

# **FLIR T530 24°**

### P/N: 79302-0101

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Imaging and optical data			
••• ·	000 010 simila		
Infrared resolution	320 × 240 pixels		
UltraMax (super-resolution) <sup>1</sup>	Yes		
NETD	<40 mK @ 30°C (86°F)		
Field of view	24° × 18°		
Minimum focus distance	<ul> <li>0.15 m (0.49 ft)</li> <li>Macro mode 103 μm as option</li> </ul>		
Minimum focus distance with MSX	0.5 m (1.64 ft)		
Focal length	17 mm (0.67 in)		
Spatial resolution (IFOV)	1.31 mrad/pixel		
Available extra lenses	<ul> <li>42° (AutoCal)</li> <li>14° (AutoCal)</li> <li>6° (service calibration required)</li> </ul>		
Lens identification	Automatic		
f number	1.3 30 Hz		
Image frequency			
Focus	<ul> <li>Continuous LDM</li> <li>One-shot LDM</li> <li>One-shot contrast</li> <li>Manual</li> </ul>		
Field of view match	Yes		
Digital zoom	1-4× continuous		
Detector data			
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 µm		
Detector pitch	17 μm		

1. Not supported when using macro.

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Resolution       640 × 480 pixels (VGA)         Surface brightness (cd/m²)       400         Screen size       4 in         Viewing angle       80°         Color depth (bits)       24         Aspect ratio       4.3         Auto-rotation       Yes         Touchscreen       Optically bonded PCAP         Display technology       IPS         Cover glass material       Dragontrail®         Programmable buttons       2         Viewfinder       No         Image adjustment       • Automatic maximum • Automatic minimum • Manual         Image presentation modes       Infrared image         Infrared image       Yes         Picture in picture       Resizable and movable         Gallery       Yes         Measurement       • -20 to 120°C (-4 to 248°F); • 0 to 650°C (32 to 1202°F), ±2°C (±3.6°F) • 100 to 150°C (72 to 2192°F), ±2°C (±3.6°F) • 100 to 150°C (72 to 2192°F), ±2°C (±3.6°F) • 100 to 150°C (21 to 1202°F), ±2°C (±3.6°F) • 100 to 650°C (21 to 1202°F), ±2°C (±3.6°F) • 100 to 650°C (21 to 1202°F), ±2°C (±3.6°F) • 100 to 150°C (21 to 1202°F), ±2°C (±3.6°F) • 100 to 150°C (21 to 1202°F), ±2°C (±3.6°F) • 100 to 650°C (21 to 1202°F), ±2°C (±3.6°F) • 100 to 150°C (21 to 1202°F), ±2°C (±3.6°F) • 100 to 150°C (21 to 1202°F), ±2°C (±3.6°F)	Image presentation	
Screen size       4 in         Viewing angle       80°         Color depth (bits)       24         Aspect ratio       4:3         Auto-rotation       Yes         Touchscreen       Optically bonded PCAP         Display technology       IPS         Cover glass material       Dragontrail@         Programmable buttons       2         Viewfinder       No         Image adjustment       - Automatic maximum         - Automatic maximum       - Automatic maximum         - Automatic maximum       - Manual         Image presentation modes       Infrared image         Infrared image       Yes         MSX       Yes         MEasurement       -20 to 120°C (-4 to 248°F)         Camera temperature range       -20 to 120°C (-4 to 248°F)         Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       - Range -20 to 120°C (-4 to 248°F)         0 to 650°C (32 to 1202°F)       - 0 to 100°C (-4 to 248°F)       -20 to 100°C (-4 to 212°F)         Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       - Range -20 to 120°C (-4 to 212°F)       -2°C (12 to 248°F)         0 to 100°C (-2 to 212°F)       -2°C (12 to 248°F)       -2°C (12 to 1202°F)       -2°C (12 to 1202°F) <td>Resolution</td> <td>640 × 480 pixels (VGA)</td>	Resolution	640 × 480 pixels (VGA)
Viewing angle       80°         Color depth (bits)       24         Aspect ratio       4:3         Auto-rotation       Yes         Touchscreen       Optically bonded PCAP         Display technology       IPS         Cover glass material       Dragontrail@         Programmable buttons       2         Viewfinder       No         Image adjustment       - Automatic maximum - Automatic minimum - Manual         Image presentation modes       -         Infrared image       Yes         Visual image       Yes         MSX       Yes         Picture in picture       Resizable and movable         Gallery       Yes         Measurement      20 to 120°C (-4 to 248°F): 0 to 650°C (32 to 1202°F)         Object temperature range      20 to 120°C (-4 to 248°F): 0 to 650°C (32 to 1202°F)         Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       Range -20 to 120°C (-4 to 248°F): 0 to 100°C (21 to 1248°F): ±2%         Camera temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       Range 0 to 650°C (32 to 1202°F): 0 to 100°C (21 to 1202°F): ±2°C (±3.6°F)         Into to 100°C (21 to 1202°C (+4 to 248°F): 0 to 100°C (21 to 1202°F): ±2°C (±3.6°F)       100 to 650°C (32 to 1202°F): ±2%         Screening mode	Surface brightness (cd/m <sup>2</sup> )	400
Color depth (bits)       24         Aspect ratio       4:3         Auto-rotation       Yes         Touchscreen       Optically bonded PCAP         Display technology       IPS         Cover glass material       Dragontrail@         Programmable buttons       2         Viewfinder       No         Image adjustment       - Automatic maximum - Automatic minimum - Manual         Image presentation modes       -         Infrared image       Yes         Visual image       Yes         MSX       Yes         Picture in picture       Resizable and movable         Gallery       Yes         Measurement      20 to 120°C (-4 to 248°F); 0 to 650°C (32 to 1202°F)         Object temperature range      20 to 120°C (-4 to 248°F); 0 to 100°C (-4 to 248°F); - 0 to 100°C (-4 to 248°F);         Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       Range -20 to 120°C (-4 to 248°F); - 0 to 100°C (21 to 1202°F); ±2°C (±3.6°F)         Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       Range 0 to 650°C (32 to 1202°F); ±2°C (±3.6°F)         Optional Range 300 to 1200°C (672 to 2192°F); ±2°C (±3.6°F)       100 to 120°C (21 to 1202°F); ±2°C (±3.6°F)         Optional Range 300 to 1200°C (57 to 2192°F); ±2°C (±3.6°F)       100 to 650°C (32 to	Screen size	4 in
