FLIR T400-Series

Excellent ergonomics and extensive communication possibilities

The FLIR T400-Series offers a good performance at an affordable price. Excellent ergonomics and easy communication makes the FLIR T400-Series a truly user-friendly camera for the beginner and advanced user. With extensive communication possibilities including Wi-Fi and MeterLink (Bluetooth). The latest technology integrated in the camera allows for fast image processing and storage.



320 x 240 pixel resolution

The T400-Series has a thermal image resolution of 320 \times 240 pixels.



Camera sensitivity

The FLIR T400-series has a thermal sensitivity of < 45 mK.



High quality visual camera

Both models in the FLIR T400-Series have an integrated 3.1 Mpixel digital camera. Field of view adapts to IR lens.



Measurement range

The T400-series can measure temperatures up to +1200°C.



Interchangeable infrared lenses

The T400-Series features a standard 25° lens and optional 6°, 15°, 45° and 90° lenses.



Flexible interfaces

The T400-Series is equipped with standard video, USB outputs as well as a removable SD card.



MPEG-4 video

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



Thermal Fusion

Merges visual and thermal images to offer better analysis.



Temperature sound, image alarms

Make surveying easier and faster.



Picture-in-Picture

Create an infrared overlay on your visual image. Scalable, moveable and resizable.



Text and voice annotations

Text comments can be made from a pre-defined list or using the touch screen. A headset can be connected to make voice annotations.



Sketch annotations

Use the touch screen as pen and paper to add sketch annotations.



Image sketch (FLIRT440)

Indicate problem areas directly on the thermal image.



Radiometric IR video streaming

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



Image storage

FLIR uses a non proprietary radiometric JPEG image format that allows for post processing and report writing with Microsoft Word® based FLIR software.



Touch screen

3.5" LCD touch screen brings interactivity and user comfort to a new level.



Measurement Modes

Measurement spots, area with auto hot/cold spot indication, isotherms, ΔT calculation.*



Copy to USB

Transfer on board images or reports directly from the thermal imaging camera to a USB stick.



Instant reports

Create instant reports directly in camera, easily copy report to USB.



Multi Spectral Dynamic Imaging (MSX®)

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



Compass

The direction in which the camera is looking is automatically added to every image.

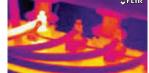
*Features dependant on camera model, please check technical specifications for more details.



Connect to smartphone or tablet via Wi-Fi, using the FLIR Tools mobile app (Apple iOS and Android) for processing and sharing results as well as for remote control.

Thermal Fusion





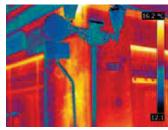
Thermal Fusion image



FLIR T400-Series camera model comparison



Multi Spectral Dynamic Imaging (MSX®)





MSX® allows seeing even more detail on the thermal image.

Image sketch



Multifunctional LCD touch screen allows sketching and marking directly on the

Picture-in-Picture



MeterLink





FLIRT400-Series

Technical specifications

Camera specific





	FLIR T420	FLIR T440
Imaging performance		
Zoom	2x, 4x digital zoom	2x, 4x, 8x digital zoom
Measurement		
Object temperature range	-20°C to +650°C in 2 ranges: -20°C to +120°C or 0°C to +650°C	-20°C to +1200°C in 3 ranges: -20°C to +120°C or 0°C to +650°C +250°C to +1200°C
Image presentation		
MSX®	IR image with MSX®	IR image with MSX®
Image sketch	N/A	On IR and visual image
Measurement analysis		
Profile	N/A	1 live line
Measurement presets	N/A	Yes

