It's time to see what you're missing.

HD Infrared with SuperResolution

It's time to see what you're missing.
The FUTURE OF INFRARED is here in STUNNING HD\* resolution.
Your work as an expert thermographer is defined by the quality of the infrared images you take and your ability to analyze what’s before you. The most pressing challenge lies not in analyzing what you see, but the fear of missing something you can’t.

* HD images are captured by the TiX1000 in SuperResolution mode and viewable in the SmartView® software.
Introducing
THE EXPERT SERIES
The right cameras when you can’t afford to be wrong.
Instantly capture highly detailed images and start analyzing them while still in the field. See incredible detail from a distance or extremely close up. Capture the tough shots with a large 5.6 inch articulating LCD display.

SuperResolution: The most spectacular images ever from a Fluke infrared camera.
Select the SuperResolution mode before you capture images and transfer them to the included SmartView® software to reveal up to 3.1 million pixels (use the TiX1000 and SuperResolution to produce HD quality imagery)—4x the on-camera standard resolution and see infrared in a whole new way.

How does it work?
An infrared image consists of sensitive elements and the blank or non-sensitive spaces between them. SuperResolution shifts the sensitive elements 4x and fills the spaces, resulting in 100% coverage and an image with 4x more resolution.
The industry’s most advanced focus options.
Get through your day faster. The advanced focus systems in these cameras take in-focus images faster and easier providing premium image quality and precise temperature readings.

LaserSharp® Auto Focus.
Get an in-focus image like never before with just a touch of a button. LaserSharp® Auto Focus, exclusive to Fluke, uses its built-in laser distance meter to calculate and display the distance to your designated target with pinpoint accuracy. On target and in-focus. Every. Single. Time.

EverSharp multi-focus recording for edge-to-edge clarity.
EverSharp mode utilizes the focus motor to capture multiple images from varying focal distances with the push of a button. Using special algorithms, SmartView® software will combine images taken from multiple focal distances and create one image that sharpens the detail of not just your inspection target, but also enhances the focus of the elements around your target. As a result, you get impressive images with superb image quality.

Help identify failures in the lab before they become failures in the field.
Rapid changes in temperature are often a telling and critical part of product development and quality control (e.g. printed circuit board production). Capture, document and analyze multiple frames of data per second to see sudden temperature changes with the optional Subwindowing feature (up to 240 Hz).

See it. Save it. Share it.
When you need answers quickly, the Fluke Connect™ app is an indispensable, timesaving tool. See what’s actually happening in the field with ShareLive™ video call so questions can be answered quickly and work orders authorized before you leave the field. With Fluke Connect™, you’re never out of touch with your team.

*Fluke Connect is not available in all countries.
**Within your provider’s wireless service area.
Fluke TiX1000 Infrared Camera

The FIRST HD* infrared camera with Fluke Connect™

10x more on-camera pixels than standard 320x240 infrared cameras
1024x768 resolution (786,432 pixels).

1 Save time and get consistently in-focus images
With LaserSharp® Auto Focus, auto focus, manual, and EverSharp multifocal recording—the most advanced focus options all in one camera.

2 Work from safer distances
Inspect areas that you could not get close to before and still get spectacular, detailed infrared images.
Enhanced image quality and temperature measurement accuracy
Details come to life with 4x greater resolution than standard mode with SuperResolution (3.1 million pixels).

8 optional lenses for maximum versatility (2x and 4x telephoto lenses, 2 wide angle, 3 macro lenses and 1 standard).

Large, adjustable 5.6-inch screen for premium viewing
Get a premium in-field viewing experience for quick issue identification with the large 5.6-inch high resolution LCD screen. Easily navigate over, under and around objects to get the best picture.

See it. Save it. Share it with the Fluke Connect™ app*
See what your team is seeing, watch live video and readings to troubleshoot problems, answer questions and approve work orders from any location.**

Choose the most convenient image transfer protocol for your application
Camera data ports: Image transfer: SD card, USB 2.0, video output DVI-D (HDMI), SmartView® software: SD card, USB 2.0. (GigE Vision and RS232 available in 2015).

Optimized for outdoor inspections
Viewfinder reduces outdoor glare for fast and easy image capture.

*HD images are captured by the TiX1000 in SuperResolution mode and viewable in the SmartView® software.
**Fluke Connect is not available in all countries.
***Within your providers wireless service area.
THE EXPERT SERIES

Fluke TiX660 and TiX640 INFRARED CAMERAS

4x more on-camera pixels than standard 320x240 infrared cameras
640x480 resolution (307,200 pixels).

1. Work from safer distances
   Inspect areas that you could not get close to before and still get spectacular, detailed infrared images.