Aspect ratio       4:3         Auto-rotation       Yes         Touchscreen       Optically bonded PCAP         Display technology       IPS         Cover glass material       Dragontrail®         Programmable buttons       2         Viewfinder       No         Image adjustment       - Automatic         Manual       - Automatic maximum         - Manual       - Manual         Infrared image       Yes         Visual image       Yes         Visual image       Yes         Picture in picture       Resizable and movable         Gallery       Yes         Measurement      20 to 120°C (-4 to 248°F)         Camera temperature range      20 to 120°C (-4 to 248°F)         Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       - Range -20 to 120°C (-4 to 248°F):         0       0 to 650°C (32 to 1202°F):      20 to 100°C (-4 to 248°F):         0       100 to 120°C (-4 to 248°F):      20 to 120°C (-4 to 248°F):         0       -20 to 100°C (-4 to 212°F): ±2°C (±3.6°F)       - 100 to 1650°C (32 to 1202°F):         Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       - 0 to 100°C (-4 to 248°F):      20 to 100°C (-4 to 248°F): <tr< td=""><td>Viewing angle</td><td>80°</td></tr<>	Viewing angle	80°
Auto-rotation       Yes         Touchscreen       Optically bonded PCAP         Display technology       IPS         Cover glass material       Dragontrail®         Programmable buttons       2         Viewfinder       No         Image adjustment       - Automatic         Manual       - Manual         Image presentation modes       -         Infrared image       Yes         Visual image       Yes         Visual image       Yes         Picture in picture       Resizable and movable         Gallery       Yes         Measurement       -20 to 120°C (-4 to 248°F)         Coptional 300 to 1200°C (572 to 2192°F)       Optional 300 to 1200°C (572 to 2192°F)         Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       -20 to 100°C (-4 to 248°F):         0       -20 to 100°C (-4 to 212°F): ±2°C (±3.6°F)       -0 to 100°C (32 to 1202°F):         Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       -20 to 100°C (-4 to 248°F):         0       -20 to 100°C (-4 to 212°F): ±2°C (±3.6°F)       -0 to 100°C (32 to 1202°F):         0       0 to 120°C (21 to 248°F): ±2°C       -0 to 100°C (572 to 2192°F):         0       0 to 100°C (32 to 1202°F):       -2% <td>Color depth (bits)</td> <td>24</td>	Color depth (bits)	24
Touchscreen       Optically bonded PCAP         Display technology       IPS         Cover glass material       Dragontrail®         Programmable buttons       2         Viewfinder       No         Image adjustment       • Automatic • Automatic maximum • Automatic minimum • Manual         Image presentation modes       Infrared image         Infrared image       Yes         Visual image       Yes         MSX       Yes         Picture in picture       Resizable and movable         Gallery       Yes         Measurement       • -20 to 120°C (-4 to 248°F) • 0 to 650°C (32 to 1202°F) • 0 to 650°C (32 to 1202°F) • 0 to 100°C (572 to 2192°F)         Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       • Range -20 to 120°C (-4 to 248°F): • -20 to 100°C (-4 to 248°F): • -20 to 100°C (21 to 248°F): ±2°C (±3.6°F) • 100 to 120°C (21 to 1202°F): ±2°C (±3.6°F) • 100 to 120°C (21 to 1202°F): ±2°C (±3.6°F) • 100 to 650°C (32 to 1202°F): ±2°C (±3.6°F) • 100 to 650°C (21 to 1202°F): ±2°C (±3.6°F)         Sampling average mode       Re	Aspect ratio	4:3
Display technology       IPS         Cover glass material       Dragontrail@         Programmable buttons       2         Viewfinder       No         Image adjustment       • Automatic - Automatic maximum • Automatic minimum • Manual         Image presentation modes       Infrared image         Infrared image       Yes         Visual image       Yes         MSX       Yes         Picture in picture       Resizable and movable         Gallery       Yes         Measurement       -20 to 120°C (-4 to 248°F) • 0 to 650°C (32 to 1202°F) • 0 Optional 300 to 1200°C (572 to 2192°F)         Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       • Range -20 to 120°C (-4 to 248°F): • -20 to 100°C (24 to 248°F): • 0 to 100°C (24 to 242°F): ±2°C (±3.6°F) • 100 to 120°C (21 to 1202°F): ±2°C • 100 to 120°C (21 to 1202°F): ±2°C • 100 to 650°C (21 to 1202°F): ±2°C • 100 to 650°C (21 to 1202°F): ±2°C • 100 to 650°C (21 to 1202°F): ±2°C • 0 to 100°C (53 to 21 2°F): ±2°C • 0 to 100°C (53 to 21 2°F): ±2°C • 0 to 100°C (53 to 21 2°F): ±2°C • 0 optional Range 300 to 1200°C (57 to 2192° F): ±2°C • Screening mode         Sampling average mode       Recommended temperature range: 30 to 45°C (86 to 113°F) in stable room temperature Accuracy (drift): ±0.3°C (±0.5°F)²	Auto-rotation	Yes
