

VT04, VT04A and VT02 Visual IR Thermometers

Technical Data

Detect issues instantly!

Eliminate the need for multiple temperature measurements. Fluke Visual IR Thermometers combine the convenience of a spot thermometer with the visual advantage of an infrared heat map.

- See temperature patterns in a blended heat map image
- Intuitive enough to use right out of the box
- Pocket-size design
- Breakthrough affordability

Designed to see it all

Every Fluke Visual IR Thermometer has a built-in digital camera with an infrared heat map overlay to instantly identify the exact location of the problem.



VT02

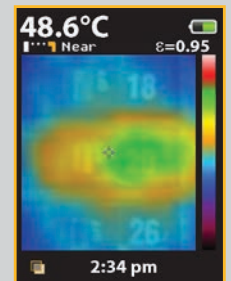
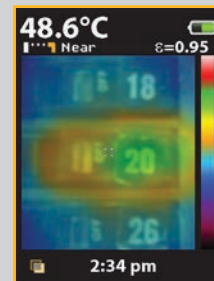
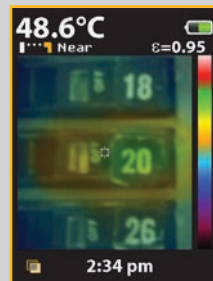
VT04/
VT04A

Center-point temperature (°C/°F)

Hot and cold markers

Digital image for context
Clearly see that breaker 20 is overloaded and communicate your findings.

Infrared heat map overlay





Key features of a visual IR thermometer:

Fits your budget

Fluke VT02, VT04 and VT04A Visual IR Thermometers give you bold temperature features at a price that allows you to outfit your entire team.

Intuitive interface

Get to work as soon as you take it out of the box.

Pocket-size design

Handy when you need it—easily fits in your tool bag or pocket.

Infrared heat map blending

Blend digital image with heat map overlay at 0%, 25%, 50%, 75%, and full infrared with one button.

Center-point temperature and hot and cold markers

Hot and cold markers automatically identify hottest and coldest spots within field of view.

SmartView® reporting software

Store up to 10,000 images per GB on included SD card and make reports with Fluke's professional reporting software.

Batteries that work as long as you

Choose between a rechargeable Lithium-ion battery (VT04) and 4 AA batteries (VT04A and VT02). Both options last 8 hours.

Additional benefits of VT04/VT04A

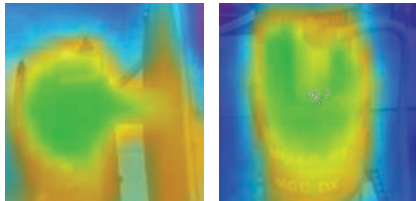
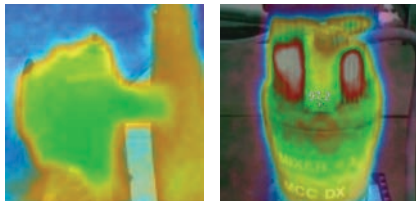
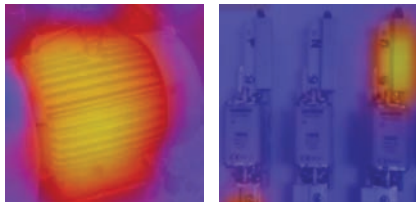
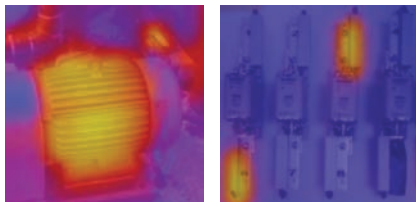
See more with PyroBlend® Plus optics

- **Excellent field of view for tight spaces:** 28° x 28°
- **Four times sharper images than VT02**

Alarm and time lapse features

- **High/low temperature alarms**—high and low temperature alarms flash whenever the temperature threshold is exceeded
- **Time-lapse image capture**—automatically capture images at set intervals of time without being there
- **Auto-monitor alarm**—automatically capture images after a user-selected temperature threshold has been exceeded

