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Series

Proven
Practical
Performance

FLUKE

Thermal Imagers

## Six amazing models. One trusted name.

The Fluke P3 Series For Industrial & Electrical For Building Diagnostics





Proven **Practical** Performance

The only thing that precedes Fluke's high standards of quality is our reputation for making the finest measurement tools in the world. Fluke thermal imagers are no exception. And, the P3 Series handily delivers on the promise to offer the most tool for the money.



## The P<sup>3</sup> Series—Superior, not Superfluous

Fluke is how other tools are measured.

## Superior image quality

Industry-leading thermal sensitivity and spatial resolution combined with a high definition display, creates the sharpest images in the industry.

### One-handed, easy-to-use interface

With just a push of your thumb, go from one handed manual smart focus to adding picture-in-picture and even add comments in your own voice.

#### Torture tested™

Before a Fluke goes into your hands, we drop it from ours. Only Fluke thermal imagers are designed from the inside out to withstand a 6.5' drop.



## Fluke IR-Fusion®

(Picture-in-picture and auto blending)

Precision visible and IR image alignment allows Fluke to offer the only oncamera blended infrared and visible image to better diagnose issues.

## It isn't advanced if it isn't Easy to Use

The greatest technological advancement in thermography may be how Fluke has made it so simple to capture images and analyze data right out of the box.

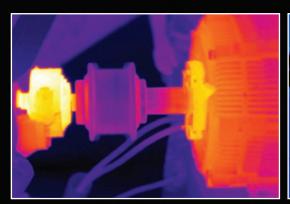
## Interchangeable lenses

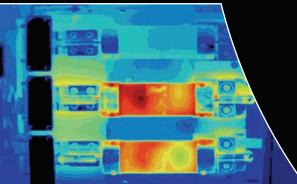
Interchangeable wide-angle and IR-Fusion compatible telephoto lenses to cover any application.

## Fluke set the standard for Superior Image Quality

Trust your eyes. That's where you see the difference between the quality of Fluke resolution versus our competitors'. The easier it is to see the problem, the easier it is to provide solutions. Fluke starts with a large 3.7" display (640x480 resolution) with full VGA color and LCD display.

Even the smallest temperature difference can indicate a big problem, or at least the start of one. Fluke integrates the P³ Series with industry-leading thermal sensitivity and spatial resolution to create the sharpest images in the industry.