2. Save time focusing with the most advanced focus options available for consistently in-focus images
   LaserSharp® Auto Focus (TiX660 only), auto focus, manual, and EverSharp multifocal recording features—the most advanced focus options all in one camera.
See what your team is seeing, watch live video and readings to troubleshoot problems, answer questions and approve work orders from any location.

Optimized for outdoor inspections
Viewfinder reduces outdoor glare for fast and easy image capture (Ti660 only).

Choose the most convenient image transfer protocol for your application
Camera data ports: Image transfer: SD card, USB 2.0, video output DVI-D (HDMI). SmartView® software: SD card. USB 2.0. (GigE Vision and RS232 available in 2015).

User-defined programmable buttons
Program one-touch access for most used features.
### Specifications

**Detector resolution**
- **TIX1000**: 1024 x 768 (786,432 pixels)
  - SuperResolution mode: 2048 x 1536 (3.1 million pixels)
- **TIX660**: 640 x 480 (307,200 pixels)
  - SuperResolution mode: 1280 x 960 (1.2 million pixels)
- **TIX640**: 640 x 480 (307,200 pixels)

**Field of view**
- TIX1000: 32.4° x 24.7°
- TIX660: 30.9° x 23.1°

**Optional lenses**
- Capture spectacular images close up or from a distance with optional lenses:
  - 2 wide angle, 2 telephoto, 3 macro and 1 standard

**Wireless connectivity**
- Fluke Connect™ app compatible with Fluke Connect® WiFi SD Card

**Focus system**
- LaserSharp® Auto Focus, auto focus, manual focus, and EverSharp multifocal recording

**IR-Fusion® technology/Visible context**
- IR-Fusion® AutoBlend mode
- Picture-in-picture, color alarms (above and below user defined temperatures)

**Display**
- Extra-large 5.6 inch color TFT display, 1280 × 800 pixel resolution, Suitable for daylight operation

**Design**
- Camcorder with handle, Tiltable LCoS color viewfinder display for outdoor use, 800 × 600 pixel resolution

**Thermal sensitivity**
- ≤ 0.05 °C at 30 °C target temp (50 mK)
- ≤ 0.03 °C at 30 °C target temp (30 mK)

**Temperature measurement range**
- -40 °C to +1200 °C (-40 °F to 2192 °F)
  - High temperature option: up to 2000 °C (3632 °F)
- -40 °C to +1200 °C (-40 °F to 2192 °F)

**Frame rate**
- 30 Hz or 9 Hz versions
- 60 Hz or 9 Hz versions

**Subwindowing modes**
- Option 1: 640x480 (60 fps)
- Option 2: 384 x 288 (120 fps)
- Option 3: 1024 x 96 (240 fps)
- Option 1: 640x480 (60 fps)
- Option 2: 384 x 288 (120 fps)

**Software**
- SmartView® software and Fluke Connect™

**Voice annotation**
- Yes

**Text annotation**
- Yes

**Video recording**
- Standard and radiometric

**Streaming video (remote display)**
- Via HDMI; GigE Ethernet available in SmartView® software in 2015

**Remote control**
- Yes. Available in 2015

**Alarms**
- High-temperature, low-temperature, and isotherm color alarms

**Warranty**
- 2 years (standard), extended warranties are available

---

1 Fluke Connect™ not available in all countries
2 Add-on at time of order—subwindowing options are not available on 9 Hz models
Field swappable lenses can make your camera work better for your application. Capture spectacular images in challenging situations and gain greater insight through the use of a specialized lens. Super-wide angle to super telephoto and three macro lenses—when you need ultimate flexibility.

More lenses. More options. BETTER RESULTS.

Contact your local Fluke representative for more information on these REMARKABLE INFRARED CAMERAS.

See HD infrared in action at FLUKE.COM/HD
Fluke infrared cameras are ON THE JOB because they DO THE JOB.

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

- Industrial maintenance
- Utilities
  - Transmission and distribution
  - Generation
- Oil and gas predictive maintenance
- Research/development and quality control
  - Electrical
  - Mechanical
  - Medical
  - Biology/sciences

**PROFESSIONAL SERIES**
Professional in-house, contract and service thermographers who need superior quality images and advanced features and specifications for use in multiple applications.

- Industrial maintenance
- Heavy commercial facility maintenance
- Oil and gas maintenance
- Veterinary
- Reliability inspections

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

- Electrical
- HVAC
- Mechanical
- Home inspections
- Light commercial maintenance
- Building diagnostics
  - Building envelope
  - Commercial/industrial facilities

See HD infrared in Action at [FLUKE.COM/HD](http://www.fluke.com)

Fluke. Keeping your world up and running.