# FLIR T640bx / FLIR T620bx

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

The FLIR T640bx / FLIR T620bx offer a crisp thermal image of 640 x 480 pixels on which the smallest of details can be seen. An intuitive user interface supported by state-of-theart touch-screen technology make the FLIR T640bx /FLIR T620bx extremely easy to use.



#### 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.



#### Picture-in-picture

Create an infrared overlay on your visual image. Adapts automatically to different lenses with different field of view. Moveable and resizable depending on camera model.



#### **High sensitivity**

The T640bx allows you to see temperature differences as small as 0.04°C.



#### **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 T640bx/T620bx is very easy to use.



#### 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.



#### **Sketch annotations**

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



#### Large bright 4.3 inch LCD screen

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



#### **Text and voice annotations**

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



#### Viewfinder (FLIR T640bx)

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



#### Digital zoom

The FLIR T640bx is equipped with a 1-8x continuous digital zoom and the T620bx with a 1-4x zoom.



#### High quality visual camera

**Automatic- and manual focus** 

An integrated 5 megapixel visual camera generates crisp visual images in all conditions.

The FLIR T640bx/FLIR T620bx have a manual focus

on the lens as well as a quick one shot autofocus.



#### **Humidity Alarm/Insulation Alarm**

The Relative Humidity Alarm alerts you to the areas where there is a risk of condensation. An Insulation Alarm shows the insulation performance of the building structure. By inputting relevant values into the camera the areas that fail to fulfill requirements will appear as colored.



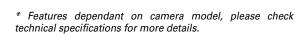
#### Laser Pointer

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



#### **FLIR Thermal Fusion**

Merges visual and thermal images for better analysis.





#### 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 R&D software.



#### MPEG-4 video

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



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





## FLIR T640bx / FLIR T620bx Model Comparison





**FLIR Thermal Fusion** Merges visual and thermal images for better analysis.



# FLIR T620bx / FLIR T640bx

## Technical specifications

### Camera specific





	FLIR T620bx	FLIR T640bx
Imaging performance		
Field of View (FOV) / minimum focus distance	25° x 19° / 0.25 m	25° x 19° / 0.25 m
	15° x 11° / 0.5 m	15° x 11° / 0.5 m
	45° x 34° / 0.15 m	45° x 34° / 0.15 m
	lens needs to be specified when ordering	lens needs to be specified when ordering
Spatial resolution	0.68 mrad for 25° lens	0.68 mrad for 25° lens
	0.41 mrad for 15° lens	0.41 mrad for 15° lens
	1.23 mrad for 45° 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 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

In a strong and a second	
Imaging performance	
Resolution	640x480 pixels
Focal Plane array (FPA)	Uncooled microbolometer
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	Standard or based on histogram from image content
activation	
Automatic image adjustment with locked scale	Lock max, min or span







