

# T-Series Specifications



T335



T365



T425

Imaging performance			
Thermal sensitivity/NETD	50 mK at 30°C	50 mK at 30°C	50 mK at 30°C
IR resolution	320 × 240 pixels	320 × 240 pixels	320 × 240 pixels
Zoom	1-2× continuous, digital zoom, including panning	1-4× continuous, digital zoom, including panning	1-8× continuous, digital zoom, including panning
Image presentation			
Image modes	General	General + Thermal Fusion	General + Thermal Fusion
Thermal Fusion	N/A	IR image shown within temp interval on visual image	IR image shown above, below or within temp interval on visual image
Picture in Picture	Scalable IR area on visual image	Resizable and movable IR area on visual image	Resizable and movable IR area on visual image
Measurement			
Object temperature range	-20 °C to +650 °C in 3 ranges: -20°C to +120°C or 0°C to +350°C or +200 degC to +650 degC	-20 °C to +650 °C in 3 ranges: -20°C to +120°C or 0°C to +350°C or +200°C to +650°C	-20 °C to +1200 °C in 3 ranges: -20°C to +120°C or 0°C to +350°C or +200°C to +1200°C
Measurement analysis			
Difference temperature	N/A	Delta temperature between measurement functions or reference temperature	Delta temperature between measurement functions or reference temperature
Measurement function alarm	N/A	Audible/visual alarm (above/below) on spotmeter, box or difference temperature	Audible/visual alarm (above/below) on spotmeter, box or difference temperature
Set-up			
Color palettes	BW, BW inv, Iron, Rain	BW, BW inv, Iron, Rain	BW, BW inv, Iron, Rain, RainHC, Bluered
Image storage			
Periodic image storage	N/A	N/A	Every 10 seconds up to 24 hours
Image annotations			
Voice	60 seconds	60 seconds	60 seconds via Bluetooth®
Image marker	N/A	4 on IR or visual image	4 on IR or visual image
Sketch	N/A	From touch-screen	From touch-screen
Video recording in camera and streaming to PC			
Radiometric IR-video streaming	Full dynamic to PC using USB	Full dynamic to PC using USB	Full dynamic to PC using USB
Non-radiometric IR-video streaming	MPEG-4 to PC using USB	MPEG-4 to PC using USB	MPEG-4 to PC using USB
Digital camera			
Digital camera video recording	N/A	N/A	Video clip to memory card
Report generation			
Instant report	N/A	.pdf file in camera including thermal and visual image	.pdf file in camera including thermal and visual image
Imaging performance General			
Field of view (FOV)/Minimum focus	25° × 19° / 0.4 m		
Spectral range	7.5 - 13 μm		
Spatial resolution (IFOV)	1.36 mrad for T335, T365, T425		
Image frequency	9 Hz or 30 Hz		
Focus	Automatic or manual		
Focal Plane Array (FPA)	Uncooled microbolometer		
Image presentation General			
Display	Built-in touch-screen, 3.5" color LCD, 320 x 240 pixels		
Image modes	IR image, Visual image, Picture in Picture, Thumbnail gallery		
Measurement General			
Accuracy	±2°C or 2% of reading		
Measurement analysis General			
Spotmeter	5		
Area	5 boxes with max./min./average		
Isotherm	Detect high/low temperature/interval		
Automatic hot/ cold detection	Auto hot or cold spotmeter markers within area		
Emissivity correction	Variable from 0.01 to 1.0 or selected from list of materials		
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission		
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature		
Set-up General			
Color palettes	BW, BW inv, Iron, Rain, T425: Rain HC, Bluered		
Set-up controls	Local adaptation of units, language, date and time formats; automatic shutdown, display intensity		



T335



T365



T425

<b>Image storage General</b>	
Type	SD memory card
Format	Standard JPEG - including measurement data
Modes	IR/visual images, simultaneous storage of IR and visual images
<b>Image annotations General</b>	
Text	Text from predefined list or soft keyboard on touch-screen
MeterLink	Connect Extech Clamp Meter EX845 or Moisture Meter MO297 via Bluetooth
<b>Digital camera General</b>	
Built-in digital camera	3.1 Mpixel (2048 × 1536 pixels), and LED lights
<b>Laser Pointer General</b>	
Laser	Semiconductor AlGaInP diode laser, Class 2
Laser alignment	Position is displayed automatically on the IR image
<b>Power System General</b>	
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 (user selectable)
AC operation	AC adaptor, 100–240 V AC, 50/60 Hz
Adaptor voltage	12 Volt VDC out
<b>Environmental specifications General</b>	
Operating temperature range	-15 °C to +50 °C
Storage temperature range	-40 °C to +70 °C
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25 °C to +40 °C
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Encapsulation	Camera housing and lens: IP 54 (IEC 60529)
<b>Interfaces General</b>	
USB-A	Connect external USB device (copy to memory stick)
USB Mini-B	Data transfer to and from PC/streaming
Composite video	PAL or NTSC
Headset connection	Yes
Bluetooth	Communications with headset and external sensors.
<b>Physical characteristics General</b>	
Camera weight, incl. battery	0.88 kg
Camera size (L × W × H)	106 × 201 × 125 mm
Shipping size	180 × 500 × 360 mm
Shipping weight	5.6 kg
<b>Standard package General</b>	

FLIR T335, FLIR T365 or FLIR T425: Hard transport case, Infrared camera with lens, Battery, Battery charger, Bluetooth® USB micro adaptor, Calibration certificate, FLIR QuickReport™ PC software CD-ROM, Headset, Mains cable, Memory card with adaptor, Power supply, Printed Getting Started Guide, Sunshield, USB cable, User documentation CD-ROM, Video cable, Warranty extension card or Registration card

