FLUKE®

Fluke infrared tools

Built for the toughest industrial environments

TEMPERATURE MEASUREMENT SOLUTIONS

Built for the toughest industrial environments

Get the infrared cameras that are built on 65+ years of industrial experience. Each camera is built without compromise to the Fluke standard of "ruggedness, reliability and accuracy". Designed for everyday use, in any environment for thorough and accurate inspections.

Choose from the affordable and versatile Performance Series, the Professional Series that offers superior image quality, or the Expert Series that gives you HD images on a large touchscreen.

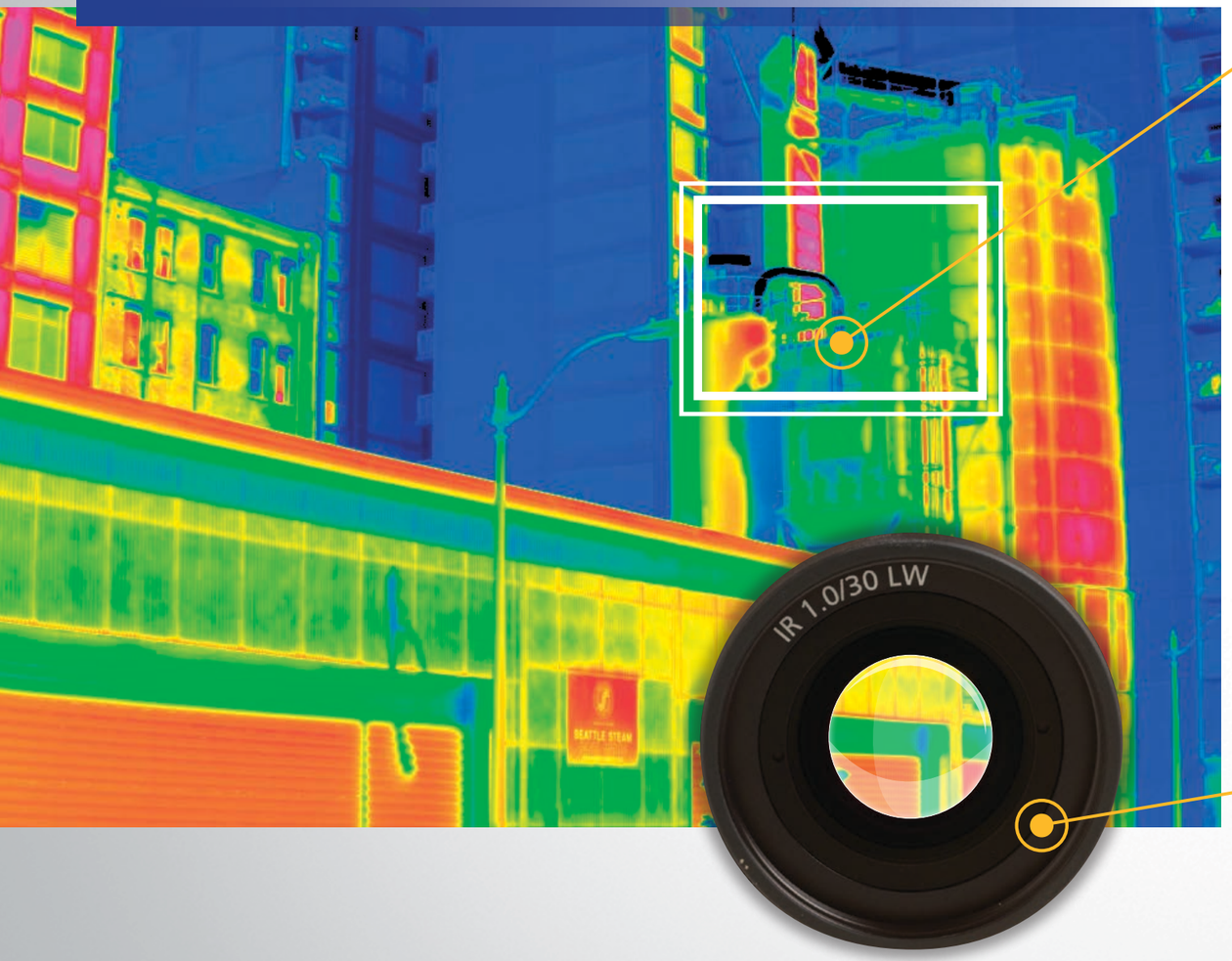
Contents:

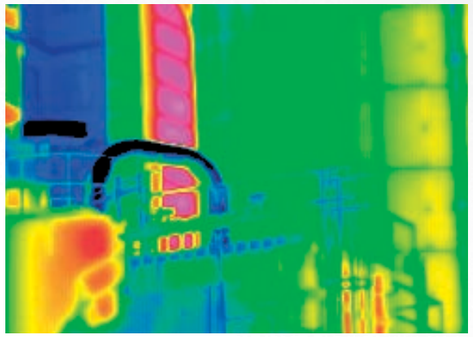
FLUKE®

Look beyond Pixels. You'll SEE THE DIFFERENCE.

Pixels are only part of the equation that determines infrared image quality.

IMAGE QUALITY = focus + optics + FOV + pixels





Premier focus technologies.

Getting in-focus images can be painstaking with manual focus systems, and some autofocus systems may not focus on your desired target. Fluke Professional and Expert Series cameras include some of the most innovative focus technologies available.