#### General

General	
Measurement	
Accuracy	± 2 °C or ± 2% of reading
Temperature range, standard	-40 °C to +150 °C, +100 °C to +650 °C
Temperature range, optional	+300 °C to +2,000 °C
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
Humidity alarm	1 humidity alarm including dew point alarm
Insulation alarm	1 insulation alarm
Difference temperature	Difference between any two measurement functions or any measurement function and a reference
Reference temperature function	temperature 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	<b>√</b>
_ v	
Image storage Type	IR/visual images; simultaneous storage of visual and IR images
Format	Standard JPEG - including measurement data on SD memory card
	Standard of 20 mordaling invador official data on op mornory data
Digital camera Digital	5 Mpixel incl. lamps
	3 Mpixer Hict. Idilips
Laser LocatiR	Continued active AIO-II-D-Barda Issue Office Control of the International
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® stored with the image
Text	Text from predefined list or soft keyboard on touch screen
Sketch Meterlink	A sketch drawn on touch screen is automatically saved with image Wireless connection to: Extech Moisture meter M0297 or Extech clamp meter EX845
	Wheless connection to. Extect Moisture meter Mo237 of Extect Clamp meter Ex045
Report generation	A tour discounting of DDF and the color of the tribing of the color of
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
Radiometric IR video streaming Non radiometric IR-video streaming	MPEG 4 streaming to PC using USB
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card.
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi	MPEG 4 streaming to PC using USB
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi Update of camera	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card.
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version Data communication interfaces	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Bluetooth®	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Bluetooth® USB	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Bluetooth® USB WiFi	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Bluetooth® USB WiFi  Power	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Interfaces USB WiFi  Power Battery type	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-Ion (field replaceable)
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Bluetooth® USB WiFi  Power Battery type Battery operating time	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-lon (field replaceable) > 3 hours at 25°
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Interfaces USB WiFi  Power Battery type	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-Ion (field replaceable)
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Bluetooth® USB WiFi  Power Battery type Battery type Battery operating time Charging system Power management AC operation	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-Ion (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Bluetooth® USB WiFi  Power Battery type Battery operating time Charging system Power management	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-lon (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable)
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Bluetooth® USB WiFi  Power Battery type Battery type Battery operating time Charging system Power management AC operation	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-Ion (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable) AC adaptor, 90-260 V AC, 50/60 Hz
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Bluetooth® USB WiFi  Power Battery type Battery operating time Charging system Power management AC operation Adaptor voltage	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-Ion (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable) AC adaptor, 90-260 V AC, 50/60 Hz
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Interfaces USB WiFi  Power Battery type Battery type Battery operating time Charging system Power management AC operation Adaptor voltage  Environmental specifications Operating temperature range Storage temperature range	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-Ion (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable) AC adaptor, 90-260 V AC, 50/60 Hz 12 Volt VDC out  -15 to +50 °C -40 °C to +70 °C
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Bluetooth® USB WiFi  Power Battery type Battery type Battery operating time Charging system Power management AC operation Adaptor voltage  Environmental specifications Operating temperature range Storage temperature range Humidity, operating and storage, non-condensing	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-lon (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable) AC adaptor, 90-260 V AC, 50/60 Hz 12 Volt VDC out  -15 to +50 °C -40 °C to +70 °C IEC 60068-2-30/24h, 95% relative humidity +25 °C to +40 °C
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Bluetooth® USB WiFi  Power Battery type Battery type Battery operating time Charging system Power management AC operation Adaptor voltage  Environmental specifications Operating temperature range Storage temperature range Humidity, operating and storage, non-condensing Encapsulation	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-lon (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable) AC adaptor, 90-260 V AC, 50/60 Hz 12 Volt VDC out  -15 to +50 °C -40 °C to +70 °C IEC 60068-2-30/24h, 95% relative humidity +25 °C to +40 °C IP 54, IEC 60529