Cover glass material       Dragontrail®         Programmable buttons       2         Viewfinder       No         Image adjustment       • Automatic         · Automatic maximum       • Automatic minimum         • Manual       Image presentation modes         Infrared image       Yes         Visual image       Yes         MSX       Yes         Picture in picture       Resizable and movable         Gallery       Yes         Measurement       • -20 to 120°C (-4 to 248°F)         Carnera temperature range       • -20 to 120°C (-4 to 248°F)         • Oto 650°C (32 to 1202°F)       • Optional 300 to 1200°C (572 to 2192°F)         Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       • Range -20 to 120°C (-4 to 248°F): -0 to 100°C (-4 to 210°F): ±2°C (±3.6°F)         • 100 to 120°C (212 to 248°F):       • -20 to 100°C (-4 to 212°F): ±2°C (±3.6°F)         • 0 to 100°C (32 to 1202°F): ±2°C (±3.6°F)       • 0 to 100°C (212 to 248°F): ±2%         • Range 0 to 650°C (212 to 1202°F): ±2°C       • 0 to 100°C (572 to 2192° F)         • 0 to 100°C (212 to 248°F): ±2%       • 00 to 100°C (572 to 2192° F): ±2%         • 0 to 100°C (212 to 248°F): ±2%       • 0 to 100°C (572 to 2192° F): ±2%         • 0 to 100°C (212 to 1240°C F): ±2%       • 0 to 100°C (572 to 2192° F): ±	Touchscreen	Optically bonded PCAP
Programmable buttons       2         Viewfinder       No         Image adjustment       • Automatic         • Automatic maximum       • Automatic maximum         • Automatic minimum       • Automatic minimum         • Automatic minimum       • Manual         Image presentation modes       Infrared image         Infrared image       Yes         Visual image       Yes         MSX       Yes         Picture in picture       Resizable and movable         Gallery       Yes         Measurement       -20 to 120°C (-4 to 248°F)         Camera temperature range       • -20 to 120°C (-4 to 248°F)         • 0 to 650°C (32 to 1202°F)       • Optional 300 to 1200°C (572 to 2192°F)         Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       • Range -20 to 120°C (-4 to 248°F):         • -20 to 100°C (212 to 248°F): ±2°C (±3.6°F)       • 100 to 650°C (32 to 1202°F): ±2°C         • 0 to 100°C (212 to 248°F): ±2°C (±3.6°F)       • 100 to 650°C (212 to 1202°F): ±2°C         • 0 to 100°C (212 to 248°F): ±2°C (±3.6°F)       • 100 to 650°C (212 to 1202°F): ±2°C         • 0 to 100°C (212 to 248°F): ±2°C (±3.6°F)       • 100 to 650°C (212 to 1202°F): ±2°C         • 0 to 100°C (212 to 248°F): ±2°C (±3.6°F)       • 100 to 650°C (212 to 1202°F): ±2°C	Display technology	IPS
Viewfinder       No         Image adjustment <ul> <li>Automatic maximum</li> <li>Automatic maximum</li> <li>Automatic maximum</li> <li>Automatic minimum</li> <li>Manual</li> </ul> Image presentation modes       Infrared image         Infrared image       Yes         Visual image       Yes         MSX       Yes         Picture in picture       Resizable and movable         Gallery       Yes         Measurement           Camera temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) <ul> <li>Pictore 50°C (32 to 120°C (-4 to 248°F):</li> <li>Optional 300 to 120°C (-4 to 248°F):</li> <li>-20 to 100°C (-4 to 212°F): ±2°C (±3.6°F)</li> <li>100 to 120°C (-4 to 212°F): ±2°C (±3.6°F)</li> <li>100 to 120°C (21 to 1202°F):</li> <li>-20 to 100°C (32 to 212°F): ±2°C (±3.6°F)</li> <li>100 to 650°C (32 to 1202°F):</li> <li>0 to 100°C (32 to 212°F): ±2°C (±3.6°F)</li> <li>100 to 650°C (21 to 1202°F): ±2°C</li> <li>* 0 to 100°C (21 to 1202°C): ±2°A</li> <li>* 0 to 100°C (21 to 1200°C (57 to 2192° F)</li> <li>* 0 to 100°C (21 to 1200°C (57 to 2192° F)</li> <li>* 0 to 100°C (21 to 1200°C (57 to 2192° F)</li></ul>	Cover glass material	Dragontrail®
Image adjustment <ul> <li>Automatic maximum</li> <li>Automatic minimum</li> <li>Automatic minimum</li> <li>Manual</li> </ul> Image presentation modes       Infrared image       Yes         Infrared image       Yes         Visual image       Yes         MSX       Yes         Picture in picture       Resizable and movable         Gallery       Yes         Measurement           Camera temperature range <ul> <li>-20 to 120°C (-4 to 248°F)</li> <li>0 to 650°C (32 to 1202°F)</li> <li>Optional 300 to 1200°C (572 to 2192°F)</li> </ul> Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) <ul> <li>Range -20 to 120°C (-4 to 248°F):</li> <li>-20 to 100°C (-21 to 248°F): ±2°C (±3.6°F)</li> <li>100 to 120°C (32 to 1202°F): ±2°C (±3.6°F)</li> <li>0 to 100°C (32 to 1202°F): ±2°C (±3.6°F)</li> <li>0 to 100°C (32 to 212°F): ±2°C (±3.6°F)</li> <li>0 to 100°C (32 to 212°F): ±2°C (±3.6°F)</li> <li>0 to 100°C (212 to 1202°F): ±2°C</li> <li>Screening mode</li> </ul> Sampling average mode       Recommended temperature range: 30 to 45°C (86 to 113°F) in stable room temperature Accuracy (drift): ±0.3°C (±0.5°F) <sup>2</sup>	Programmable buttons	2
• Automatic         • Automatic maximum         • Automatic maximum         • Automatic minimum         • Manual         Image presentation modes         Infrared image         Yes         MSX         Yes         MSX         Picture in picture         Gallery         Yes         Measurement         Camera temperature range         • -20 to 120°C (-4 to 248°F)         • 0 to 650°C (32 to 1202°F)         • Optional 300 to 1200°C (572 to 2192°F)         • Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)         • Range -20 to 120°C (-4 to 248°F):         • -20 to 100°C (-4 to 212°F): ±2°C (±3.6°F)         • 100 to 120°C (212 to 248°F): ±2°C (±3.6°F)         • 0 to 100°C (32 to 1202°F): ±2°C (±3.6°F)         • 0 to 100°C (212 to 1202°F): ±2°C (±3.6°F)         • 100 to 120°C (212 to 248°F): ±2°C (±3.6°F)         • 100 to 120°C (212 to 1202°F): ±2°C         • 0 to 100°C (32 to 1202°F): ±2°C (±3.6°F)         • 100 to 120°C (572 to 2192° F): ±2°C         • 0 to 100°C (32 to 1202°F): ±2°C         • 0 to 100°C (572 to 2192° F): ±2°C         • 0 to 100°C (572 to 2192° F): ±2°C         • 0 to 100°C (572 to 2192° F): ±2°C	Viewfinder	No