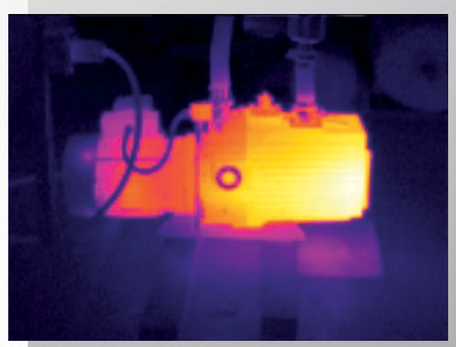
- Capture a clear, accurate image focused throughout the field of view with MultiSharp™ Focus. Simply point and shoot—the camera automatically processes a stack of images focused near and far
- Get an instant in-focus image of your designated target. LaserSharp® Auto Focus uses a built-in laser distance meter that calculates and displays the distance from your designated target with pinpoint accuracy—and immediately adjusts the focus

Simply the best optics.

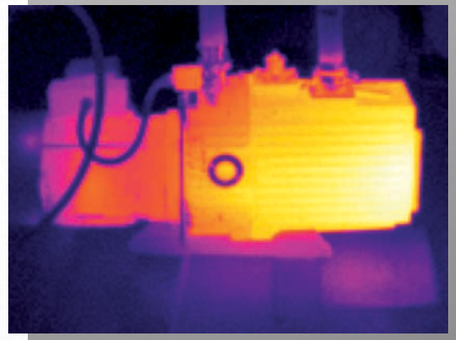
Fluke uses only 100% diamond-turned germanium lenses covered with a specialty coating. This is the most efficient available material to transmit energy to the detector to produce high quality infrared images.

How FOV (field of view) impacts image quality

We all know that detector resolution is imperative to image quality, but the level of detail that you can see in an image is also impacted by the field of view.



Resolution 160 x 120
FOV 31 ° x 22.5 °
D:S 295:1
Details in this image are a bit blurry due to the wider field of view that leads to a lower D:S.



Resolution 160 x 120
FOV 23 ° x 17 °
D:S 400:1
Same resolution, but the tighter field of view enables you to see more details in the target from the same distance.

Both images were taken with Fluke cameras at the same distance from the target.

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The future of infrared is here in STUNNING HD resolution.

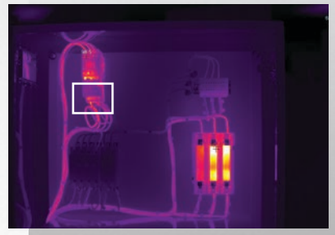
Your work as an expert thermographer is defined by the quality of the infrared images you take and your ability to analyze what's before you. The most pressing challenge lies not in analyzing what you see, but the fear of missing something you can't.

FLUKE CONNECT®

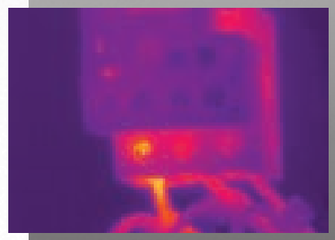
It's time to see what you're missing. Up to 3.1 million pixels with SuperResolution.

Instantly capture highly detailed images and start analyzing your images while still in the field. See incredible detail from a distance or extremely close up. On camera, you get up to 10x the pixels of a standard 320 x 240 camera (based on the TiX1000).

SuperResolution mode, available when viewed in Fluke Connect® software, lets you see HD resolution with up to 3.1 million pixels—4x the on-camera standard resolution.

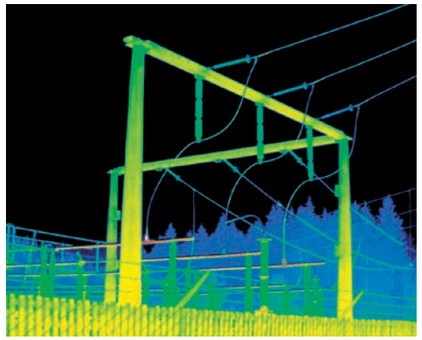


Full image, taken from 5 feet away with a TiX1000 infrared camera. The area shown in the white box is blown up below.



Regular resolution

Get 4x the pixels, and see incredible detail in your image with SuperResolution



The industry's most advanced focus options.

LaserSharp® Auto Focus[1] gives you the fastest way to precisely focused images by calculating the distance to your target with a laser distance meter[2].

EverSharp multifocal recording gives you edge-to-edge clarity of targets both near and far in one image, which is created by capturing multiple images from varying focal distances.

TiX1000/660/640/620

- Capture tough shots with a large 5.6 inch rotating LCD display
- Optimized for outdoor inspections with viewfinder that reduces outdoor glare[1]
- High temperature option up to 2000 °C
- Capture spectacular images close up or from a distance with your choice of seven optional lenses including 2x telephoto, 4x telephoto, wide angle, super wide angle, and 3 macro lenses (see page 23 for more information)[1]
- Identify rapid changes in temperature with the optional Subwindowing feature (up to 240 Hz)

[1]Features vary by model; see pages 26–27 for model specifications
[2]Compared to industrial infared cameras without a user-designated laser-focus feature

TABLET-SIZED SCREEN. More details. Faster decisions.

You need maximum flexibility with an ergonomic design that allows you to easily navigate over, under and around hard-to-reach objects. With a lens that rotates a full 240 degrees and a tablet-sized 5.7 inch touchscreen LCD, you can aim and focus from a comfortable angle and easily capture the target that was once impossible to see.

100 % Focused—Every object. Near and far.

Capture a clear, accurate image focused throughout the field of view with MultiSharp™ Focus. Be sure your images will be focused and high-quality when you go back to the office to view them, even when working outdoors with the possibility of glare on your screen. Simply point and shoot—the camera automatically processes a stack of images focused near and far.

See around obstacles.

Easily maneuver over, under and around objects with the 240° rotating lens while viewing the screen at a comfortable angle, unlike standard pistol grip cameras.