Imaging Performance	General	
IR resolution 320 × 240 pixels Field of view (FOV) / Minimum focus distance 25° x 19° / 0.4 m Spectral range 7.5 - 13 µ m Spatial resolution (IFOV) 1.39 mrad Image frequency 60 Hz Focus Automatic (one shot) or manual Focal Plane Array (FPA) Uncooled microbolometer Image presentation Ficture in Picture Resizable and movable IR area on visual image Display Built-in touch screen, 3.5° color LCD, 320 x 240 pixels Image modes IR image, visual image, thermal fusion, picture in picture, thumbnail gallery Thermal fusion IR image, visual image, thermal fusion, picture in picture, thumbnail gallery Thermal fusion IR image shown above, below or within temp interval on visual image Measurement Accuracy ±2°C or ±2% of reading Measurement analysis Difference temperature Delta temperature between measurement functions or reference temperature Spotmeter 5 boxes with max/min/average Isotherm Detect high/low temperature/einterval Automatic hot / cold detection Auto hot or cold spotmeter markers within area Measurement function alarm Audible/visual alarms (above/below) on any selected measurement function Emissivity correction Variable from 0.01 to 1.0 or selected from list of materials Measurement corrections Reflected temperature, optics transmission and temperature Setup Color palettes Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC Set-up commands Storage of images Image storage Male Audis Images, simultaneous storage of IR and visual images Feriodic images Storage 7 seconds to 24 hours (IR)	Imaging Performance	
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Spectral range 7.5 - 13 µm	IR resolution	320 × 240 pixels
Spatial resolution (IFOV) 1.39 mrad Image frequency 60 Hz Focus Automatic (one shot) or manual Focal Plane Array (FPA) Uncooled microbolometer	Field of view (FOV) / Minimum focus distance	25° × 19° / 0.4 m
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Image presentation	Image frequency	60 Hz
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Image ennotations	
Image annotations Voice	60 seconds (via Bluetooth)
Text	Text from predefined list or soft keyboard on touch screen
MeterLink	Connect Extech Clamp Meter EX845 or Moisture Meter M0297 via Bluetooth
Sketch	From touch screen
Report generation	- Instant Report (.pdf file) in camera including IR and visual images - Separate PC software with extensive report generation
Compass	Camera direction automatically added to every image
Digital camera	
Built-in digital camera	3.1 Mpixel (2048 × 1536 pixels), and LED light
Digital camera, FOV match	Adapts to the IR lens
Laser Pointer	
Laser	Semiconductor AlGaInP diode laser, Class 2, activated by dedicated button
Laser alignment	Position is displayed automatically on the IR image
Video streaming	.,,
Non-radiometric IR or visual video recording	MPEG4 to memory card
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR or visual video streaming	Uncompressed colorized video using USB
	Choomprossed colonized video doling con
Power System	
Battery time	Rechargeable Lithium-ion battery, field replaceable
Battery operating time	4 hours
Charging system	In camera, AC adaptor, 2-bay charger or 12 V from a vehicle
Power management	Automatic shutdown and sleep mode (user selectable)
Environmental specifications	
Operating temperature range	-15 °C to +50 °C
Storage temperature range	-40 °C to +70 °C
Humidity (operating and storage) EMC	IEC 60068-2-30/24 h 95% relative humidity +25 °C to +40 °C / 2 cycles - 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
Bump	25 g (IEC 60068-2-29)
Vibration	2 q (IEC 60068-2-6)
Encapsulation	IP 54 (IEC 60529)
Safety	EN/UL/CSA/PSE 60950-1
Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, composite video
USB	USB-A: Connect external USB device (copy to memory stick) USB Mini-B: Data transfer to and from PC/streaming
Bluetooth	Communication with headset and external sensors
Wi-Fi	Connects directly to smart phones or tablet PCs for image transfer or via local network
Radio	
Wi-Fi	Standard: 802.11 b/g Frequency range: 2412-2462 MHz Max output power: 15 dBm
Bluetooth	Frequency range: 2402-2480 MHz
Physical characteristics	
Camera weight, incl. battery	0.88 kg
Camera size (L × W × H)	106 × 201 × 125 mm
Shipping size	180 x 500 x 360 mm
Shipping weight	5.6 kg
Tripod	UNC 1/4" - 20 (adapter needed)

Standard package
FLIR T420 or T440: Hard transport case, Thermal imaging camera with lens, Battery (2 ea.), Battery charger, Lens cap, Printed documentation, FLIR Tools™ download card, Headset, Memory card, Power supply incl. multi-plugs, Sunshield, Neckstrap, USB cable, User documentation CD-ROM, Video cable







FLIRT400-Series



Accessories

Power



Battery [1196398]

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



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

[T197650]

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



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.



Power supply incl. Multi-plugs

[T910750]

Combined power supply, including multi plugs and battery charger to charge the battery when it is inside or outside of the camera.



Battery package

[T197667]

A complete battery package consisting of three standard products: a battery, 2-bay battery charger including power supply with multi-plugs and a cigarette lighter adaptor kit.

Storage



Memory card SD

[T911173]

Capture images on the go with your camera.



Adaptor, SD memory card to USB

[1910475]

Allows to transfer the images from the SD card to a PC.

Cables



Video cable

[1910582]

This cable can be used to transfer the images of the T/B-Series thermal imaging cameras to a monitor.



USB cable Std-A <-> Mini-B

[1910423]

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

Extended measurement ranges

High temperature option to +1,200°C

[T197000]

Allow to measure temperatures of up to +1,200°C with the camera.

Headsets



Bluetooth® headset

[T197771]

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

Lenses



Lens 4 mm, 90° field of view, incl. case and mounting support

[T197412]

Sometimes there isn't enough room to step back and see the whole picture. This wide angle lens has a field of view almost four times the one of the standard 25° lens. This wide angle lens is perfect for wide or tall targets such as electrical panels or paper machinery.



Lens 10 mm, 45° field of view incl. case

[1196960]

Sometimes there isn't enough room to step back and see the whole picture. This wide angle lens has a field of view almost double than the one of the standard 25° lens. Perfect for wide or tall targets such as electrical panels or paper machinery.



Lens 30 mm, 15° field of view, incl. case

When the target in question is a distance away it may be useful to use a telescope lens. The 15° lens is a popular lens accessory and provides almost 2X magnification compared to the 25° lens. Ideal for small or distant targets such as overhead power lines.



Lens 76 mm, 6° field of view, incl. case and mounting support

[T197408]

For maximum magnification, the 6° lens is the only choice. This optic provides almost 3.5X magnification compared to the 25° lens and is ideally suited for inspection of overhead power lines. Due to the weight of this lens, a tripod is recommended.



Close-up lens 4x incl. case

[T197215]

The close-up lens provides a 4X magnification and is ideal for development purposes like looking at PCB's or small electronic components.



Close-up lens 2x incl. case

[T197214]

The close-up lens provides a 2X magnification and is ideal for development purposes like looking at PCB's or small electronic components.

Miscellaneous



Hard transport case

[T198370]

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



Neck strap

[1124544]

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



[T911048]

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



Sun shield

[T911093]

Tool belt for thermal imaging camera pouches.



[1123970]

Snap-on sunshield to increase visibility of the LCD display.



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™