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Bluetooth® USB WiFi  Power Battery type Battery type Battery operating time Charging system Power management AC operation Adaptor voltage  Environmental specifications Operating temperature range Storage temperature range Humidity, operating and storage, non-condensing Encapsulation Bump, Operational	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-Ion (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable) AC adaptor, 90-260 V AC, 50/60 Hz 12 Volt VDC out  -15 to +50 °C -40 °C to +70 °C IEC 60068-2-30/24h, 95% relative humidity +25 °C to +40 °C IP 54, IEC 600529 25G, IEC 60068-2-29
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Interfaces Bluetooth® USB WiFi  Power Battery type Battery type Battery operating time Charging system Power management AC operation Adaptor voltage  Environmental specifications Operating temperature range Storage temperature range Humidity, operating and storage, non-condensing Encapsulation Bump, Operational Vibration, Operational	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-Ion (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable) AC adaptor, 90-260 V AC, 50/60 Hz 12 Volt VDC out  -15 to +50 °C -40 °C to +70 °C IEC 60068-2-30/24h, 95% relative humidity +25 °C to +40 °C IP 54, IEC 60529 25G, IEC 60068-2-29 26, IEC 60068-2-6
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Interfaces Bluetooth® USB WiFi  Power Battery type Battery type Battery operating time Charging system Power management AC operation Adaptor voltage  Environmental specifications Operating temperature range Storage temperature range Humidity, operating and storage, non-condensing Encapsulation Bump, Operational Vibration, Operational EMC, emission	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-lon (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable) AC adaptor, 90-260 V AC, 50/60 Hz 12 Volt VDC out  -15 to +50 °C -40 °C to +70 °C IEC 60068-2-30/24h, 95% relative humidity +25 °C to +40 °C IP 54, IEC 60529 25G, IEC 60068-2-9 26, IEC 60068-2-9 26, IEC 60068-2-6 EN 61000-6-3
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Interfaces Bluetooth® USB WiFi  Power Battery type Battery type Battery operating time Charging system Power management AC operation Adaptor voltage  Environmental specifications Operating temperature range Storage temperature range Humidity, operating and storage, non-condensing Encapsulation Bump, Operational Vibration, Operational EMC, emission EMC, immunity	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-Ion (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable) AC adaptor, 90-260 V AC, 50/60 Hz 12 Volt VDC out  -15 to +50 °C -40 °C to +70 °C IEC 60068-2-30/24h, 95% relative humidity +25 °C to +40 °C IP 54, IEC 60529 25G, IEC 60068-2-29 26, IEC 60068-2-6
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Interfaces Bluetooth® USB WiFi  Power Battery type Battery type Battery operating time Charging system Power management AC operation Adaptor voltage  Environmental specifications Operating temperature range Storage temperature range Humidity, operating and storage, non-condensing Encapsulation Bump, Operational Vibration, Operational EMC, emission EMC, immunity Physical characteristics	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-lon (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable) AC adaptor, 90-260 V AC, 50/60 Hz 12 Volt VDC out  -15 to +50 °C -40 °C to +70 °C IEC 60068-2-30/24h, 95% relative humidity +25 °C to +40 °C IP 54, IEC 60529 256, IEC 60068-2-29 256, IEC 60068-2-6 EN 61000-6-3 EN 61000-6-2
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Interfaces Sussemment USB WiFi  Power Battery type Battery type Battery operating time Charging system Power management AC operation Adaptor voltage  Environmental specifications Operating temperature range Storage temperature range Humidity, operating and storage, non-condensing Encapsulation Bump, Operational Vibration, Operational EMC, emission EMC, immunity  Physical characteristics Camera weight incl. battery	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-lon (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable) AC adaptor, 90-260 V AC, 50/60 Hz 12 Volt VDC out  -15 to +50 °C -40 °C to +70 °C IEC 60068-2-30/24h, 95% relative humidity +25 °C to +40 °C IP 54, IEC 60529 256, IEC 60068-2-29 26, IEC 60068-2-29 26, IEC 60068-2-29 276, IEC 60068-2-29 276, IEC 60068-2-29 286, IEC 60068-2-29 286, IEC 60068-2-29 286, IEC 60068-2-29 287, IEC 60068-2-29 288, IEC 60068-2-29 288, IEC 60068-2-29 289, IEC 60068-2-29 290, IEC 60068-2-29 291, IEC 60068-2-29 291, IEC 60068-2-29 292, IEC 60068-2-29 293, IEC 60068-2-29 294, IEC 60068-2-29 294, IEC 60068-2-29 295, IEC 60068-2-29 205, IEC 60068-2-29 206, IEC 60068-2-29