Manual focus

MultiSharp™ Focus

MultiSharp™ Focus produces an image focused throughout the field of view

TiX580/560/520/500

- See small details in the image and discover anomalies faster with up to 640 x 480 resolution images and the 5.7 inch tablet sized touchscreen
- Edit and analyze images on camera—edit emissivity, enable color alarms and markers, and adjust IR-Fusion® visual and infrared image blending
- Get 4x the pixel data with SuperResolution, to create up to 1280 x 960 images[1]
- Find subtle temperature differences easily—instantly improve thermal sensitivity to as low as 30 mK[1]
- Monitor processes with video recording, live video streaming, remote control[1], or auto capture
- Integrate temperature data, images and video into R&D analysis and reports with MATLAB and LabVIEW Tools Boxes[1]
- Collaborate from the field in real time by wirelessly syncing images directly from your camera to the Fluke Connect® app on your smartphone, and optimize, analyze and generate reports with the new Fluke Connect® SmartView® desktop software[2]

FLUKE CONNECT®

[1]Features vary by model; see pages 26–27 for model specifications

[2]Within your provider's wireless service area; Fluke Connect® is not available in all countries

Autofocus redefined. ON TARGET AND IN FOCUS. Every. Single. Time.

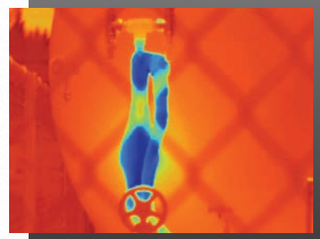
You're it when it comes to getting the right answers—there's no room for fuzzy, out-of-focus infrared images. Potential problems hide behind incorrect readings, which is why you need a camera with LaserSharp® Auto Focus for crisp, sharp images.

Precisely focused images.

If your image is out of focus, temperature measurements could be off by up to 20 degrees or more. Getting crisp images in manual focus takes time and careful attention. Patented LaserSharp® Auto Focus with laser driven target detection gives you an in-focus image of your designated target with the push of a button. The built-in laser distance meter instantly calculates and displays the distance to your target, and the focus engine immediately adjusts the focus.

Many inspection sites are challenging for certain autofocus systems.

Passive autofocus systems may only capture the near-field subject (fence).



Dot from red laser pointer confirms LaserSharp Auto Focus captures your target.

LaserSharp® Auto Focus gives you in-focus images with the push of a button.

Navigate easier than ever.

The Professional Series cameras have stunningly clear 3.5-inch, up to 640 x 480 high resolution responsive touch screens to easily spot problems, with intuitive controls to quickly navigate to the next image or switch modes. Plus, all camera features can be accessed one-handed—even with gloves—because of the large buttons.

Ti480/450/400/300

- Pistol grip form factor with up to 640 x 480 resolution for quick, point and shoot troubleshooting
- Capture clear, accurate images focused throughout the field of view with MultiSharp™ Focus[1]
- Get 4x the pixel data with SuperResolution, which captures multiple images and combines them to create up to 1280 x 960 images[1]
- Digitally document critical information with your infrared image using IR-PhotoNotes™, voice annotation, or text annotation
- Monitor processes with video recording, live video streaming, remote control[1], or auto capture
- Collaborate from the field in real time by wirelessly syncing images directly from your camera to the Fluke Connect® app on your smartphone, and optimize, analyze and generate reports with the new Fluke Connect® SmartView® desktop software[2]

[1]Features vary by model; see pages 26–27 for model specifications

[2]Within your provider's wireless service area; Fluke Connect® is not available in all countries

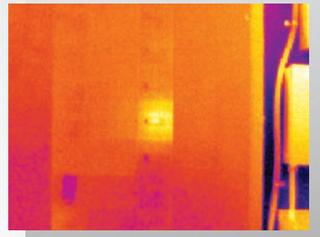
FLUKE CONNECT®

Rugged. Accurate. BUILT TO PERFORM.

You need quick, accurate infrared imaging in a rugged body. Get up to 320 x 240 resolution, so you can easily identify small details that could indicate a big problem.

Precisely blended images offer more detail.

Image quality is everything when it comes to quickly analyzing infrared images. You need the right level of detail in your infrared image to pinpoint specific areas of concern. Fluke Performance Series IR cameras blend visible light and infrared images using patented IR-Fusion® technology[1] to capture a clear 5MP real-world picture of your target. Blend at different preset levels and add picture-in-picture (PIP) to capture an incredibly revealing hybrid image.



Full IR

50 % Blending , picture-in-picture mode

50 % Blending, cropped in to see detail

Easily read the breaker label with IR-Fusion® precisely blended visible and infrared images.

Designed for your environment.

See potential problems easily with the large 3.5 inch LCD screen. The rugged, one-handed design (right or left handed) helps you work up a ladder or in virtually any environment and leaves one hand free.

TiS75/S65/S60/S55/S50/S45/S40/S20/S10

- Get precisely focused images from as close as 15 cm (6 in) with manual focus, or choose fixed focus for faster images without the need to focus from 45 cm (1.5 ft) and beyond
- Monitor your battery charge and avoid an unexpected loss of power with the smart battery's LED charge indicator
- Get easy access to saved images with a removable SD card
- Digitally document critical information such as the location of the equipment or the motor nameplate with the infrared image using IR-PhotoNote™ or voice annotation[1]
- Collaborate from the field in real time by wirelessly syncing images directly from your camera to the Fluke Connect® app on your smartphone, and optimize, analyze and generate reports with the new Fluke Connect® SmartView® desktop software [1,2]

[1]Features vary by model; see pages 26–27 for model specifications

[2]Within your provider's wireless service area; Fluke Connect® is not available in all countries

FLUKE CONNECT®

SOFTWARE for Fluke infrared cameras

In the field or the office, get the software solutions that make it easy for you to optimize, analyze and share infrared images, and create reports.