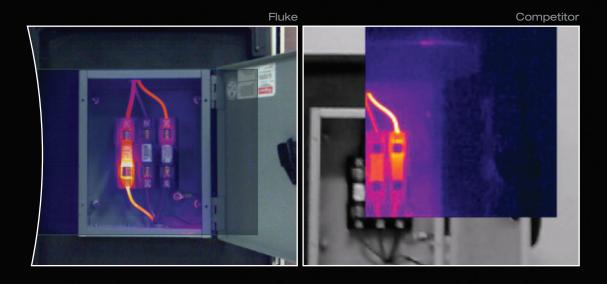






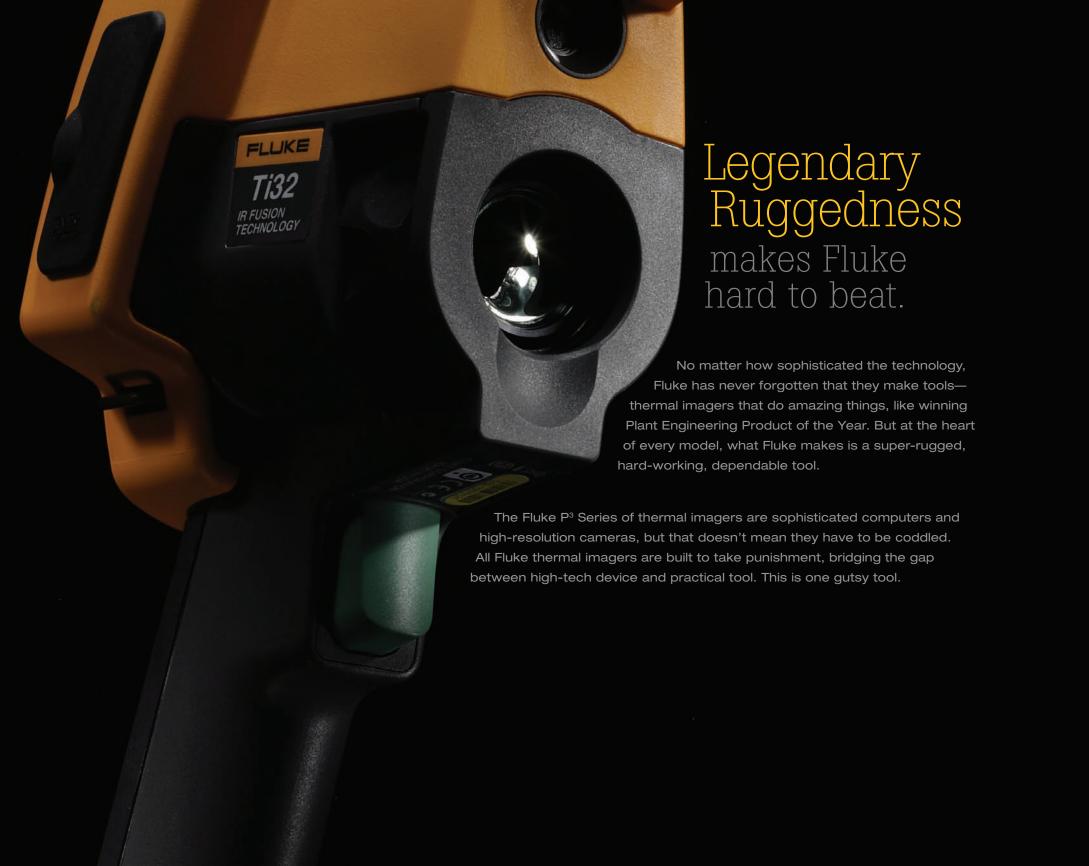
## A passion for precision

## Creates Fluke IR-Fusion®



No other manufacturer can boast on-camera blending. Compare the images above. Only Fluke has mastered the ability to create the industry's only transparent, perfectly blended and aligned visible and infrared images.







- Drop packaged product on each face, corner, and edge (8 corners, 6 sides, 12 edges) from approximately one meter onto a steel base.
- Drop the unpackaged unit from 2 meters; 6 drops on each face of the unpackaged unit.

Not just tested,

- Subject the unit to extensive vibration for 30 minutes, (10 Hz-500 Hz, at 0.03 g<sup>2</sup>/Hz - equivalent to ~ 4.8 g rms) on three perpendicular axes.
- Bombard the unit with electromagnetic fields and radio frequency emissions per EN61326-1:2006 to see if the readings change.

- Spray the unit with water at 10 liters/minute with a pressure of 100 kN/m2 and also test sealed joints from dust ingress.
- Run the product at temperatures down to -10 °C and up to 50 °C and verify that the product operates within specifications.
- Run the product and add humidity, up to 95 % at up to 40 °C, and run the tests again.
- Simulate sending the unit 12,000 meters (7 miles) in altitude and verify that the product still functions properly.



"If given a choice, I don't know any engineer who wouldn't rather own Fluke."

## The first solution Is Finding the Problem



Industrial, mechanical. electro-mechanical and general building maintenance.



Process, refractory insulation, tank and vessel levels, steam systems and traps, pipes and valves, etc.



Electrical, unbalanced loads, overloaded systems, wiring mistakesor component failure, etc.

Finding a potential problem before it becomes a costly disaster shows you just how much a Fluke thermal imager can save you in time, money and even lives. From a safe distance, you can quickly and accurately scan a large area for temperature differences, whether the objects are moving, out-of-reach, too hot or too risky to be near.

