



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
- Building diagnostics
- Building envelope
- Commercial/industrial facilities











| | TiS75+ | TiS60+ | TiS55+ | TiS20+/TiS20+ MAX | PTi120 |
|---------------------------|---|--|--|--|---------------------------------------|
| 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 | 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 °Н х | 38 °V |
| Thermal sensitivity* | ≤ 0.040 °C at 30 °C target temp (40 mk) | ≤ 0.045 °C at 30 °C target temp (45 mK) | \leq 0.040 °C at 30 °C target temp (40 mk) | ≤ 0.060 °C at 30 °C | arget 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 150 ° C (-4 °F to +302 °F) |
| Focus system | Manual focus and fixed focus | Fixed Focus | Manual focus and fixed 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 % | % to 100 % AutoBlend continuous 0 % to 100 % | |
| Display | 3.5" (8.9 cm landscape) touchscreen 640 x 480 LCD | 3.5 inch (8.9 cm landscape) 320 x 240 LCD | 3.5" (8.9 cm landscape) touchscreen 640 x 480 LCD | 3.5 inch (8.9 cm landscape) | 320 x 240 touchscreen LCD |
| Frame rate | 9 Hz or 27 Hz models | < 9 Hz or 30 Hz models | 9 Hz or 27 Hz models | 91 | Iz |
| Software | | Full analysis and reporting software with access to Fluke Connect Desktop | | | |
| Voice annotation | Yes, 60 second maximum audio re | ecording via Bluetooth Audio Headset Profile (HSP) connection to external device. (sold separately) | | | |
| Text annotation | After IS2 capture, user can type in a note using on-screen keyboard. | - | After IS2 capture, user can type in a note using on-screen keyboard. | After IS2 capture, user can type in | a note using on-screen keyboard. |
| Video recording | Standard and radiometric video, mp4 and is3 | | | _ | |
| Battery life | ≥ 3.5 hours continuous without WiFi (Actual life depends on settings and usage) | 4 hours continuous use per battery pack (without WiFi) | ≥ 3.5 hours continuous without WiFi (Actual life depends on settings and usage) | ≥ 5 hours continuous (without WiFi) | ≥ 2 hours continuous (without WiFi) |
| Data streaming | Yes | | | - - | |
| Color alarms | High temperature, low temperature, inside or outside a set range, and dew point calculation | High temperature, low temperature, isotherms (within range) | High temperature, low temperature and inside or outside a set range. | _ | |
| Warranty | | | 2 year warranty | | |
| Asset tagging | Automatically organize and file thermal images by scanning OR codes | - | Aut | omatically organize and file thermal images by scanning QR co | des |

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







| | Ti480 PRO | Ti401 PRO | Ti300+ |
|-------------------------------------|--|----------------------------|---------------------------|
| Infrared resolution | 640 x 480 (307,200 pixels) | 640 x 480 (307,200 pixels) | 320 x 240 (76,800 pixels) |
| Super resolution | Yes, in software. Captures and combines 4x the data to create a 1280 x 960 image | N | 0 |
| IFOV (spatial resolution) | 0.93 | mRad | 1.85 mRad |
| Field of view | | 34° H x 24° V | |
| Thermal sensitivity* | ≤ 0.05 °C at 30 °C target temp (50 mK) | ≤ 0.075 °C at 30 °C | target temp (75 mK) |
| Temperature range | -20 °C to +1,000 °C (-4 °F to +1,832 °F) | -20 °C to +650 °C | (-4 °F to +1,202 °F) |
| MultiSharp™ Focus | Yes, automatically captures in focus objects at different distances using multiple images | N | 0 |
| LaserSharp™ Auto Focus | LaserSharp™ Auto Focus for consistently in-focus images | | |
| 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 | 3.5 inch touchscreen, 640 x 480 LCD | | |
| Frame rate | 60 Hz or 9 Hz models | | |
| Software | Full analysis and reporting software with access to Fluke Connect Desktop and SmartView software | | |
| Voice annotation | Yes, 60 second maximum audio recording via Bluetooth Audio Headset Profile (HSP) connection to external device (sold separately but not 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. Via USB, WiFi hotspot, or WiFi network to Fluke Connect™ app on a smartphone; or via 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 | Two-years (standard), extended warranties are available | | |



^{**}Fluke Connect™ not available in all countries.

ADD ON LENSES









| | Wide Angle Infrared Smart Lens | 4x Telephoto lens | 2x telephoto lens |
|---------------------------|---|---|---|
| IFOV (spatial resolution) | Ti401 PRO / Ti480 PRO: 1.86 mRad Ti300+: 3.71 mRad | Ti401 PRO / Ti480 PRO: 0.17 mRad Ti300+: 0.34 mRad | Ti401 PRO / Ti480 PRO: 0.33 mRad Ti300+: 0.66 mRad |
| Field of view | 46°Hx34°V | 6.0° H x 4.5° V | 12°Hx9°V |
| Focus distance | 15 cm (approximately 6 in) | 1.5 m (approximately 5 ft) | 45 cm (approximately 18 in) |



| | 25 Micron Macro Infrared Smart Lens |
|----------------|--|
| Object size | 7.8 mm x 5.8 mm |
| Focus distance | 10.4 mm +/- 1 mm (0.4 in) |



ARTICULATING

Engineers, R&D professionals and advanced thermographers who require premium image quality and an unsurpassed level of detail in every infrared image.