Fluke Connect® Mobile App

Wirelessly sync images directly from your camera to the Fluke Connect® system. Email images to colleagues from the field to collaborate in real time. Edit and analyze images and generate reports on the go.

Download the free app by searching "Fluke Connect" in the Apple or Android app store

Fluke Connect® Smartview® software for your desktop.

Powerful, new Fluke Connect® Smartview® software for your Windows desktop computer makes it easy to optimize images, perform advanced analytics, generate quick, customizable reports and export images to the format of your choice. A comprehensive and connected software platform that represents the future of integrated equipment maintenance

Download free at www.fluke.com/flukeconnectti

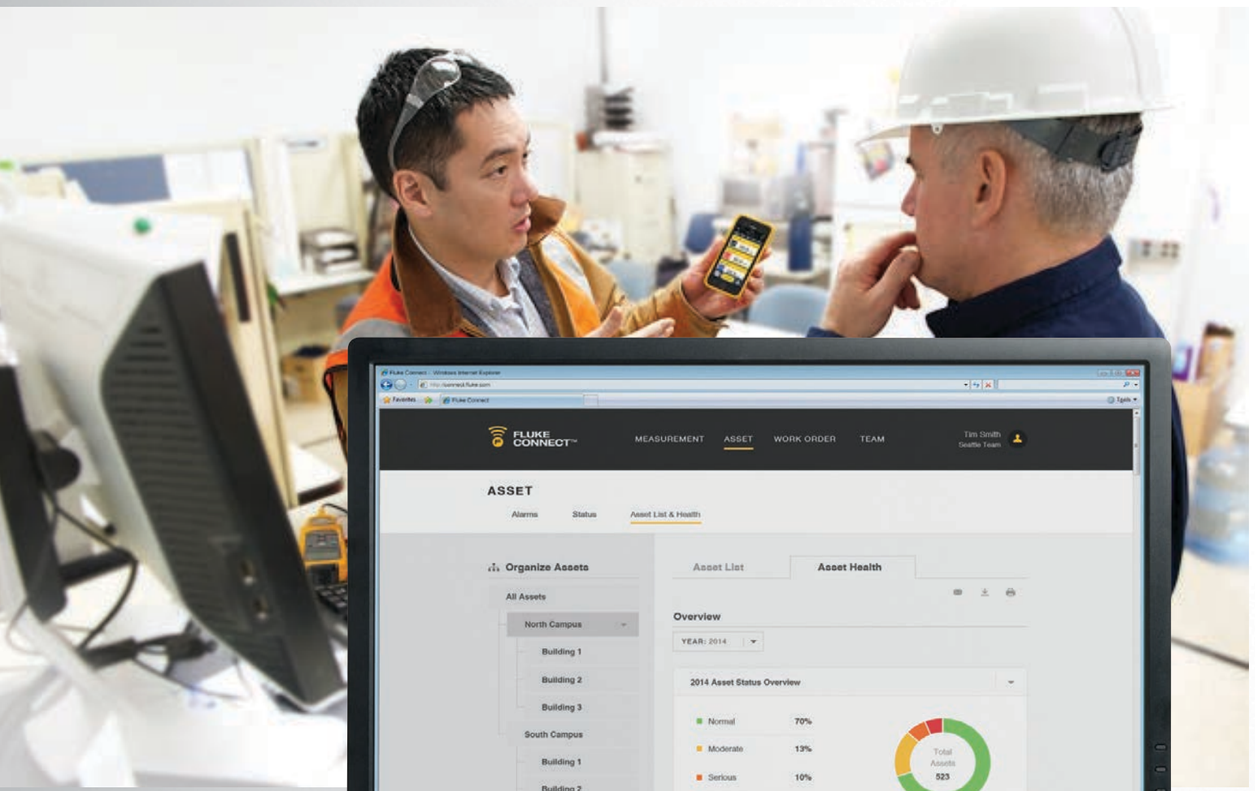
Fluke thermal imaging software features at a glance

	Fluke Connect® Smartview® Desktop Software	Fluke Connect® Mobile App
Download and view thermal images	•	•
Share images and measurements with remote team members		•
Adjust level and span, IR Fusion® blending, and color palettes	•	•
Add and edit markers and color alarms	•	•
Add text, audio, and photo annotations	•	•
Export radiometric .is2 images in BMP, JPG, PNG, GIF, and TIFF format	•	•
Create thermal imaging reports and export as PDFs	•	•
Export temperature data in CSV or XLS format	•	

Fluke Connect® SmartView® analysis and reporting software is available in all countries but Fluke Connect system is not. Please check availability with your authorized Fluke distributor.

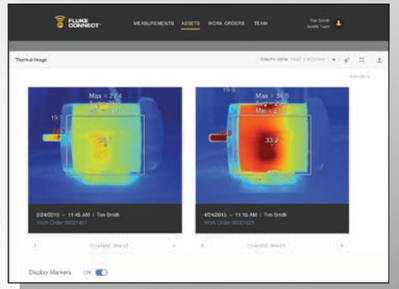
Preventive maintenance SIMPLIFIED. Rework eliminated.

Set up and sustain preventive maintenance practices with ease with Fluke Connect® Assets software and wireless-enabled test tools. Maximize uptime and make confident maintenance decisions with data you can trust and trace.

