FLUKE

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
Infrared resolution	384 x 288 (110 592 pixels)	320 x 240 (76 800 pixels)	256 x 192 (49 152 pixels)	120 x 90 (10 800 pixels)	
IFOV (spatial resolution)	1.91 mRad	1.86 mRad	1.91 mRad	7.6 mRad	
Field of view	42° H x 30° V	34.1° H x 25.6° V	28° H x 20° V	50° H x 38° V	
Thermal sensitivity*	≤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)	
Temperature range	–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)
Focus system	Manual focus	Fixed Focus	Manual focus	Fixed Focus	
Level and span	Smooth auto and manual scaling				—
Optional lenses	Not compatible with optional lenses				
Wireless connectivity**	Fluke Connect™ app compatible. Wireless connectivity to PC, iPhone® and iPad® (iOS 4s and later), Android™ 4.3 and up, and WiFi to LAN				
IR-Fusion™	AutoBlend continuous 0 % to 100 %	Yes, 4 levels 0 %, 25 %, 50 %, 75 %, 100 %	AutoBlend continuous 0 % to 100 %	AutoBlend continuous 0 % to 100 %	
Display	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	
Frame rate	9 Hz or 27 Hz models	9 Hz or 30 Hz models	9 Hz or 27 Hz models	9 Hz	
Software	Full analysis and reporting software with access to Fluke Connect Desktop				
Voice annotation	Yes, 60 second maximum audio recording via Bluetooth Audio Headset Profile (HSP) connection to external device. (sold separately)			—	
Text annotation	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	
Video recording	Standard and radiometric video, mp4 and is3	—			
Battery life	≥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)
Data streaming	Yes	—			
Color alarms	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	—	
Warranty	2 year				
Asset tagging	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.

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

- Research and development
  - Electrical
  - Mechanical
  - Sciences
- Quality control

	Ti480 PRO	TiX580
Infrared resolution	640 x 480 (307 200 pixels)	
SuperResolution	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
IFOV (spatial resolution)	0.93 mRad	
Field of view	34° H x 24° V	
Thermal sensitivity*	≤0.05 °C at 30 °C target temp (50 mK)	
Temperature range	–20 °C to 1000 °C (–4 °F to 1832 °F)	
MultiSharp™ Focus	Yes, automatically captures in focus objects at different distances using multiple images	
LaserSharp™ Auto Focus	Yes, laser calculation of distance for automatic focusing	
Manual focus	Yes	
Laser distance meter	Yes, calculates distance to the target for precisely focused images and displays distance on screen	
Optional lenses	Pre-calibrated smart optional lenses: wide angle, 2x and 4x telephoto, macro	
Wireless connectivity**	Fluke Connect™ app compatible. Wireless connectivity to PC, iPhone® and iPad® (iOS 4s and later), Android™ 4.3 and up, and WiFi to LAN	
IR-Fusion™	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	
Display	8.9 cm (3.5 in) 640 x 480 touchscreen LCD	14.48 cm (5.7 in) 640 x 480 touchscreen LCD
Frame rate	60 Hz or 9 Hz models	
Software	Full analysis and reporting software with access to Fluke Connect Desktop and SmartView Classic desktop software	
Voice annotation	Yes, 60 second maximum audio recording	Yes, 60 seconds maximum audio recording, Bluetooth headset required
Text annotation	Yes. Including standard shortcuts as well as user programmable options	
Video recording	Standard and radiometric. mp4 is3	
Streaming video (remote display)	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	
Remote control operation	Yes, through Fluke Connect™ mobile app	
Color alarms	High temperature, low temperature, and isotherms (within range)	
Warranty	2 year	

ADD ON LENSES (TiX580 and Ti480 PRO)

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

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

FLUKE

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
Infrared resolution	640 x 480 (307 200 pixels)	320 x 240 (76 800 pixels)
IFOV (spatial resolution)	0.93 mRad	1.85 mRad
Field of view	34°H x 24°V	
Thermal sensitivity*	≤0.040 °C at 30 °C target temp (40 mK)*	≤0.030 °C at 30 °C target temp (30 mK)*
Temperature range	–10 °C to 1200 °C (14 °F to 2192 °F)	
Focus systems	Focus is adjusted in Fluke SmartView R&D software	
Optional lenses	Pre-calibrated smart lenses: wide angle, 2x telephoto, 4x telephoto, macro	
IR-Fusion™	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	
Display	No on-camera display	
Design	Can be mounted to a stand or wall bracket for continuous data streaming	
Frame rate	60 Hz or 9 Hz versions	
Software	Full analysis and reporting software with Fluke SmartView R&D Compatible with MATLAB™ and LabVIEW™ software	
Voice annotation	Yes, in Fluke SmartView R&D software	
Text annotation	Yes, in Fluke SmartView R&D software	
Video recording	Radiometric, in Fluke SmartView R&D software, with exports to standard non-radiometric formats	
Streaming video (remote display)	Yes, see the live stream of the camera display on your PC via Smartview R&D software	
Remote control operation	Yes, through ethernet and Fluke SmartView R&D software	
Alarms	Yes, in Fluke SmartView R&D software–high temperature, low temperature, and isotherms (within range)	
Warranty	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
IFOV (spatial resolution)	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
Field of view	45° H x 32° V	8.5° H x 6.0° V	17° H x 12° V
Focus distance	15 cm (approximately 6 in)	1.5 m (approximately 5 ft)	45 cm (approximately 18 in)

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