Whether you're checking for bad steam traps, load imbalances or overheating bearings, Fluke P3 Series of thermal imagers keep the promise of performance. Dependability is the benchmark by which all tools should be measured. That's why, for more than 60 years, experienced industrial and electrical professionals have turned to Fluke to do the job that needs doing.

**Ti27 Ti29 Ti32** • 240x180 IR resolution • 280x210 IR resolution • 320x240 IR resolution • 43,200 total IR pixels • 58,800 total IR pixels • 76,800 total IR pixels

# For building diagnostics, it's not a question of why anymore. It's a Question of When



Energy audit, building inspection and weatherization.



Restoration, water damage and roofing.



Building problems, defects and general maintenance. The more aware your customers become of thermography, the more they'll demand it. Whether you're searching for energy waste, leaky roofs or moisture problems, Fluke P<sup>3</sup> Series thermal imagers offer tested and proven game-changing technology that takes the guesswork out of finding problems and provides solutions.

The highest resolution. The greatest durability. The easiest to use. Advantage Fluke. Advantage you.

#### Fluke P<sup>3</sup> Series and the art of persuasion.

Telling someone they have a problem is not nearly as convincing as proving your point with a colorful, high-resolution thermal image. To make things even clearer, our pioneering IR-Fusion® lets you show both infrared and normal light images in the same picture, so you have a frame of reference that should convince even the most skeptical customers.

TiR29

TiR32

• 240x180 IR resolution
• 43,200 total IR pixels

• 58,800 total IR pixels

• 76,800 total IR pixels



"It's building a new level of trust with my customers while it's building my bottom line."

# After More Than 60 Years, giving you more than your money's worth is still a fresh idea.

The axiom what you see is what you get is meant to reveal honesty, but too often, it's what you don't see that could cost you later. Fluke's idea of value is making sure you get your money's worth and a little bit more. What others call "extras" and charge extra for, we make sure they're part of the Fluke package. That's why every Fluke comes with the most impressive set of standard features in the industry and is backed by the kind of service and support that's kept this company a leader for over six decades. With Fluke, what you see and what you get is quite honestly more.

|                                       | INDUSTRIAL MODELS   |   |   | BUILDING DIAGNOSTICS MODELS   |   |   |
|---------------------------------------|---|---|---|---|---|---|
|                                       | Ti27  | Ti29  | Ti32  | TiR27   | TiR29   | TiR32   |
| Detector Resolution                   | 240x180   | 280x210   | 320x240   | 240x180   | 280x210   | 320x240   |
| Total Pixels                          | 43,200  | 58,800  | 76,800  | 43,200  | 58,800  | 76,800  |
| Thermal Sensitivity (NETD)            | ≤ 0.05 °C at 30 °C target temp (50 mK)  | ≤ 0.05 °C at 30 °C<br>target temp (50 mK)                                     | ≤ 0.045 °C at 30 °C target temp (45 mK)                                       | ≤ 0.045 °C at 30 °C target temp (45 mK)                                       | ≤ 0.045 °C at 30 °C target temp (45 mK)                                       | ≤ 0.040 °C at 30 °C target temp (40 mK)                                       |
| Optional Lenses                       | Telephoto &<br>Wide angle   |
| Temp Measurement Range                | -20 °C to 600 °C  | -20 °C to 600 °C  | -20 °C to 600 °C  | -20 °C to 150 °C  | -20 °C to 150 °C  | -20 °C to 150 °C  |
| Display Size                          | 3.7" diagonal LCD   |
| Display Resolution                    | 640x480   | 640x480   | 640x480   | 640x480   | 640x480   | 640x480   |
| Accuracy                              | ± 2 °C or 2 %<br>(at 25 °C nominal,<br>whichever is greater)                  | ± 2 °C or 2 %<br>(at 25 °C nominal,<br>whichever is greater)                  | ± 2 °C or 2 %<br>(at 25 °C nominal,<br>whichever is greater)                  | ± 2 °C or 2 %<br>(at 25 °C nominal,<br>whichever is greater)                  | ± 2 °C or 2 %<br>(at 25 °C nominal,<br>whichever is greater)                  | ± 2 °C or 2 %<br>(at 25 °C nominal,<br>whichever is greater)                  |
| Spatial Resolution (IFOV)             | 1.67 mRad   | 1.43 mRad   | 1.25 mRad   | 1.67 mRad   | 1.43 mRad   | 1.25 mRad   |
| Focus Mechanism                       | Manual, one-handed<br>Smartfocus  |
| Frame Rate                            | 9 Hz or 60 Hz   |
| Color Palettes                        | 16 (8 standard,<br>8 ultra-contrast)  |
| Temperature Alarms<br>(Color/Audible) | Color Alarm<br>(High temp)  | Color Alarm<br>(High temp)  | Color Alarm<br>(High temp)  | Color Alarm<br>(Low temp/Dewpoint)  | Color Alarm<br>(Low temp/Dewpoint)  | Color Alarm<br>(Low temp/Dewpoint)  |
| Voice Annotation                      | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |
| IR-Fusion                             | FULL IR, PIP, and<br>Auto Blending  |
| Battery (operating time)              | 2 L-ion replaceable<br>(4+ hours each)<br>rechargeable and<br>field swappable |
| Drop Test (ruggedness)                | 2 meter   |
| Standard Warranty                     | 2 years   |