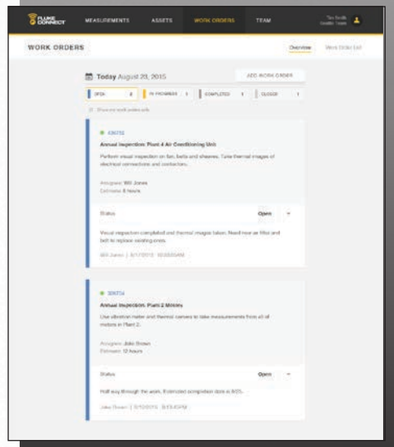


Manage assets and work orders

Expanding the features of the Fluke Connect® mobile app, Fluke Connect® Assets is a subscription-based software for managing your assets and work orders. This is the only system that allows you to attach an image from your Fluke infrared camera directly to an asset record or work order.



Asset Analysis dashboard: Easily compare complex data



Get a complete view of your work order status in your facility

Improve your ability to prevent or predict failures

Easily compare all measurement types—whether mechanical, electrical or infrared—from one location. Spot anomalies as they emerge and compare to historical and baseline views to instantly see concerns and deploy resources as needed.

Fluke Connect® Assets

- Assign infrared images to an asset and view changes in your equipment over time
- Generate work orders that include measurements and infrared images to provide more complete information to your maintenance teams
- Create and view work order history from anywhere
- Reduce your paperwork, increase your efficiency
- Minimal investment and setup time needed

Start your free trial at connect.fluke.us and download the free Fluke Connect app.

Download the phone app at:

Download on the App Store

ANDROID APP ON Google play

Fluke Connect® SmartView® analysis and reporting software is available in all countries but Fluke Connect system is not. Please check availability with your authorized Fluke distributor.

CHANGE THE WAY you see digital multimeters

Combining a full-featured digital multimeter with integrated thermal imaging, the 279 FC thermal multimeter helps you find, repair, validate, and report many electrical issues quickly so that you are confident problems are solved.

FLUKE CONNECT

279 FC/279 FC iFlex

- Locate the problem immediately with an 80 x 60 infrared image (non-radiometric) and center-point temperature measurement
- Full-featured digital multimeter has 15 measurement functions including: ac/dc voltage, resistance, continuity, capacitance, diode test, min/max, ac current (with iFlex®), frequency
- Full-color 3.5 inch LCD screen provides clean, crisp readings
- Rechargeable lithium ion battery allows for a for a full work day (10+ hours) and auto power off saves battery power
- Transmit results wirelessly with the Fluke Connect® system
- iFlex® option expands your measurement capabilities so you can get into tight, hard to reach spaces for current measurement (up to 2500 A ac)

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Designed to SEE IT ALL.

Say good-bye to spot-by-spot readings. An infrared heat map superimposed over a visual image provides the context you need to clearly see temperature-related issues—priced to outfit the whole team.

VT04/VT04A

- Handy when you need it; easily fits in your tool bag or pocket
- Intuitive enough to use right out of the box
- Easily access saved images with the removable SD card
- Save in .bmp format when you only want the image, or choose .is2 format so you can optimize images and create reports in SmartView® software (available for download at www.fluke.com/vtsmartview)
- Protect your visual IR thermometer with the included hard case (VT04) or soft case (VT04A)
- Choose your preferred way of powering your visual IR thermometer: a rechargeable Li-ion battery (VT04) or 4 AA batteries (VT04A)

For FAST, EASY, DEPENDABLE readings, these are the go-to tools.

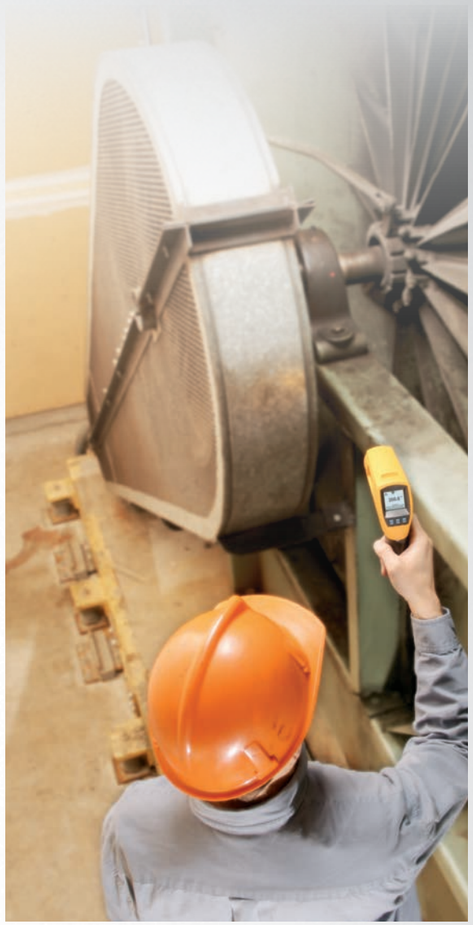
For a quick temperature reading, it doesn't get much easier than an IR Thermometer from Fluke. So rugged and fast you'll always want to keep it with you.

Quick and simple measurements

With a start-up time of a mere second, you'll never have to wait on your tool. Simply pull the trigger and instantly get a spot measurement. Laser guides show where you're measuring, and dual lasers on some models indicate the area the measurement is based on.

Rugged, ready and reliable

You have a tough job. Tough on you and your tools. That's why Fluke IR thermometers are ready for action even in harsh conditions—tested to withstand dust and water with an IP54 rating[1]. Some can even survive a 3 meter drop[1]. For rugged reliability, it's tough to beat Fluke.