Infrared image       Yes         Visual image       Yes         MSX       Yes         Picture in picture       Resizable and movable         Gallery       Yes         Measurement       -20 to 120°C (-4 to 248°F)         Camera temperature range       -20 to 120°C (-4 to 248°F)         Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       • Range -20 to 120°C (-4 to 248°F):         °       -20 to 100°C (-4 to 212°F): ±2°C (±3.6°F)         • 100 to 120°C (212 to 248°F): ±2%       • Range 0 to 650°C (32 to 1202°F):         • 0 to 100°C (32 to 212°F): ±2°C (±3.6°F)       • 100 to 650°C (212 to 248°F): ±2%         • Range 0 to 650°C (212 to 1202°F):       • 0 to 100°C (212 to 1202°F): ±2°C (±3.6°F)         • 100 to 650°C (212 to 1202°F): ±2°C       • 0 to 100°C (212 to 1202°F): ±2°C         Screening mode       Sampling average mode       Recommended temperature range: 30 to 45°C (86 to 113°F) in stable room temperature Accuracy (drift): ±0.3°C (±0.5°F) <sup>2</sup> <td>Image adjustment</td> <td><ul><li>Automatic maximum</li><li>Automatic minimum</li></ul></td>	Image adjustment	<ul><li>Automatic maximum</li><li>Automatic minimum</li></ul>
Visual image       Yes         MSX       Yes         Picture in picture       Resizable and movable         Gallery       Yes         Measurement       -20 to 120°C (-4 to 248°F)         Camera temperature range       -20 to 150°C (32 to 1202°F)         Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       Range -20 to 120°C (-4 to 248°F):         °       -20 to 100°C (-4 to 212°F): ±2°C (±3.6°F)         °       100 to 120°C (32 to 1202°F):         °       0 to 650°C (32 to 1202°F):         °       0 to 100°C (-4 to 212°F): ±2°C (±3.6°F)         °       100 to 120°C (21 to 248°F):         °       0 to 100°C (32 to 212°F): ±2°C (±3.6°F)         °       100 to 120°C (21 to 1202°F):         °       0 to 100°C (32 to 212°F): ±2°C (±3.6°F)         °       100 to 650°C (32 to 1202°F):         °       0 to 100°C (572 to 2192°F):         °       0 to 100°C (572 to 2192°F):         °       0 to 100°C (572 to 2192°F):         °       Optional Range 300 to 1200°C (572 to 2192°         F): ±2%       Screening mode         Sampling average mode       Recommended temperature range: 30 to 45°C (86 to 113°F) in stable room temperature Accuracy (drift): ±0.3°C (±0.5°F) <sup>2</sup>	Image presentation modes	
MSX       Yes         Picture in picture       Resizable and movable         Gallery       Yes         Measurement       -20 to 120°C (-4 to 248°F)         Camera temperature range       -20 to 120°C (-4 to 248°F)         Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)       Range -20 to 120°C (-4 to 248°F):         °       -20 to 100°C (-4 to 212°F): ±2°C (±3.6°F)         °       100 to 120°C (212 to 248°F): ±2°C (±3.6°F)         °       100 to 120°C (212 to 248°F): ±2°C (±3.6°F)         °       100 to 120°C (212 to 248°F): ±2°C (±3.6°F)         °       100 to 120°C (212 to 248°F): ±2°C (±3.6°F)         °       100 to 120°C (212 to 248°F): ±2°C (±3.6°F)         °       100 to 650°C (32 to 1202°F): ±2°C (±3.6°F)         °       100 to 650°C (212 to 1202°F): ±2°C (±3.6°F)         °       100 to 650°C (212 to 1202°F): ±2°C (±3.6°F)         °       100 to 650°C (212 to 1202°F): ±2°C         °       0 to 100°C (572 to 2192°         °       100 to 650°C (212 to 1202°F): ±2°C         °       Optional Range 300 to 1200°C (572 to 2192°         F): ±2%       Screening mode       Recommended temperature range: 30 to 45°C (86 to 113°F) in stable room temperature Accuracy (drift): ±0.3°C (±0.5°F) <sup>2</sup>	Infrared image	Yes
Picture in picture         Resizable and movable           Gallery         Yes           Measurement         -20 to 120°C (-4 to 248°F)           Camera temperature range         -20 to 550°C (32 to 1202°F)           Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)         Range -20 to 120°C (-4 to 248°F):           °         -20 to 100°C (-4 to 212°F): ±2°C (±3.6°F)           °         100 to 120°C (212 to 248°F): ±2°C           °         100 to 120°C (32 to 1202°F):           °         0 to 650°C (32 to 1202°F):           °         0 to 650°C (32 to 1202°F):           °         100 to 120°C (212 to 248°F):           °         0 to 100°C (32 to 212°F): ±2°C (±3.6°F)           °         100 to 650°C (32 to 1202°F):           °         0 to 100°C (32 to 212°F): ±2°C (±3.6°F)           °         100 to 650°C (212 to 1202°F):           °         0 to 100°C (572 to 2192°           °         100 to 650°C (212 to 1202°F):           °         0 to 100°C (572 to 2192°           °         F): ±2%           Screening mode         Recommended temperature range: 30 to 45°C (86 to 113°F) in stable room temperature Accuracy (drift): ±0.3°C (±0.5°F)²	Visual image	Yes
Gallery         Yes           Measurement         -20 to 120°C (-4 to 248°F)           Camera temperature range         -20 to 1650°C (32 to 1202°F)           Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)         • Range -20 to 120°C (-4 to 248°F):           °         -20 to 100°C (-4 to 212°F): ±2°C (±3.6°F)           °         100 to 120°C (212 to 248°F): ±2°C           °         -20 to 100°C (212 to 248°F): ±2°C           °         100 to 120°C (212 to 248°F): ±2°C           °         100 to 650°C (32 to 1202°F): ±2°C           °         0 to 100°C (32 to 212°F): ±2°C (±3.6°F)           °         100 to 650°C (212 to 1202°F): ±2°C           °         0 to 100°C (32 to 212°F): ±2°C           °         0 to 100°C (572 to 2192°           °         100 to 650°C (212 to 1202°F): ±2°C           °         0 to 100°C (572 to 2192°           °         100 to 650°C (212 to 1202°F): ±2°C           °         0 potional Range 300 to 1200°C (572 to 2192°           F): ±2%         Screening mode           Sampling average mode         Recommended temperature range: 30 to 45°C (86 to 113°F) in stable room temperature Accuracy (drift): ±0.3°C (±0.5°F)²	MSX	Yes