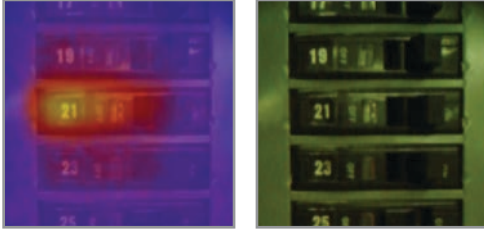
Specifications

| Key features | VT02 | VT04/VT04A |
|---|---|--|
| Built-in digital camera | Yes | |
| Infrared heat map overlay | Yes, five blending modes | |
| Image optics system | PyroBlend® optic  | PyroBlend® Plus optic 4x sharper image than VT02  |
| Field of view | 20° x 20°  | 28° x 28°  |
| High/low temperature alarms | — | Yes |
| Time-lapse image capture | — | Yes |
| Auto-monitor alarm | — | Yes |
| Battery type | Four (4) AA batteries | VT04: Li-ion rechargeable; VT04A: Four (4) AA batteries |
| Ergonomics | Slim pocket-sized design | |
| Hot and cold markers | Yes | |
| General specifications | | |
| Battery life | Eight (8) hours | |
| Temperature measurement range | -10 °C to +250 °C (14 °F to 482 °F) | |
| Temperature measurement accuracy | ± 2 °C or ± 2 % | |
| Temperature measurement | Yes, center-point | |
| Storage medium (micro SD card) | Stores up to 10,000 images per GB (4 GB card included) | |
| Infrared spectral band | 6.5 µm to 14 µm | |
| Level and span | Auto | |
| Focus mechanism | Focus free | |
| Alignment of blended visual image and infrared heat map | NEAR: <23 cm (9 in) from target FAR: >23 cm (9 in) from target | |
| Dimensions | 21 cm x 7.5 cm x 5.5 cm (8.3 in x 3 in x 2.2 in) | |
| Weight | 385 g (13.5 oz) | VT04: 350 g (12.5 oz); VT04A: 385 g (13.5 oz) |
| File format | .is2 format saved to SD card. User can create professional reports or export images in SmartView® (BMP, DIB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF and TIFF). | |
| Safety and compliance | CFR47: 2009 Class A. Part 15 subpart B; CE: EN 61326:2006; IEC/EN 61010-1:2010 | |
| Warranty | Two-years | |

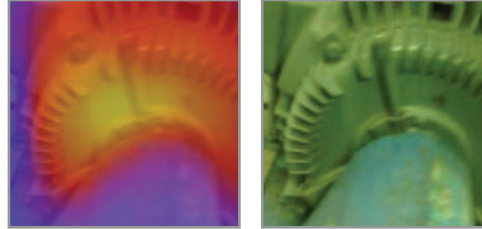
Key applications

Hot and cold spots can't hide anymore in electrical, HVAC, mechanical, and automotive applications.

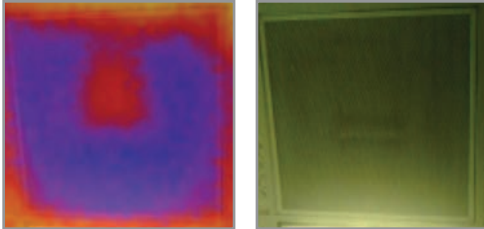
Overloaded breakers



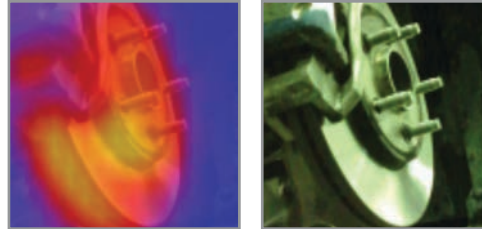
Overheating motor



Faulty air damper



Brake rotor



Ordering information

FLK-VT04 VT04 Visual IR Thermometer

FLK-VT04A VT04A Visual IR Thermometer

FLK-VT02 VT02 Visual IR Thermometer

Included with product*

VT04: includes a hard case, micro SD card and adapter, a lithium ion rechargeable battery, and micro USB charger/power supply (including worldwide adapters).

VT04A: includes a soft case, micro SD card and adapter, and 4 AA batteries.

VT02: includes a soft case, micro SD card and adapter, and 4 AA batteries.

All models include printed quick start guides in English, Spanish, German, French and Simplified Chinese.

Optional

FLK-VT04-CHARGER Replacement Charger for VT04

FLK-VT04-BATTERY Replacement Battery for VT04

FLK-VT04-HARD CASE Hard Case for Visual IR Thermometers

C90 Soft Case for DMMs and Visual IR Thermometers

Save money with Fluke kits:

FLK-VT04-MAINT-KIT Includes a VT04 Visual IR Thermometer and a 1507 Insulation Multimeter

FLK-VT04-HVAC-KIT Includes a VT04 Visual IR Thermometer, 902 True-rms HVAC Clamp Meter and a 116 Digital Multimeter.

FLK-VT04-ELEC-KIT Includes a VT04 Visual IR Thermometer, a 117 Electricians Multimeter and a 376 AC/DC True-rms Clamp Meter

*The following accessories have been removed from the visual IR thermometer packaging: lanyard, hard carrying case (still included with VT04), SmartView® and owner's manual CDs.