572-2/568/62 MAX+

- Measure accurately from farther away with up to a 60:1 distance to spot ratio (*572-2* 60:1, *568* 50:1, *62 MAX+* 12:1)
- Measure temperatures up to 900 °C (1652 °F) (*572-2* -30 °C to +900 °C (-22 °F to +1652 °F), *568* -30 °C to +800 °C (-22 °F to +1472 °F), *62 Max+* -30 °C to +650 °C (-22 °F to +1202 °F)
- Save time with available onboard, downloadable data storage of temperature readings (572-2 and 568 models)
- Get contact measurement with 2-in-1 IR thermometers (572-2 and 568 models)
- Intrinsically safe model available for use in hazardous environments including oil and gas (568 Ex). See 568 Ex product page on Fluke website for details
- Identify the area you're measuring with dual-laser sighting on the 572-2 and the 62 Max+ or with single-laser sighting on the 568
- Get alerts when a temperature is outside the expected range with high and low alarms on all three models and continuous monitoring on the 572-2 and 568
- Get a three-year warranty with the 62 Max+ (572-2 and 568 have a two-year warranty)

[1]Testing was done on the 62 Max and 62 Max+

SEE the impossible.

Telephoto, wide angle and macro lenses can make it possible to inspect targets that would be challenging to see with a standard infrared lens due to their size and distance. Smart lenses don't require calibration to a specific camera, and they can be interchanged between compatible cameras—so you avoid the hassle of sending in your camera to calibrate to the lens, and you can share one lens between multiple cameras (see chart for compatibility).

See www.fluke.com/irlens for more information.

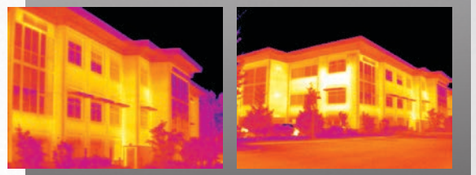
Telephoto lenses

The difference between finding and potentially diagnosing the problem, and not seeing any discrepancy at all. Get the detail you need, even from a distance, when you view your target magnified 2 or 4 times more than a standard lens.

Standard (left), 2x telephoto (center) and 4x telephoto (right)—see the right level of critical infrared detail

Wide angle lenses

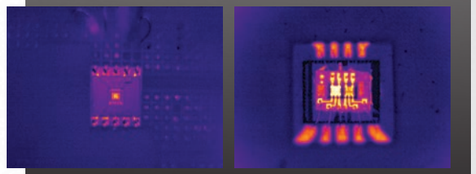
When working in a tight space, see a larger target from a close distance. Ideal for roof and building inspection or for looking through IR Windows.



Standard lens (left) and wide lens (right)—see both sides of the building at once from the same distance

Macro lenses

Get an incredibly detailed image of very small objects—as small as 25 microns, smaller than the average human hair.



Standard (left) and 25 micron macro lens (right)—see detail in very small objects

Lens to camera compatibility

Lens type	Use for	Applications	TiX1000/ 660/640	TiX620	TiX580	TiX560/ 520/500	TiX480	Ti450/ 400/300
2x telephoto	Small to medium sized target, viewed from a distance	• Maintenance, electrical, and process technicians—when equipment is too high, difficult to reach, or unsafe to approach • Building inspection—see fine detail from a distance	XLens/ Tele	XLens/ Tele	TELE2 smart lens	TELE2 smart lens	TELE2 smart lens	TELE2 smart lens
4x telephoto	Small target, viewed from a great distance	• Petrochemical—tall stacks • Power utilities generation and transmission—long distances • Metallurgy and metals refinement—too hot to approach; may have equipment near refinery that needs inspection	XLens/ SupTele			4XTELE2 smart lens		4XTELE2 smart lens
Wide angle	Large target, viewed from a relatively close distance	• Maintenance, electrical, and process technicians—when working in a tight space or needing to view a large area • Building inspectors—for roofing and industrial building inspections, save time by seeing a much greater area at once	XLens/ Wide XLens/ SupWide	XLens/ Wide	WIDE2 smart lens	WIDE2 smart lens	WIDE2 smart lens	WIDE2 smart lens
Macro	Tiny to micro-scopic target, viewed from extremely close	• Research and development • Electronics design and validation • Microscopic thermography	XLens/ Macro1 XLens/ Macro2 XLens/ Macro3			25MAC2 25 micron smart lens		

Increase the SAFETY and SPEED of your electrical infrared inspections.

A company's greatest investment is not the equipment that's behind the panel door. It's the electricians, engineers and inspectors who risk their lives every day doing their jobs.

CV400/401/300/301/200/201

- Highest arc blast safety rating available—63 kA when properly installed
- Under 5 minute installation with 1 person; no need to remove panel door
- Available in 2 inch (50 mm), 3 inch (75 mm), and 4 inch (95 mm) sizes with convenient ¼ turn access or security key access options
- Clearly view equipment both visually and thermally with ClirVu® coating that protects the optic from the elements
- Corrosion and UV resistant for challenging outdoor environments—IP67 rugged

FLUKE®

EXPAND the capabilities of your infrared camera.

Batteries and chargers

Expand your powering capabilities with an extra battery, charging base or car charger. All Fluke Professional and Performance series cameras feature interchangeable smart batteries. With the LED charge indicator, monitor your battery charge and avoid an unexpected loss of power with a push of a button.

Product	Description	Compatibility
SBP3	Rechargeable lithium-ion smart battery	Professional series, Performance series
SBP4	Rechargeable lithium-ion smart battery	Expert series (TiX580, TiX560, TiX520, TiX500)
SBC3B	Battery charging base	Expert series (TiX580, TiX560, TiX520, TiX500), Professional series, Performance series
TI-CAR CHARGER	Car charger	Expert series (TiX580, TiX560, TiX520, TiX500), Professional series, Performance series

Tripod mounts

Get sharp, steady images by attaching your camera to a tripod with a tripod mount (TRIPOD3), compatible with Professional and Performance series models. Set your camera to auto-capture to get multiple shots of the same target. The expert series cameras have built-in tripod mounts.

