



Connect to smartphone or tablet via Wi-Fi, use the FLIRViewer App (Apple) or FLIR Tools mobile (Android) for processing and sharing results



FLIR T640 / FLIR T620 model comparison

FLIR T620

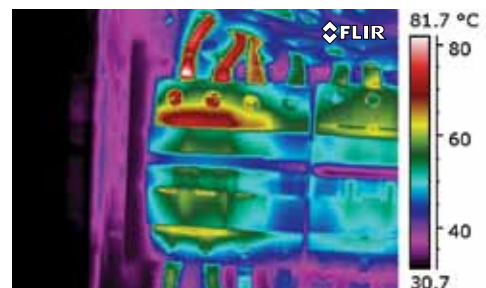


Thermal sensitivity: 50 mk
LCD display only
Measures temperatures up to +650°C
1-4x continuous, digital zoom

FLIR T640



Thermal sensitivity: 40 mk
Viewfinder and LCD display
Measures temperatures up to +2,000°C
1-8x continuous, digital zoom
Line profile function
Measurement presets



Overheated connection.

FLIR T620 - FLIR T640

Technical specifications

Camera specific



	FLIR T620	FLIR T640
Imaging performance		
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	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
Spatial resolution	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)	50 mK @ 30 °C	40 mK @ 30 °C
Digital zoom	Direct access, 1-4x continuous	Direct access, 1-8x continuous
Image presentation		
Viewfinder	N/A	800x480 pixels
Measurement		
Temperature range, standard	-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	
Measurement analysis		
Line profile function	N/A	Live profile, H/V-direction
Measurement presets	N/A	Add preset measurement set up by the press of one button

General

Imaging performance	
Resolution	640x480 pixels
Focal Plane array (FPA)	Uncooled microbolometer 640x480 pixels, latest generation with 17 µm pitch
Spectral range	7.8 to 14 µm
Image frequency	30 Hz
Focus	Manual / autofocus
Image presentation	
Display	4.3" superbright touchscreen LCD 800x480 pixels
Image modes	IR-image with selected color scale, Full color visual, Picture in Picture (Resizable and movable IR-area), Thermal Fusion (Threshold above, below and interval), thumbnail gallery
Manual image adjustments	Level/span/max/min
Automatic image adjustments, continuous or manual activation	Standard or based on histogram from image content
Automatic image adjustment with locked scale	Lock max, min or span
Measurement	
Accuracy	± 2 °C or ± 2% of reading



* After product registration on www.flir.com

General

Measurement analysis	
Spotmeter	10
Area	5 Max/Min/Average value within box or circle
Automatic hot/cold detection	Max/Min temp. value and position shown within box, circle or on a line
Isotherm	Detect high/low temperature/interval
Difference temperature	Difference between any two measurement functions or any measurement function and a reference temperature
Reference temperature function	Manually set
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
External windows correction	Automatic based on inputs of window temperature and transmission
Set-up	
Image controls	Palettes (Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC), image adjustment (auto/manual)
Set-up controls	Local adaptation of units, language, date and time formats; automatic shutdown, display intensity
Configure information to be shown in image	✓
Programmable button	✓
Image storage	
Type	IR/visual images; simultaneous storage of visual and IR images
Format	Standard JPEG - including measurement data on SD memory card
Digital camera	
Built-in digital camera	5 Mpixel incl. lamps
Laser LocatIR	
Laser	Semiconductor AlGaInP diode laser, Class 2 - position is displayed on the IR image
Laser alignment	Laser position shown on IR-image
Image annotation	
Voice	60 seconds via Bluetooth®
Text	Text from predefined list or soft keyboard on touch screen
Sketch	A sketch drawn on touch screen is automatically saved with image
Meterlink	Wireless connection to: Extech Moisture meter MO297 or Extech clamp meter EX845
Report generation	
Instant Report in camera	Automatic generation of PDF report based on selected images direct in camera
Video streaming /recording	
Radiometric IR video streaming	Full dynamic to PC using USB
Non radiometric IR-video streaming	MPEG 4 streaming to PC using USB
Video recording in camera	Non-radiometric IR video/visual video, MPEG4 to SD-card.
WiFi	Wireless streaming of non-radiometric IR-video, MPEG4
Update of camera	
Automatic update of camera to latest version	Automatic update of camera from PC running FLIR Tools
Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth®, WiFi, DVI video
USB	USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4
WiFi	Connects directly to Ipad/Iphone for image transfer or via local network
Power	
Battery type	Lithium-Ion (field replaceable)
Battery operating time	> 2.5 hours at 25°
Charging system	In camera, AC adaptor, 2-bay charger or 12 V from a vehicle
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adaptor, 90-260 V AC, 50/60 Hz
Adaptor voltage	12 Volt VDC out
Environmental specifications	
Operating temperature range	-15 to +50 °C
Storage temperature range	-40 °C to +70 °C
Humidity, operating and storage, non-condensing	IEC 60068-2-30 /24 h, 95% relative humidity +25 °C to +40 °C
Encapsulation	IP 54, IEC 60529
Bump, Operational	25G, IEC 60068-2-29
Vibration, Operational	2G, IEC 60068-2-6
EMC, emission	EN 61000-6-3
EMC, immunity	EN 61000-6-2
Physical characteristics	
Camera weight incl. battery	1.3 kg
Camera size (L x W x H)	143 x 195 x 95 mm
Tripod Mounting	1/4" - 20
Lenses optional	
Tele lens, 15°	15° x 11° / 0.9 m
Wide angle lens 45°	45° x 34° / 0.1 m
Standard package	
FLIR T620 / T640: Hard transport case, thermal imaging camera with lens, Battery (2), Battery charger, Large eyecap, Tripod adaptor, Neck strap, Lens cap, Bluetooth® headset, Calibration certificate, FLIR Tools™ PC software CD-ROM, Memory card with adaptor, Power supply incl. multiplugs, Printed Getting Started Guide, Printed Important Information Guide, USB cable, User documentation CD-ROM, HDMI cable (2), Warranty extension card or Registration card	



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