

# HANDHELD

Technicians and contractors who need quality images and feature rich affordability for quick scans and/or intermittent inspections.

**Where used**

- Electrical inspections
- HVAC/R inspections
- Mechanical

- Residential home inspections
- Light commercial maintenance
- Industrial maintenance
- Chemical processing

- Oil and gas processing
- Reliability inspections (PdM)
- Light utility inspections
- Water and wastewater

- Building diagnostics
  - Building envelope
  - Commercial/industrial facilities



	TiS75+	TiS60+	TiS55+	TiS20+/TiS20+ MAX	PTi120 400C
<b>Infrared resolution</b>	384 x 288 (110 592 pixels)	320 x 240 (76 800 pixels)	256 x 192 (49 152 pixels)	120 x 90 (10 800 pixels)	
<b>I FOV (spatial resolution)</b>	1.91 mRad	1.86 mRad	1.91 mRad	7.6 mRad	
<b>Field of view</b>	42° H x 30° V	34.1° H x 25.6° V	28° H x 20° V	50° H x 38° V	
<b>Thermal sensitivity*</b>	≤0.040 °C at 30 °C target temp (40 mk)	≤0.045 °C at 30 °C target temp (45 mk)	≤0.040 °C at 30 °C target temp (40 mk)	≤0.060 °C at 30 °C target temp (60 mk)	
<b>Temperature range</b>	-20 °C to 550 °C (-4 °F to 1022 °F)	-20 °C to 400 °C (-4 °F to 752 °F)	-20 °C to 550 °C (-4 °F to 1022 °F)	TiS20+ -20 °C to 150 °C (-4 °F to 302 °F) TiS20+ MAX -20 °C to 400 °C (-4 °F to 752 °F)	-20 °C to 400 °C (-4 °F to 752 °F)
<b>Focus system</b>	Manual focus	Fixed Focus	Manual focus	Fixed Focus	
<b>Level and span</b>	Smooth auto and manual scaling				—
<b>Optional lenses</b>	Not compatible with optional lenses				
<b>Wireless connectivity**</b>	Fluke Connect™ app compatible. Wireless connectivity to PC, iPhone® and iPad® (iOS 4s and later), Android™ 4.3 and up, and WiFi to LAN				
<b>IR-Fusion™</b>	AutoBlend continuous 0 % to 100 %	Yes, 4 levels 0 %, 25 %, 50 %, 75 %, 100 %	AutoBlend continuous 0 % to 100 %	AutoBlend continuous 0 % to 100 %	
<b>Display</b>	8.9 cm (3.5 in) 640 x 480 landscape touchscreen LCD	8.9 cm (3.5 in) 320 x 240 landscape LCD	8.9 cm (3.5 in) 640 x 480 landscape touchscreen LCD	8.9 cm (3.5 in) 320 x 240 landscape touchscreen LCD	
<b>Frame rate</b>	9 Hz or 27 Hz models	9 Hz or 30 Hz models	9 Hz or 27 Hz models	9 Hz	
<b>Software</b>	Full analysis and reporting software with access to Fluke Connect Desktop				
<b>Voice annotation</b>	Yes, 60 second maximum audio recording via Bluetooth Audio Headset Profile (HSP) connection to external device. (sold separately)			—	
<b>Text annotation</b>	After IS2 capture, use on-screen keyboard to type a note	—	After IS2 capture, use on-screen keyboard to type a note	After IS2 capture, use on-screen keyboard to type a note	
<b>Video recording</b>	Standard and radiometric video, mp4 and is3			—	
<b>Battery life</b>	≥3.5 hours continuous use without WiFi (Actual life depends on settings and usage)	≥4 hours continuous use without WiFi (Actual life depends on settings and usage)	≥3.5 hours continuous use without WiFi (Actual life depends on settings and usage)	≥5 hours continuous use without WiFi (Actual life depends on settings and usage)	≥2 hours continuous use without WiFi (Actual life depends on settings and usage)
<b>Data streaming</b>	Yes			—	
<b>Color alarms</b>	High temperature, low temperature, inside or outside a set range, and dew point calculation	High temperature, low temperature, and isotherms (within range)	High temperature, low temperature, and inside or outside a set range	—	
<b>Warranty</b>	2 year				
<b>Asset tagging</b>	Automatically organize and file thermal images by scanning QR codes	—	Automatically organize and file thermal images by scanning QR codes		

\*Best possible

\*\*Fluke Connect™ not available in all countries.