Sun visors

No need to squint when working outside. Get a sun visor (VISOR3) for your Professional series camera to reduce screen glare.

Additional accessories are available for the Expert series (TiX1000, TiX660, TiX640, TIX620). See www.fluke.com/TIX1000 for details.

See www.fluke.com for availability of accessories for older models.


SBP3 rechargeable battery


SBP4 rechargeable battery


Battery charging base


Car charger


Tripod mount


Sun visor

SPECIFICATIONS

	Expert Series Thermal Imagers								Professional Series Thermal Imagers				Performance Series Thermal Imagers					
	TiX1000	**TiX660**	**TiX640**	**TiX620**	**TiX580**	**TiX560**	**TiX520**	**TiX500**	**Ti480**	**Ti450**	**Ti400**	**Ti300**	**TiS75**	**TiS65/60**	**TiS55/50**	**TiS45/40**	**TiS20**	**TiS10**
IFOV (spatial resolution)	0.6 mRad	0.8 mRad	0.8 mRad	0.85 mRad	0.93 mRad	1.31 mRad			0.93 mRad	1.31 mRad		1.75 mRad	2.0 mRad	2.4 mRad	2.8 mRad	3.9 mRad	5.2 mRad	7.8mRad
Detector resolution	1024 x 768 (786,432 pixels) SuperResolution mode: 2048 x 1536 (3,145,728 pixels)	640 x 480 (307,200 pixels) SuperResolution mode: 1280 x 960 (1,228,800 pixels)	640 x 480 (307,200 pixels) SuperResolution mode: 1280 x 960 (1,228,800 pixels)	640 x 480 (307,200 pixels) SuperResolution mode: 1280 x 960 (1,228,800 pixels)	640 x 480 (307,200 pixels) SuperResolution mode: 1280 x 960 (1,228,800 pixels)	320 x 240 (76,800 pixels) SuperResolution mode: 640 x 480 (307,200 pixels)			640 x 480 (307,200 pixels) SuperResolution mode: 1280 x 960 (1,228,800 pixels)	320 x 240 (76,800 pixels) SuperResolution mode: 640 x 480 (307,200 pixels)	320 x 240 (76,800 pixels)	240 x 180 (43,200 pixels)	320 x 240 (76,800 pixels)	260 x 195 (50,700 pixels)	220 x 165 (36,300 pixels)	160 x 120 (19,200 pixels)	120 x 90 (10,800 pixels)	80 x 60 (4,800 pixels)
Field of view	32.4 °H x 24.7 °V	30.9 °H x 23.1 °V		32.7 °H x 24.0 °V	34 °H x 24 °V	24 °H x 17 °V			34 °H x 24 °V	24 °H x 17 °V			35.7 °H x 26.8 °V					
Optional lenses	2 wide angle, 2 telephoto, 3 macro and 1 standard			1 wide angle and 1 telephoto	Pre-calibrated smart optional lenses – TiX560, TiX520, TiX500: 2x and 4x telephoto, wide angle, 25 micron macro TiX580: 2x telephoto and wide angle				Pre-calibrated smart optional lenses – Ti450, Ti400, Ti300: 2x and 4x telephoto, wide angle Ti480: 2x telephoto, wide angle				–					
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[1]													
IR-Fusion®	AutoBlend™ mode, continuous blending						AutoBlend™ mode						5 presets (0 %, 25 %, 50 %, 75 %, 100 %)				3 presets (0 %, 50 %, 100 %)	–
Picture-In-Picture (PIP)	Picture-in-Picture												5 presets (0 %, 25 % ,50 %, 75 %, 100 %)				–	
Focus system	LaserSharp® Auto Focus, auto focus, manual focus, and EverSharp multifocal recording		Auto focus, manual focus, and EverSharp multifocal recording		MultiSharp™ Focus, 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		Manual focus	Manual focus (TiS65), Fixed focus (TiS60)	Manual focus (TiS55), Fixed focus (TiS50)	Manual focus (TiS45), Fixed focus (TiS40)	Fixed focus	
Display	Extra-large 5.6 inch color TFT display, 1280 x 800 pixel resolution, suitable for daylight operation				5.7 inch touchscreen LCD, 640 x 480 pixel resolution				3.5 inch touchscreen LCD, 640 x 480 pixel resolution				3.5 inch (landscape) 320 x 240 LCD					
Design	Camcorder with handle, Tiltable LCoS color viewfinder display, 800 × 600 pixel resolution		Camcorder		Ergonomic design with a 240 degree rotating lens				Rugged, ergonomic design for one-handed use				Rugged, lightweight, ergonomic design for one-handed use					
Thermal sensitivity*	≤ 0.05 °C at 30 °C target temp (50 mK)	≤ 0.03 °C at 30 °C target temp (30 mK)		≤ 0.04 °C at 30 °C target temp (40 mK)	≤ 0.05 °C at 30 °C target temp (50 mK)	≤ 0.03 °C at 30 °C target temp (30 mK)	≤ 0.04 °C at 30 °C target temp (40 mK)	≤ 0.05 °C at 30 °C target temp (50 mK)	≤ 0.05 °C at 30 °C target temp (50 mK)	≤ 0.03 °C at 30 °C target temp (30 mK)	≤ 0.05 °C at 30 °C target temp (50 mK)		≤ 0.08 °C at 30 °C target temp (80 mK)			≤ 0.09 °C at 30 °C target temp (90 mK)	≤ 0.10 °C at 30 °C target temp (100 mK)	≤ 0.15 °C at 30 °C target temp (150 mK)
Temperature measurement range	–40 °C to +1200 °C (–40 °F to +2192 °F) High temperature option—request at time of order: up to 2000 °C (3632 °F)			–40 °C to +600 °C (–40 °F to +1112 °F) High temperature option—request at time of order: up to 2000 °C (3632 °F)	–20 °C to +800 °C (–4 °F to +1472 °F)	–20 °C to +1200 °C (–4 °F to +2192 °F)	–20 °C to +850 °C (–4 °F to +1562 °F)	–20 °C to +650 °C (–4 °F to +1202 °F)	–20 °C to +800 °C (–4 °F to 1472 °F)	–20 °C to +1200 °C (–4 °F to +2192 °F)		–20 °C to +650 °C (–4 °F to +1202 °F)	–20 °C to +550 °C (–4 °F to +1022 °F)		–20 °C to +450 °C (–4 °F to +842 °F)	–20 °C to +350 °C (–4 °F to +662 °F)	–20 °C to +350 °C (–4 °F to +662 °F)	–20 °C to +250 °C (–4 °F to +482 °F)
Frame rate	30 Hz or 9 Hz versions	60 Hz or 9 Hz versions		30 Hz or 9 Hz versions	60 Hz or 9 Hz versions								30 Hz or 9 Hz versions	30 Hz or 9 Hz versions (TiS65), 9 Hz (TiS60)	30 Hz or 9 Hz versions (TiS55), 9 Hz (TiS50)	330 Hz or 9 Hz versions (TiS45), 9 Hz (TiS40)	9 Hz	
Subwindowing modes available: (add-on at time of order—subwindowing options are not available on 9 Hz models)	Option 1: 640 × 480 (60 fps) Option 2: 384 × 288 (120 fps) Option 3: 1024 × 96 (240 fps)	Option 1: 384 × 288 (120 fps) Option 2: 640 × 120 (240 fps)		384 × 288 (60 fps)	–													
Software	Fluke Connect® (web, mobile and Fluke Connect® SmartView® desktop)																	
Voice annotation	60 seconds maximum recording time per image, reviewable playback on camera; Bluetooth headset provided (where available)								60 seconds maximum recording time per image; reviewable playback on camera; optional bluetooth headset available but not required				60 seconds maximum recording time per image, reviewable playback on camera; Bluetooth headset available separately (where available)				–	
Text annotation	Yes												–					
Video recording	Standard and radiometric															–		
Streaming video (remote display)	Via HDMI; GigE Ethernet available in SmartView® software				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® Smartview® software on a PC; via WiFi hotspot to the Fluke Connect® app on a smartphone; or via HDMI to a TV monitor								Yes, to Fluke Connect® Smartview® desktop software or mobile app			–		
Remote control operation	Yes				Yes, through Fluke Connect® Smartview® desktop software or mobile app	–			Yes, through Fluke Connect® Smartview® desktop software or mobile app				–					
Alarms	High temperature, low temperature, and isotherms (within range)															High temperature, low temperature	–	
Warranty	Two-years (standard), extended warranties are available																	