Measurement           Camera temperature range         -20 to 120°C (-4 to 248°F) • 0 to 650°C (32 to 1202°F) • Optional 300 to 1200°C (572 to 2192°F)           Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)         • Range -20 to 120°C (-4 to 248°F): • -20 to 100°C (-4 to 212°F): ±2°C (±3.6°F) • 100 to 120°C (212 to 248°F): ±2%           • Range 0 to 650°C (32 to 1202°F): • 0 to 100°C (32 to 212°F): ±2%         • Range 0 to 650°C (212 to 1202°F): • 100 to 650°C (212 to 1202°F): ±2%           • Optional Range 300 to 1200°C (572 to 2192° F): ±2%         • Optional Range 300 to 1200°C (572 to 2192° F): ±2%           Screening mode         Recommended temperature range: 30 to 45°C (86 to 113°F) in stable room temperature Accuracy (drift): ±0.3°C (±0.5°F) <sup>2</sup>	Picture in picture	Resizable and movable
Camera temperature range $-20 \text{ to } 120^{\circ}\text{C} (-4 \text{ to } 248^{\circ}\text{F})$ • $0 \text{ to } 650^{\circ}\text{C} (32 \text{ to } 1202^{\circ}\text{F})$ • Optional 300 to $1200^{\circ}\text{C} (572 \text{ to } 2192^{\circ}\text{F})$ Object temperature range and accuracy (for ambient temp. 15 to $35^{\circ}\text{C} (59 \text{ to } 95^{\circ}\text{F})$ • Range $-20 \text{ to } 120^{\circ}\text{C} (-4 \text{ to } 248^{\circ}\text{F})$ : • $-20 \text{ to } 100^{\circ}\text{C} (-4 \text{ to } 248^{\circ}\text{F})$ : • $-20 \text{ to } 100^{\circ}\text{C} (-4 \text{ to } 212^{\circ}\text{F})$ : $\pm 2^{\circ}\text{C} (\pm 3.6^{\circ}\text{F})$ • $100 \text{ to } 120^{\circ}\text{C} (212 \text{ to } 248^{\circ}\text{F})$ : $\pm 2^{\circ}$ Range 0 to $650^{\circ}\text{C} (32 \text{ to } 1202^{\circ}\text{F})$ : • $100 \text{ to } 650^{\circ}\text{C} (32 \text{ to } 1202^{\circ}\text{F})$ : $\pm 2^{\circ}$ Optional Range 300 to $1200^{\circ}\text{C} (572 \text{ to } 2192^{\circ})$ • $100 \text{ to } 650^{\circ}\text{C} (212 \text{ to } 1202^{\circ}\text{F})$ : $\pm 2^{\circ}$ Screening modeSampling average modeRecommended temperature range: 30 to $45^{\circ}\text{C}$ (86 to $113^{\circ}\text{F}$ ) in stable room temperature Accuracy (drift): $\pm 0.3^{\circ}\text{C} (\pm 0.5^{\circ}\text{F})^2$	Gallery	Yes
-20 to $120^{\circ}C$ ( $= 4$ to $248^{\circ}F$ )• 0 to $650^{\circ}C$ ( $32$ to $1202^{\circ}F$ )• Object temperature range and accuracy (for ambient temp. 15 to $35^{\circ}C$ ( $59$ to $95^{\circ}F$ )• Range $-20$ to $120^{\circ}C$ ( $-4$ to $248^{\circ}F$ ): • $-20$ to $100^{\circ}C$ ( $-4$ to $212^{\circ}F$ ): $\pm 2^{\circ}C$ ( $\pm 3.6^{\circ}F$ ) • $100$ to $120^{\circ}C$ ( $212$ to $248^{\circ}F$ ): $\pm 2^{\circ}$ • Range 0 to $650^{\circ}C$ ( $32$ to $1202^{\circ}F$ ): • $100$ to $120^{\circ}C$ ( $32$ to $212^{\circ}F$ ): $\pm 2^{\circ}C$ • $100$ to $650^{\circ}C$ ( $32$ to $212^{\circ}F$ ): $\pm 2^{\circ}C$ • $100$ to $650^{\circ}C$ ( $212$ to $1202^{\circ}F$ ): $\pm 2^{\circ}C$ • $100$ to $650^{\circ}C$ ( $212$ to $1202^{\circ}F$ ): $\pm 2^{\circ}C$ • $100$ to $650^{\circ}C$ ( $212$ to $1202^{\circ}F$ ): $\pm 2^{\circ}C$ • $100$ to $650^{\circ}C$ ( $212$ to $1202^{\circ}F$ ): $\pm 2^{\circ}C$ • $100$ to $650^{\circ}C$ ( $212$ to $1202^{\circ}F$ ): $\pm 2^{\circ}C$ • $100$ to $650^{\circ}C$ ( $212$ to $1202^{\circ}F$ ): $\pm 2^{\circ}C$ • $100$ to $650^{\circ}C$ ( $212$ to $1202^{\circ}F$ ): $\pm 2^{\circ}C$ • $100$ to $650^{\circ}C$ ( $212$ to $1202^{\circ}F$ ): $\pm 2^{\circ}C$ • $100$ to $650^{\circ}C$ ( $212$ to $1202^{\circ}F$ ): $\pm 2^{\circ}C$ • $100$ to $650^{\circ}C$ ( $212$ to $1202^{\circ}F$ ): $\pm 2^{\circ}C$ • $100$ to $650^{\circ}C$ ( $212$ to $1202^{\circ}F$ ): $\pm 2^{\circ}C$ • $100$ to $650^{\circ}C$ ( $212$ to $1202^{\circ}F$ ): $\pm 2^{\circ}C$ • $212^{\circ}F$ • $100$ to $650^{\circ}C$ ( $212$ to $1202^{\circ}F$ ): $\pm 2^{\circ}C$ • $212^{\circ}F$ • $100$ to $650^{\circ}C$ ( $212$ to $1202^{\circ}F$ ): $\pm 2^{\circ}C$ • $212^{\circ}F$ • $212^{\circ}F$ <br< td=""><td>Measurement</td><td></td></br<>	Measurement	
ambient temp. 15 to 35°C (59 to 95°F)       • Hange -20 to 120°C (-4 to 248°F):         • -20 to 100°C (-4 to 212°F): ±2°C (±3.6°F)         • 100 to 120°C (212 to 248°F): ±2%         • Range 0 to 650°C (32 to 1202°F):         • 0 to 100°C (32 to 212°F): ±2°C (±3.6°F)         • 100 to 650°C (212 to 1202°F):         • 0 to 100°C (32 to 212°F): ±2°C (±3.6°F)         • 100 to 650°C (212 to 1202°F): ±2%         • Optional Range 300 to 1200°C (572 to 2192°         • F): ±2%         Screening mode         Sampling average mode         Recommended temperature range: 30 to 45°C (86 to 113°F) in stable room temperature Accuracy (drift): ±0.3°C (±0.5°F) <sup>2</sup>	Camera temperature range	<ul> <li>0 to 650°C (32 to 1202°F)</li> </ul>
Sampling average mode       Recommended temperature range: 30 to 45°C (86 to 113°F) in stable room temperature         Accuracy (drift): ±0.3°C (±0.5°F) <sup>2</sup>		<ul> <li>-20 to 100°C (-4 to 212°F): ±2°C (±3.6°F)</li> <li>100 to 120°C (212 to 248°F): ±2%</li> <li>Range 0 to 650°C (32 to 1202°F):</li> <li>0 to 100°C (32 to 212°F): ±2°C (±3.6°F)</li> <li>100 to 650°C (212 to 1202°F): ±2%</li> <li>Optional Range 300 to 1200°C (572 to 2192°</li> </ul>
(86 to 113°F) in stable room temperature Accuracy (drift): ±0.3°C (±0.5°F) <sup>2</sup>	Screening mode	
Inspection mode	Sampling average mode	(86 to 113°F) in stable room temperature
	Inspection mode	
FLIR Inspection route Enabled in the camera	FLIR Inspection route	Enabled in the camera