## HANDHELD

Professional in-house, service, and contract thermographers as well as maintenance personnel who need quality images and advanced features and specifications for use in multiple applications.

### Where used

- Industrial maintenance
- Heavy commercial facility maintenance
- Oil and gas maintenance
- Veterinary
- Reliability inspections (PdM)
- Heavy building diagnostics
  - Building envelope
  - Construction defects
- Electrical, water, gas utilities
- Chemical processing
- Machinery, instrumentation and appliances
- Power generation/transmission



	Ti480 PRO	TiX580
<b>Infrared resolution</b>	640 x 480 (307 200 pixels)	
<b>SuperResolution</b>	Software only—Captures and combines 4x the data to create a 1280 x 960 image	Camera and software—Captures and combines 4x the data to create a 1280 x 960 image
<b>IFOV (spatial resolution)</b>	0.93 mRad	
<b>Field of view</b>	34° H x 24° V	
<b>Thermal sensitivity*</b>	≤0.05 °C at 30 °C target temp (50 mK)	
<b>Temperature range</b>	-20 °C to 1000 °C (-4 °F to 1832 °F)	
<b>MultiSharp™ Focus</b>	Yes, automatically captures in focus objects at different distances using multiple images	
<b>LaserSharp™ Auto Focus</b>	Yes, laser calculation of distance for automatic focusing	
<b>Manual focus</b>	Yes	
<b>Laser distance meter</b>	Yes, calculates distance to the target for precisely focused images and displays distance on screen	
<b>Optional lenses</b>	Pre-calibrated smart optional lenses: wide angle, 2x and 4x telephoto, macro	
<b>Wireless connectivity**</b>	Fluke Connect™ app compatible. Wireless connectivity to PC, iPhone® and iPad® (iOS 4s and later), Android™ 4.3 and up, and WiFi to LAN	
<b>IR-Fusion™</b>	Five modes of image blending (AutoBlend™ mode, Picture-in-Picture (PIP), IR/Visible alarm, Full IR, Full visible light) add the context of the visible details to your infrared image	
<b>Display</b>	8.9 cm (3.5 in) 640 x 480 touchscreen LCD	14.48 cm (5.7 in) 640 x 480 touchscreen LCD
<b>Frame rate</b>	60 Hz or 9 Hz models	
<b>Software</b>	Full analysis and reporting software with access to Fluke Connect Desktop and SmartView Classic desktop software	
<b>Voice annotation</b>	Yes, 60 second maximum audio recording	Yes, 60 seconds maximum audio recording, Bluetooth headset required
<b>Text annotation</b>	Yes. Including standard shortcuts as well as user programmable options	
<b>Video recording</b>	Standard and radiometric. mp4 is3	
<b>Streaming video (remote display)</b>	Yes, see the live stream of the camera display on your PC or TV monitor. Use USB, WiFi hotspot, or WiFi network to Fluke Connect Desktop software on a PC; use WiFi hotspot to the Fluke Connect™ app on a smartphone; or use HDMI to a TV monitor	
<b>Remote control operation</b>	Yes, through Fluke Connect™ mobile app	
<b>Color alarms</b>	High temperature, low temperature, and isotherms (within range)	
<b>Warranty</b>	2 year	