*Best possible.
[1]Within your provider's wireless service area; Fluke Connect® is not available in all countries.

FLUKE®

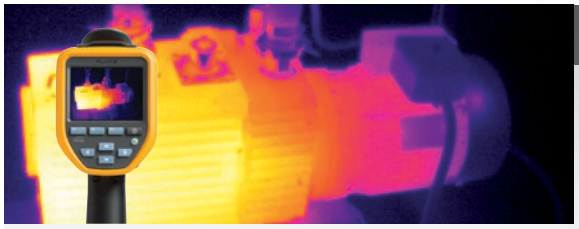
Fluke infrared tools are on the job because they do the job.

Expert Series

When you cannot be wrong, the Expert Series offers extremely detailed images. Plus, view images on a large, rotating, touchscreen display.

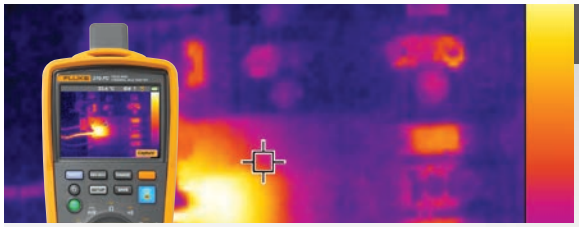
Professional Series

Focus with laser speed and accuracy on your designated target with LaserSharp® Auto Focus. Get highly detailed images and advanced features.



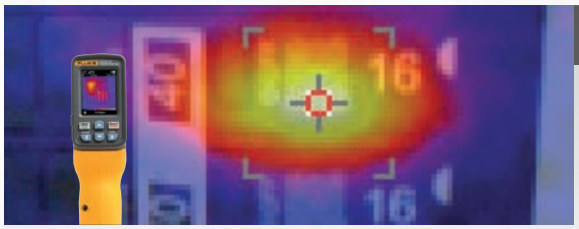
Performance Series

Get detailed images in an affordable infrared camera that's rugged and reliable. The perfect tool for a quick inspection.



Thermal Multimeter

A full-featured digital multimeter with integrated thermal imaging



Visual IR Thermometer

An infrared heat map with hot and cold markers reveals potential areas of concern. See issues in context by blending the heat map with a visual image.

IR Thermometer

Get a quick temperature reading, even from a distance, with up to a 60:1 distance to spot ratio and a start-up time of a mere second.

Questions?
Contact your local Fluke representative for more information, or go to our website and request your free product demonstration.

Fluke training
Between our online videos and seminars, and live classes with our training partner, The Snell Group, you can continue to grow as a thermographer and infrared technician.

Fluke. *Keeping your world up and running.®*

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