2. No external blackbody needed.

## **FLIR T530 24°**



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Measurement analysis		
Spotmeter	3 in live mode	
Area	3 in live mode	
Automatic hot/cold detection	Automatic maximum/minimum markers within area	
Measurement presets	<ul> <li>No measurements</li> <li>Center spot</li> <li>Hot spot</li> <li>Cold spot</li> <li>User preset 1</li> <li>User preset 2</li> </ul>	
Difference temperature	Yes	
Reference temperature	Yes	
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list	
Measurement corrections	Yes	
External optics/windows correction	Yes	
Alarm		
Color alarm (isotherm)	<ul> <li>Above</li> <li>Below</li> <li>Interval</li> <li>Condensation (moisture/humidity/dewpoint)</li> <li>Insulation</li> </ul>	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function	
Set-up		
Color palettes	<ul> <li>Arctic</li> <li>White hot</li> <li>Black hot</li> <li>Iron</li> <li>Lava</li> <li>Rainbow</li> <li>Rainbow HC</li> </ul>	
Setup commands	Local adaptation of units, language, date, and time formats	
Languages	21	
Service functions		
Camera software update	Using USB cable or SD card	
Storage of images		
Storage media	Removable memory: SD card         10 seconds to 24 hours (infrared)         Using USB cable or Wi-Fi	
Time lapse (Periodic image storage)		
Remote control operation		
Image file format	Standard JPEG, measurement data included. Infrared-only mode	





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Image annotations		
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video	
Text	Text from predefined list or soft keyboard on touchscreen	
Visual image annotation	Yes	
Image sketch	Yes: on infrared only	
Sketch	From touchscreen	
METERLINK	Wireless connection (Bluetooth) to:	
	FLIR meters with METERLiNK	
Area measurement information	Yes	
GPS	Location data automatically added to every still image and first frame in video from built-in GPS	
Video recording in camera		
Radiometric infrared-video recording	RTRR (.csq)	
Non-radiometric infrared-video recording	H.264 to memory card	
Visual video recording	H.264 to memory card	
Video streaming		
Radiometric infrared-video streaming (compressed)	Over UVC	
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul> <li>H.264 (AVC) over RTSP (Wi-Fi)</li> <li>MPEG4 over RTSP (Wi-Fi)</li> <li>MJPEG over UVC and RTSP (Wi-Fi)</li> </ul>	
Visual video streaming	Yes	
Digital camera		
Resolution	5 MP with LED light	
Focus	Fixed	
Field of view	53° × 41°	
Video lamp	Built-in LED light	
Laser pointer		
Laser alignment	Position is automatically displayed on the infrared image	
Laser distance meter	Activated by dedicated button	
Laser	Class 2, 0.05–40 m (0.16–131 ft) ±1% of measured distance	
Data communication interfaces		
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort	
METERLiNK/Bluetooth	Communication with headset and external sensors	
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)	
Audio	Microphone and speaker for voice annotation of images	





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Data communication interfaces		
USB standard	USB 2.0 High Speed	
Video out	DisplayPort	
Video connector type	DisplayPort over USB Type-C	
Radio		
Operating frequency	Bluetooth + EDR/LE: 2402–2480 MHz	
	WLAN 2.4 GHz: 2412–2462 MHz	
	WLAN 5 GHz: 5150–5350 MHz (DFS: only slave mode)	
	Note that frequency band 5150–5350 MHz is for indoor use only, see national regulations.	
RF output (EIRP)	Bluetooth + EDR/LE: < 10 dBm	
	WLAN: < 17 dBm	
Antenna	Integrated PIFA antenna (gain: maximum 1.4 dBi)	
Power system		
Battery type	Rechargeable Li-ion battery	
Battery voltage	3.6 V	
Battery operating time	> 4 hours at 25°C (77°F) with typical use	
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger	
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator	
Charging temperature	0°C to 45°C (32°F to 113°F), except for the Korean market: 10°C to 45°C (50°F to 113°F)	
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)	
Power management	Automatic shut-down and sleep mode	
Environmental data		
Operating temperature range	–15 to 50°C (5–122°F)	
Storage temperature range	-40 to 70°C (-40 to 158°F)	
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles	
EMC	<ul> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (immunity)</li> <li>EN 61000-6-3 (emission)</li> <li>FCC 47 CFR part 15 B, class B (emission)</li> </ul>	
Radio spectrum	<ul> <li>ETSI EN 300 328</li> <li>ETSI EN 301 893</li> <li>FCC 47 CFR part 15 C</li> <li>FCC 47 CFR part 15 E</li> </ul>	
Encapsulation	IP 54 (IEC 60529)	
Shock	25g (IEC 60068-2-27)	





