

# 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

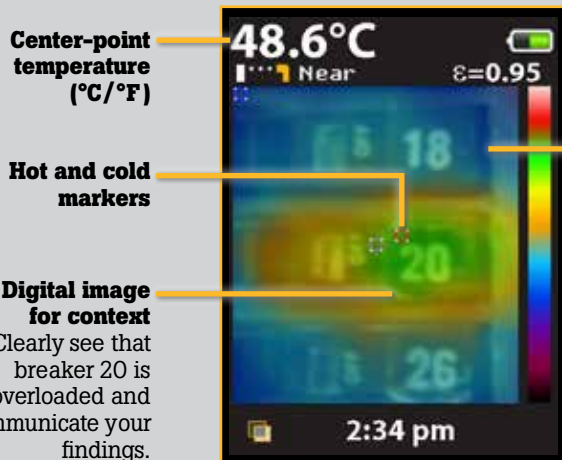
### Designed to see it all

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



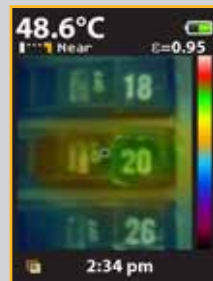
Center-point temperature (°C/°F)

Hot and cold markers

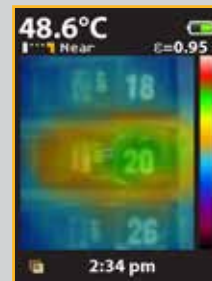
Digital image for context

Clearly see that breaker 20 is overloaded and communicate your findings.

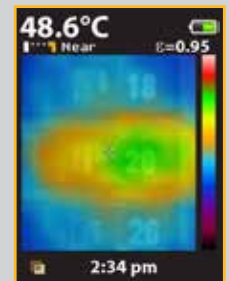
Infrared heat map overlay



25 % heat map



50 % heat map



75 % heat map



**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**

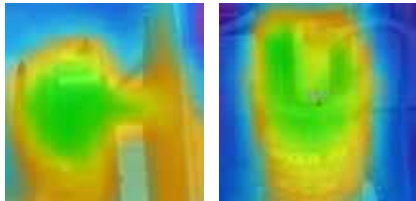
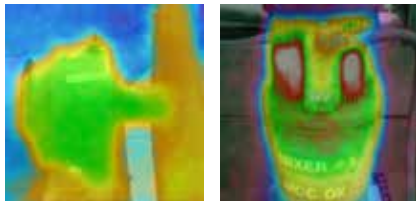
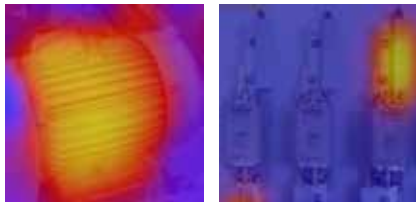
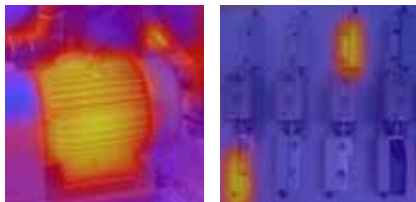
**See more with PyroBlend® Plus optics**

- **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

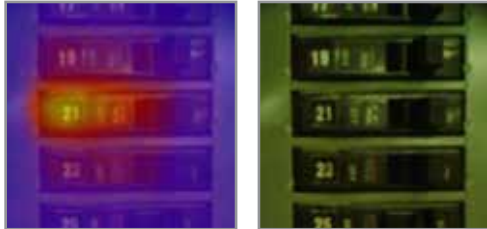
## Specifications

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	
<b>General specifications</b>		
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); go to Fluke website to download software free	
Safety and compliance	CFR47: 2009 Class A. Part 15 subpart B; CE: EN 61326:2006; IEC/EN 61010-1:2010	
Warranty	Two-years	

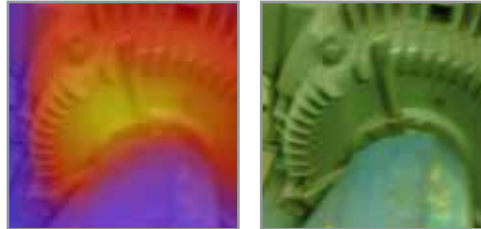
## Key applications

Hot and cold spots can't hide anymore in electrical, HVAC, mechanical, and automotive applications. Watch videos and get application notes at [www.flukecanada.ca/vtapps](http://www.flukecanada.ca/vtapps).

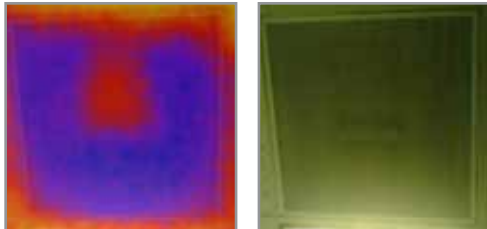
### Overloaded breakers



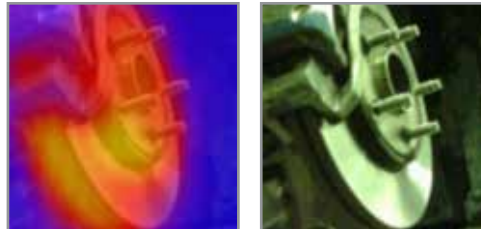
### Overheating motor



### 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; other languages are available to download from the Fluke website at [www.fluke.com/vtquickstart](http://www.fluke.com/vtquickstart). The users manual (in multiple languages) and SmartView® software (18 languages) are available for free download from the Fluke website at [www.fluke.com/vtmanual](http://www.fluke.com/vtmanual) and [www.fluke.com/vtsmartview](http://www.fluke.com/vtsmartview).

### 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 (available for download from the Fluke website).

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

### Fluke Corporation

PO Box 9090, Everett, WA 98206 U.S.A.

### Fluke Europe B.V.

PO Box 1186, 5602 BD Eindhoven, The Netherlands

### For more information call:

In the U.S.A. (800) 443-5853 or

Fax (425) 446-5116

In Europe/M-East/Africa +31 (0) 40 2675 200 or

Fax +31 (0) 40 2675 222

In Canada (800)-36-FLUKE or

Fax (905) 890-6866

From other countries +1 (425) 446-5500 or

Fax +1 (425) 446-5116

Web: <http://www.fluke.com>

©2013-2014 Fluke Corporation.

Specifications subject to change without notice.

Printed in U.S.A. 3/2014 6000547F\_CAEN

**Modification of this document is not permitted without written permission from Fluke Corporation.**

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А