#### SmartView®

#### The industry's most generous software package.

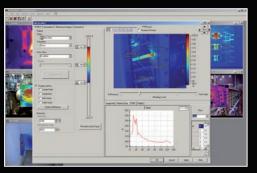
Compare Fluke's software to our competition's software and it's clear that Fluke doesn't leave you wanting. While others have been known to charge up to \$2,000 in additional software fees, Fluke's award-winning software package is standard.

#### Free upgrades. Free to share.

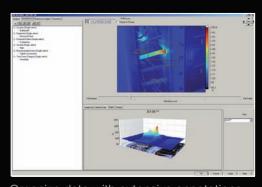
Unlike other manufacturers, Fluke doesn't charge you for software upgrades. They're free for the life of the product. And, Fluke doesn't tie your hands with licensing agreements that keep you from sharing with others.

#### SmartView is the smart choice.

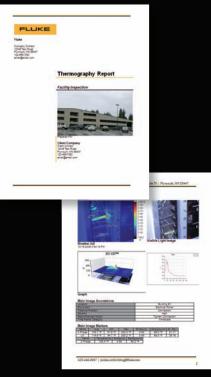
- Extensive annotation, editing, and viewing options with full IR-Fusion capabilities, including 3D-IR™ analysis
- Multiple reporting options and templates
- Enhance and analyze images quickly and easily
- Easy access to editing functions with SmartView tools and controls
- Report Wizard guides you through automatic report generation
- Communicate image details with text annotation drag and drop feature
- Unlimited licenses and lifetime upgrades



Navigate, analyze and enhance IR images.



Organize data with extensive annotations.



Simplified, professional report generation.

## Everything you need to get started and finish the job

- SmartView analysis and reporting software
- 2 GB SD memory card
- Multi-function memory card reader for downloading images
- Fluke signature hard and soft transport cases

- Adjustable hand strap (Left or right-handed users)
- 2 rechargeable batteries
- AC charger/power supply
- All Fluke thermal imagers come with a full two-year warranty.
   Extended warranties are also available.\*

## Performance-tested Fluke accessories

From telephoto and wide-angle lenses to extra chargers, tripod mounts and light-shading visors, you can expand your capabilities with Fluke signature accessories.

<sup>\*</sup> Availability and specifications subject to change without notice.