Where used

- Industrial maintenance
- Oil and gas predictive maintenance
- Power generation/transmission
- Research and development

 Electrical

 Mechanical

- Sciences



• Plus the industries included under the handheld series





| | Тіх580 | | |
|-------------------------------------|---|--|--|
| Detector resolution | 640 x 480 (307,200 pixels) SuperResolution mode: 1280 x 960 (1,228,800 pixels) | 640 x 480 (307,200 pixels) | |
| IFOV (spatial resolution) | 0.93 m | Rad | |
| Field of view | 34 °H x 24 °V | | |
| Thermal sensitivity* | ≤ 0.05 °C at 30 °C target temp (50 mK) | ≤ 0.075 °C at 30 °C target temp (75 mK) | |
| Temperature range | -20 °C to +1,000 °C (-4 °F to +1,832 °F) | -20 °C to +650 °C (-4 °F to +1,202 °F) | |
| Focus systems | LaserSharp™ Auto Focus with built-in laser distance meter and advanced manual focus | LaserSharp™ Auto Focus with built-in laser distance meter and advanced manual focus | |
| MultiSharp™ Focus | Yes, automatically captures in focus objects at different distances using multiple images | | |
| Laser distance meter | Yes, calculates distance to the target for precisely f | ocused 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 continuous 0 % to 100 %, Picture-in-Picture (PIP), IR/Visible alarm, Full IR, Full visible light) add the context of the visible details to your infrared image | 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 | 5.7 inch touchscreen LCD, 640 x 480 pixel resolution | | |
| Design | 240° rotating (articulating) lens | | |
| Frame rate 60 Hz or 9 Hz versions | | z versions | |
| Software | Full analysis and reporting software with access to | Fluke Connect Desktop and SmartView software | |
| Voice annotation | 60 seconds maximum recording time per image, reviewable playback on camera; Bluetooth headset optional, but not required | | |
| Text annotation | Yes. Including standard shortcuts as well as user programmable options | | |
| Video recording | Standard and radiometric | Standard | |
| Streaming video (remote display) | Yes, see the live stream of the camera display on your PC, smartphone, or TV monitor. Via USB, WiFi hotspot, or WiFi network to Fluke Connect Desktop software on a PC; via WiFi hotspot to the Fluke Connect™ app on a smartphone; or via HDMI to a TV monitor | | |
| Remote control operation | Remote display and control operation through Fluke Connect | Remote display through Fluke Connect | |
| Alarms | High temperature, low temperature, and isotherms (within range) | | |
| Warranty | Two-years (standard), extended warranties are available | | |

^{*}Best possible

ADD ON LENSES





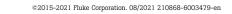




| | Wide Angle Infrared Smart Lens | 4x Telephoto lens | 2x telephoto lens |
|---------------------------|--------------------------------|----------------------------|-----------------------------|
| IFOV (spatial resolution) | TiX501 / TiX580: 1.86 mRad | TiX501 / TiX580: 0.17 mRad | TiX501 / TiX580: 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 Infrared Smart Lens |
|----------------|--|
| Object size | 7.8 mm x 5.8 mm |
| Focus distance | 10.4 mm +/- 1 mm (0.4 in) |



^{**}Fluke Connect $^{\text{\tiny{TM}}}$ not available in all countries.

MOUNTED

ADD ON LENSES



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

Where used

- Research and development
- ElectricalMechanical

- Biology/sciences
 Quality control
 Pre- and post- production testing





| | RSE600 | RSE300 | |
|----------------------------------|--|---|--|
| 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)* | \leq 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 an | gle, 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 be | racket 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 or TV monitor. Via USB, WiFi hotspot, or WiFi network to Fluke software on a PC; or via HDMI to a TV monitor | | |
| 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 | Two years (standard), extended warranties are available | | |







| | Wide Angle Infrared Smart Lens | 4x Telephoto lens | 2x telephoto lens |
|---------------------------|--|--|--|
| IFOV (spatial resolution) | RSE600: 0.93 mRad RSE300: 1.85 mRad | RSE600: 0.24 mRad RSE300: 0.48 mRad | RSE600: 0.47 mRad RSE300: 0.94 mRad |
| Field of view | 46°Hx34°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 Infrared Smart Lens |
|----------------|--|
| Object size | 11 mm x 8.25 mm |
| Focus distance | 10.8 mm +/- 1 mm (0.4 in) |

*Best possible ©2015-2021 Fluke Corporation. 08/2021 210868-6003479-en