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Environmental data	
Vibration	2g (IEC 60068-2-6)
Safety	Camera: • IEC/EN 60950-1, IEC/EN 62368-1 Power supply: • IEC/EN 62368-1 • CSA/UL/KC/SAA/PSE 60950-1
Physical data Weight (including battery)	1.2 kg (2.0 lb)
Size (L × W × H)	1.3 kg (2.9 lb)
	<ul> <li>Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in)</li> <li>Lens horisontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in)</li> </ul>
Battery weight	195 g (6.89 oz)
Battery size $(L \times W \times H)$	$59\times 66\times 94$ mm (2.3 $\times$ 2.6 $\times$ 3.7 in)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black
Warranty and service	
Warranty	http://www.flir.com/warranty/
Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul> <li>Accessory box I: <ul> <li>Power supply for battery charger</li> <li>Power supply, 15 W/3 A</li> <li>Printed documentation</li> <li>SD card (8 GB)</li> <li>USB 2.0 A to USB Type-C cable</li> <li>USB Type-C to HDMI and PD adapter</li> <li>USB Type-C to USB Type-C cable (USB 2.0 standard)</li> </ul> </li> <li>Accessory box II: <ul> <li>Lens cap strap</li> <li>Lens cleaning cloth</li> <li>Neck strap</li> </ul> </li> <li>Battery (2 ea)</li> <li>Battery charger</li> <li>Hard transport case</li> <li>Infrared camera with lens</li> <li>Lens cap, front</li> <li>Lens cap, front and rear (only for extra lenses)</li> <li>License card: FLIR Thermal Studio Pro (3 month subscription) + FLIR Route Creator Plugin for Thermal Studio Pro (3 month subscription)</li> </ul>
Packaging, weight	5.8 kg (12.8 lb)
Packaging, size	$500 \times 190 \times 370$ mm (19.7 $\times$ 7.5 $\times$ 14.6 in)
EAN-13	7332558012925





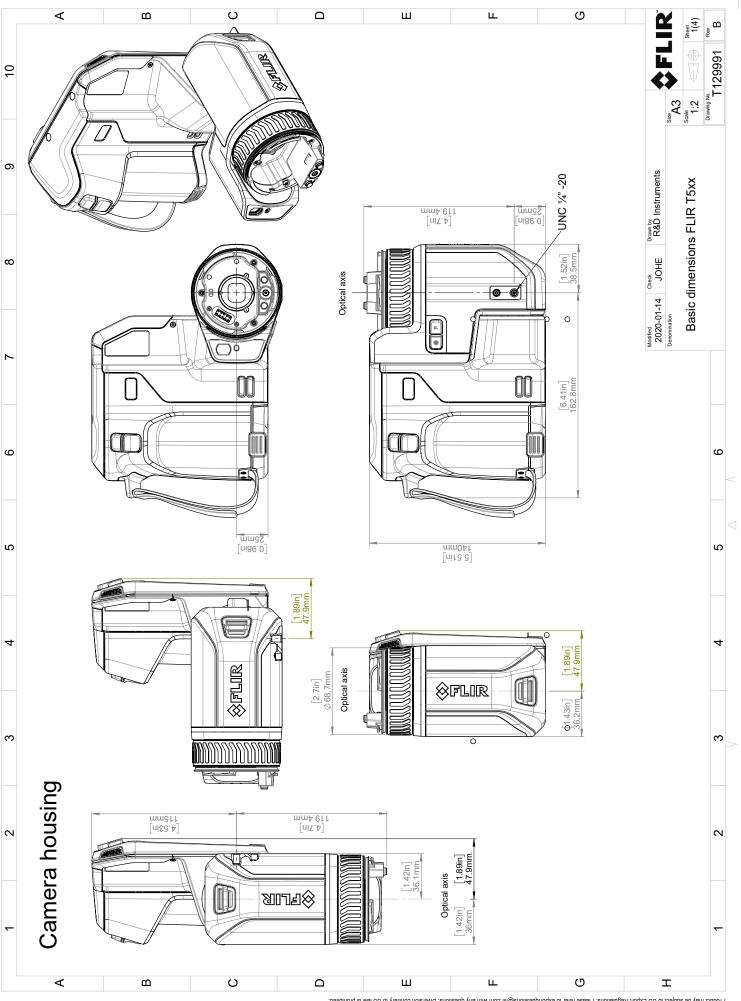
P/N: 79302-0101

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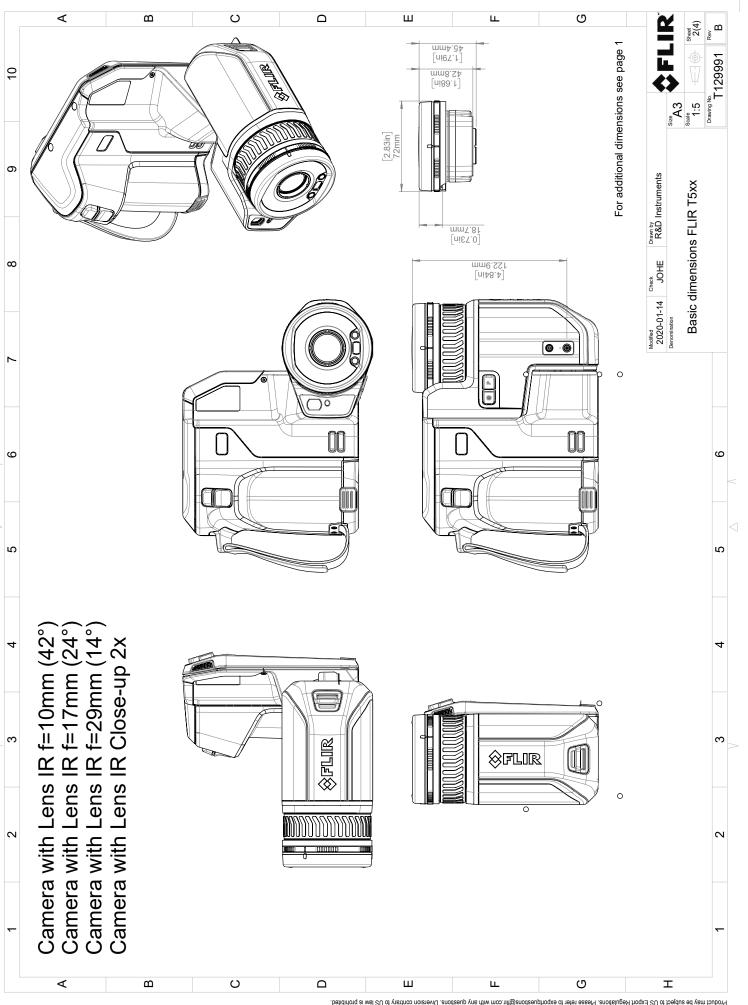
Shipping information	
UPC-12	845188014612
Country of origin	Sweden

