	1-4x continuous, incl. panning	1-4x continuous, incl. panning	1-8x continuous, incl. panning
Focus	Automatic (one shot) or manual	Automatic (one shot) or manual	Continuous, one shot or manual
<b>Image presentation</b>			
MSX	N/A	N/A	IR image with MSX
Viewfinder	N/A	N/A	800x480 pixels
<b>Image annotation</b>			
Image sketch	N/A	N/A	On IR and visual image
<b>Report generation</b>			
Instant Report in camera	N/A	Automatic generation of PDF report based on selected images direct in camera	Automatic generation of PDF report based on selected images direct in camera
<b>Measurement</b>			
Temperature range, standard	-40 °C to +150 °C +100 °C to +650 °C	-40 °C to +150 °C +100 °C to +650 °C	-40 °C to +150 °C +100 °C to +650 °C +300 °C to +2,000 °C
Temperature range, optional	+300 °C to +2,000 °C	+300 °C to +2,000 °C	
<b>Measurement analysis</b>			
Line profile function	N/A	N/A	Live profile, H/V-direction
Measurement presets	N/A	N/A	Yes
<b>Geographic Information System</b>			
Built-in GPS	N/A	Location data automatically added to every image for referencing on WEB maps	Location data automatically added to every image for referencing on WEB maps

## General

<b>Imaging performance</b>	
Field of View (FOV) / minimum focus distance	25° x 19° / 0.25 m 15° x 11° / 0.5 m 45° x 34° / 0.15 m lens needs to be specified when ordering
Focal Plane array (FPA)	Uncooled microbolometer
Spectral range	7.5 to 14 µm
Image frequency	30 Hz



\* After product registration on [www.flir.com](http://www.flir.com)

# FLIR T600-Series



## Accessories

### Power



#### Cigarette lighter adaptor kit, 12 V DC, 1.2 m

[1910490]

Can be used to power the camera from the cigarette lighter socket in a car.



#### 2-bay battery charger, incl. power supply with multi-plugs

[T198126]

This 2-bay battery charger is used for charging FLIR Systems' camera batteries.



#### Battery

[T198055]

Extra battery that will allow you to spend extra time in the field doing inspections.



#### Power supply incl. Multi-plugs

[T910814]

This power supply is used when powering the camera from the mains supply or to charge the batteries. It comes with different types of plugs.

### Storage



#### Memory card micro-SD with adaptors

[T910737]

Capture images on the go with your camera. These small cards are easy to use and can hold a great amount of data.

### Cables



#### USB cable Std-A <-> Mini-B

[1910423]

USB cable to connect the camera with a computer, using the USB protocol.



#### HDMI to DVI cable, 1.5 m

[T910930]

Can be used to show the high resolution images of the camera on a screen with DVI input.



#### HDMI to HDMI cable, 1.5 m

[T910891]

Can be used to show the high resolution images of the camera on a screen with HDMI input.

### Headsets



#### Bluetooth® headset

[T197771]

Headset with Bluetooth® for wireless connection with the thermal imaging camera, including microphone.

### Extended measurement ranges

#### High temperature option +300°C up to +2,000°C

[T197896]

Allow to measure temperatures of up to +2,000°C with the camera.

## Lenses



### Lens 88.9 mm, 7° field of view incl. case

[T198166]

The 7° lens is a popular lens accessory and provides 3.6x magnification compared to the standard lens. Ideal for small or distant targets



### Lens 41.3 mm, 15° field of view incl. case

[T197914]

The 15° lens is a popular lens accessory and provides 1.7x magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.



### Lens 24.6 mm, 25° field of view incl. case

[T197922]

The standard 25° lens is suitable for the majority of applications.



### Lens 13.1 mm, 45° field of view incl. case

[T197915]

This wide angle lens has a field of view almost double that of the standard 25° lens. Perfect for wide or tall targets or when working in confined areas.



### Lens 6.5 mm, 80° field of view incl. case

[T198065]

This wide angle lens has a field of view of more than 3 times that of the standard lens. Ideal for shooting images of large objects from a short distance.



### Close-up lens 32 mm (fits 25° lens) incl. case

[T198059]

The 32 mm lens provides a 2.9X magnification and is ideal for development purposes like looking at PCB's or small electronic components. Can only be mounted on 25° lens.



### Close-up lens 64 mm (fits 25° lens) incl. case

[T198060]

The 64 mm lens provides a 5.8X magnification and is ideal for development purposes like looking at PCB's or small electronic components. Can only be mounted on 25° lens.

## Miscellaneous



### Hard transport case

[T197924]

Rugged, watertight plastic shipping case. Holds all items securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.



### Pouch

[T911048]

Soft pouch to protect the camera. Possible to attach to tool belt.



### Tool belt

[T911093]

Tool belt for thermal imaging camera pouches.



### Tripod adapter

[T197731]

Tripod adapter, necessary to be able to mount the camera on a tripod.



### Neck strap

[T124544]

Ties the camera around your neck so that it is protected against falling.



### Large eyecap

[T197883]

Can be mounted on the viewfinder.



### Stylus pen

[T197753]

Can be used to operate the touch screen.



### Extech Clamp meter EX845

[T910972]

Can be connected to the thermal imaging camera through MeterLink™



### Extech Moisture meter MO297

[T910973]

Can be connected to the thermal imaging camera through MeterLink™