## ADD ON LENSES (TiX580 and Ti480 PRO)



	Wide Angle Lens LENS/WIDE2	4X Telephoto Lens LENS/4XTELE2	2X Telephoto Lens LENS/TELE2
<b>IFOV (spatial resolution)</b>	TiX580 and Ti480 PRO: 1.86 mRad	TiX580 and Ti480 PRO: 0.17 mRad	TiX580 and Ti480 PRO: 0.33 mRad
<b>Field of view</b>	46° H x 34° V	6.0° H x 4.5° V	12° H x 9° V
<b>Focus distance</b>	15 cm (approximately 6 in)	1.5 m (approximately 5 ft)	45 cm (approximately 18 in)



	25 Micron Macro Lens LENS/25MAC2
<b>Object size</b>	7.8 mm x 5.8 mm
<b>Focus distance</b>	10.4 mm ± 1 mm (0.4 in)

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## MOUNTED

R&D professionals, scientists and engineers who require a mounted infrared camera to continuously stream, measure and analyze data

### Where used

- Research and development
  - Electrical
  - Mechanical
  - Biology/sciences
- Quality control
  - Pre- and post- production testing



	RSE600/C	RSE300/C
<b>Infrared resolution</b>	640 x 480 (307 200 pixels)	320 x 240 (76 800 pixels)
<b>IFOV (spatial resolution)</b>	0.93 mRad	1.85 mRad
<b>Field of view</b>	34°H x 24°V	
<b>Thermal sensitivity*</b>	≤0.040 °C at 30 °C target temp (40 mK)*	≤0.030 °C at 30 °C target temp (30 mK)*
<b>Temperature range</b>	-10 °C to 1200 °C (14 °F to 2192 °F)	
<b>Focus systems</b>	Focus is adjusted in Fluke SmartView R&D software	
<b>Optional lenses</b>	Pre-calibrated smart lenses: wide angle, 2x telephoto, 4x telephoto, macro	
<b>IR-Fusion™</b>	Five modes of image blending (AutoBlend discrete levels 0% 25% 50% 75% 100%, Picture-in- Picture (PIP), IR/Visible alarm, Full IR, Full visible light) add the context of the visible details to your infrared image	
<b>Display</b>	No on-camera display	
<b>Design</b>	Can be mounted to a stand or wall bracket for continuous data streaming	
<b>Frame rate</b>	60 Hz or 9 Hz versions	
<b>Software</b>	Full analysis and reporting software with Fluke SmartView R&D Compatible with MATLAB™ and LabVIEW™ software	
<b>Voice annotation</b>	Yes, in Fluke SmartView R&D software	
<b>Text annotation</b>	Yes, in Fluke SmartView R&D software	
<b>Video recording</b>	Radiometric, in Fluke SmartView R&D software, with exports to standard non-radiometric formats	
<b>Streaming video (remote display)</b>	Yes, see the live stream of the camera display on your PC via Smartview R&D software	
<b>Remote control operation</b>	Yes, through ethernet and Fluke SmartView R&D software	
<b>Alarms</b>	Yes, in Fluke SmartView R&D software—high temperature, low temperature, and isotherms (within range)	
<b>Warranty</b>	2 year	

\*Best possible

## ADD ON LENSES (RSE600/C and RSE300/C)



	Wide Angle Lens 0.75X-WIDE-LENS	4X Telephoto Lens FLK-4X-LENS	2X Telephoto Lens FLK-2X-LENS
<b>IFOV (spatial resolution)</b>	RSE600/C: 0.93 mRad RSE300/C: 1.85 mRad	RSE600/C: 0.24 mRad RSE300/C: 0.48 mRad	RSE600/C: 0.47 mRad RSE300/C: 0.94 mRad
<b>Field of view</b>	45° H x 32° V	8.5° H x 6.0° V	17° H x 12° V
<b>Focus distance</b>	15 cm (approximately 6 in)	1.5 m (approximately 5 ft)	45 cm (approximately 18 in)



	25 Micron Macro Lens MACRO-LENS
<b>Object size</b>	11 mm x 8.25 mm
<b>Focus distance</b>	10.8 mm ± 1 mm (0.4 in)

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