### Supplies and accessories:

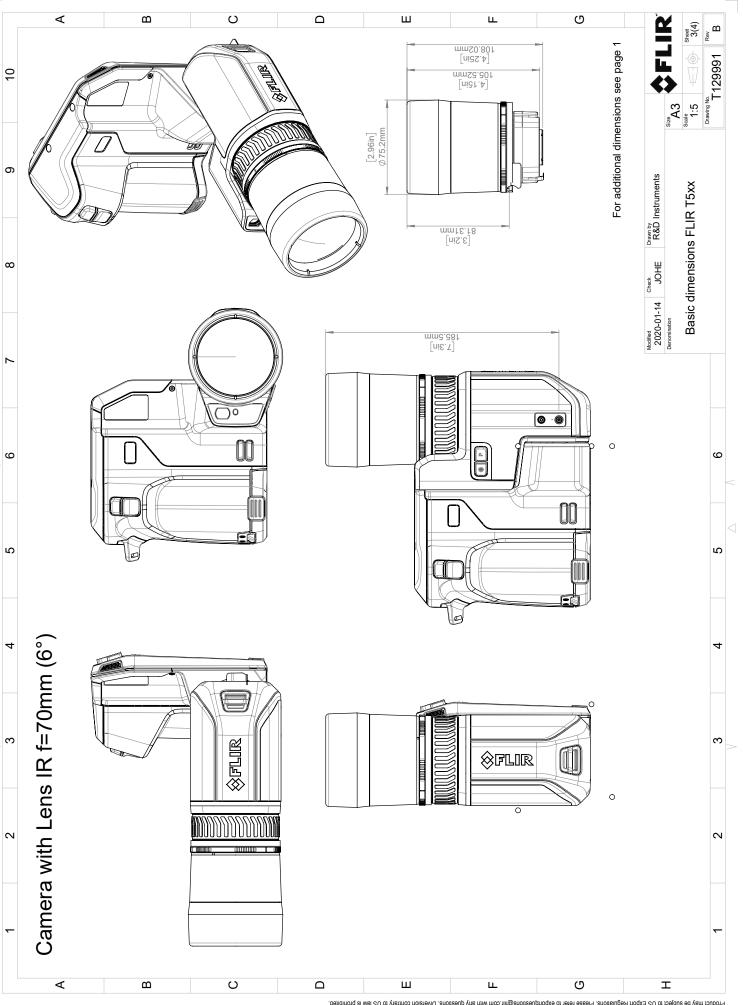
- T300238; Macro lens 2.0x with case
- T131171ACC; Remote operation button
- T199300ACC; Battery
- T199347ACC; Hard transport case for FLIR T8xx, T5xx, and GF7x series
- T199601; Hand strap and neck strap
- T199610; Battery charger
- T199616; Option, High temperature, +300 to +1200°C
- T300030; Option, No radio
- T911997; Tripod
- T911998; HDMI 2-port video splitter
- T300369; Mounting kit (FLIR T5xx, T8xx, Exx)
- T300344; EST Camera kit (FLIR Exx/T5xx/T8xx)
- T850105; FLIR Inspection Route Camera Option
- T850112; Option, Auto-screening
- T850111; Option, Dual streaming
- T199609; Option, Macro mode 50/71/101 μm for 24°
- T130337ACC; Calibration target
- T199588; IR lens, f=29 mm (14°) with case
- T199589; IR lens, f=17 mm (24°) with case
- T199590; IR lens, f=10 mm (42°) with case
- T300095; IR lens, f=70 mm (6°) with case
- T911630ACC; Power supply for camera, 15 W/3 A
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911633ACC; Power supply for battery charger
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911706ACC; Car adapter 12 V
- T911845ACC; USB Type-C to HDMI and PD adapter
- T911846ACC; USB 2.0 A to USB Type-C with Power supply
- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T300244; FLIR Route Creator Plugin for FLIR Thermal Studio Pro, 1 Year Subscription
- T300342; FLIR Screen-EST, Perpetual license
- T300243; FLIR Thermal Studio Pro, 1 Year Subscription
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300341; FLIR Thermal Studio Standard, 1 Year Subscription
- T300258; FLIR Thermal Studio Standard, Perpetual license
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013: FLIR ResearchIR Max 4 (printed license kev)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- 4220499; FLIR Research Studio 1 Year Subscription (online activation)
- 4220500; FLIR Research Studio Perpetual License (online activation)
- 4220646; FLIR Research Studio Perpetual License (USB dongle)
- INST-EW-0145; Extended Warranty 1 Year for T530
- INST-EWGM-0155; Premium Service Package for A3xx, T4xx mkII, T530
- INST-GM-0140; General Maintenance Package for T530



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The World's Sixth Sense"

February 2, 2019 Täby, Sweden

AQ320246

### **CE** Declaration of Conformity – EU Declaration of Conformity

Product: FLIR T5XX-, T8XX- and GF7X-series Name and address of the manufacturer: FLIR Systems AB PO Box 7376 SE-187 15 Täby, Sweden

This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration: FLIR T5XX-, T8XX- and GF7X-series (Product Model Name FLIR-T8210). The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

### Directives:

Directives.			
Directive Directive	2012/19/EU 2014/53/EU	Waste electrical and electric equipment Radio Equipment Directive (RED)	
Directive	1999/519/EC		
Directive			cion of exposure to electromagnetic fields (SAR)
Directive	2011/65/EU	конз а	und 2015/830/EU
Standards:			
EMC Radio:	ETSI EN 301 489-1 + -17	7	EMC for radio, broadband data transmission
Emission:	EN 61000-6-3/A1:2011		EMC – Generic standards
Immunity:	EN 61000-6-2:2005		Electromagnetic Compability Generic
	EN 301489-1:2016 v2.1	.0	ERM – EMC for radio equipment
	EN 301489-17:2012 v2.	2.1	ERM – EMC Wideband data
Laser:	EN 60825-1		Safety of laser products
Radio:	ETSI EN 300 328 v2.1.1		Harmonized EN covering essential
			requirements of the R&TTE Directive
	ETSI EN 301 893 v.2.1.1		5GHz WLAN
	EN 303 413 v1.1.0		Radio Spectrum Efficiency (gps)
SAR:	EN 50566:2013/AC:2014	4	Handheld and body mounted wireless
	EN 62209-02:2010		Handheld and body mounted wireless
Safety:	IEC 60950-1:2005+A1:20	009+	Information technology equipment
	A2:2013 EN 60950-1:20	06+	
	A11:2009+AC:2011+A12		
RoHS:	EN 50581:2012		Technical documentation
	2.1.00002.2012		

FLIR Systems AB Quality Assurance

the door

Lea Dabiri Quality Manager

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