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Interfaces Bluetooth® USB WiFi  Power Battery type Battery type Battery operating time Charging system Power management AC operation Adaptor voltage  Environmental specifications Operating temperature range Storage temperature range Humidity, operating and storage, non-condensing Encapsulation Bump, Operational Vibration, Operational EMC, emission EMC, immunity  Physical characteristics Camera weight incl. battery Camera size (L x W x H)	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-Ion (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable) AC adaptor, 90-260 V AC, 50/60 Hz 12 Volt VDC out  -15 to +50 °C -40 °C to +70 °C IEC 60068-2-30/24h, 95% relative humidity +25 °C to +40 °C IP 54, IEC 60529 256, IEC 60068-2-6 EN 61000-6-3 EN 61000-6-3 EN 61000-6-2
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Interfaces Illuetooth® USB WiFi  Power Battery type Battery type Battery operating time Charging system Power management AC operation Adaptor voltage  Environmental specifications Operating temperature range Storage temperature range Humidity, operating and storage, non-condensing Encapsulation Bump, Operational Vibration, Operational EMC, emission EMC, immunity  Physical characteristics Camera weight incl. battery Camera size (L x W x H) Tripod Mounting	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-lon (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable) AC adaptor, 90-260 V AC, 50/60 Hz 12 Volt VDC out  -15 to +50 °C -40 °C to +70 °C IEC 60068-2-30/24h, 95% relative humidity +25 °C to +40 °C IP 54, IEC 60529 256, IEC 60068-2-29 26, IEC 60068-2-29 26, IEC 60068-2-29 276, IEC 60068-2-29 276, IEC 60068-2-29 286, IEC 60068-2-29 286, IEC 60068-2-29 286, IEC 60068-2-29 287, IEC 60068-2-29 288, IEC 60068-2-29 288, IEC 60068-2-29 289, IEC 60068-2-29 290, IEC 60068-2-29 291, IEC 60068-2-29 291, IEC 60068-2-29 292, IEC 60068-2-29 293, IEC 60068-2-29 294, IEC 60068-2-29 294, IEC 60068-2-29 295, IEC 60068-2-29 205, IEC 60068-2-29 206, IEC 60068-2-29
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Interfaces Bluetooth® USB WiFi  Power Battery type Battery type Battery operating time Charging system Power management AC operation Adaptor voltage  Environmental specifications Operating temperature range Storage temperature range Humidity, operating and storage, non-condensing Encapsulation Bump, Operational Vibration, Operational EMC, emission EMC, immunity  Physical characteristics Camera weight incl. battery Camera size (L x W x H) Tripod Mounting Lenses optional	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-lon (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable) AC adaptor, 90-260 V AC, 50/60 Hz 12 Volt VDC out  -15 to +50 °C -40 °C to +70 °C IEC 60068-2-30/24h, 95% relative humidity +25 °C to +40 °C IP 54, IEC 60529 256, IEC 60068-2-29 26, IEC 60068-2-29 26, IEC 60068-2-6 EN 61000-6-2  1.3 kg 143 x 195 x 95 mm 1/4" - 20
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Bluetooth® USB WiFi  Power Battery type Battery type Battery operating time Charging system Power management AC operation Adaptor voltage  Environmental specifications Operating temperature range Storage temperature range Humidity, operating and storage, non-condensing Encapsulation Bump, Operational Vibration, Operational EMC, emission EMC, immunity  Physical characteristics Camera weight incl. battery Camera size (L x W x H) Tripod Mounting  Lenses optional Tele lens, 15°	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-Ion (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable) AC adaptor, 90-260 V AC, 50/60 Hz 12 Volt VDC out  -15 to +50 °C -40 °C to +70 °C IEC 60068-2-30/24h, 95% relative humidity +25 °C to +40 °C IP 54, IEC 60529 25G, IEC 60068-2-29 26, IEC 60068-2-29 26, IEC 60068-2-6 EN 61000-6-3 EN 61000-6-3 EN 61000-6-2
Radiometric IR video streaming Non radiometric IR-video streaming Video recording in camera WiFi  Update of camera Automatic update of camera to latest version  Data communication interfaces Interfaces Interfaces Bluetooth® USB WiFi  Power Battery type Battery type Battery operating time Charging system Power management AC operation Adaptor voltage  Environmental specifications Operating temperature range Storage temperature range Humidity, operating and storage, non-condensing Encapsulation Bump, Operational Vibration, Operational EMC, emission EMC, immunity  Physical characteristics Camera weight incl. battery Camera size (L x W x H) Tripod Mounting Lenses optional	MPEG 4 streaming to PC using USB Non-radiometric IR video/visual video, MPEG4 to SD-card. Wireless streaming of non-radiometric IR-video , MPEG4  Automatic update of camera from PC running FLIR Tools  USB-mini, USB-A, Bluetooth®, WiFi, DVI video Communication with smart phone, PC tablet, headset and external sensors USB-A: Connect external USB device - USB-mini-B: Data transfer to and from PC / Streaming MPEG 4 Connects directly to Ipad/Iphone for image transfer or via local network  Lithium-lon (field replaceable) > 3 hours at 25° In camera, AC adaptor, 2-bay charger or 12 V from a vehicle Automatic shutdown and sleep mode (user selectable) AC adaptor, 90-260 V AC, 50/60 Hz 12 Volt VDC out  -15 to +50 °C -40 °C to +70 °C IEC 60068-2-30/24h, 95% relative humidity +25 °C to +40 °C IP 54, IEC 60529 256, IEC 60068-2-29 26, IEC 60068-2-29 26, IEC 60068-2-6 EN 61000-6-2  1.3 kg 143 x 195 x 95 mm 1/4" - 20

Standard package
FLIR T620bx / T640bx: Hard transport case, thermal imaging camera with lens, Battery (2), Battery charger, Large eyecap, Tripod adaptor, Neck strap, Lens cap, Bluetooth®

