

## Ten reasons to buy a Fluke Visual IR Thermometer

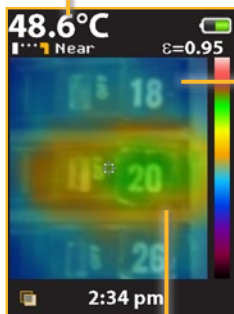
The Fluke Visual IR Thermometers combine the convenience of a spot thermometer with the visual advantage of an infrared camera, creating a brand new tool category.

### Application Note

#### [ 1. Designed to see it all ]

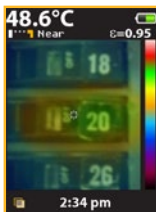
Every Fluke Visual IR Thermometer has a built-in digital camera with a thermal heat map overlay to instantly identify the exact location of the problem.

Centerpoint temperature (°C/°F)

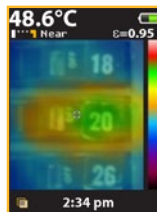


**Digital image for context**  
Clearly see that breaker 20 is overloaded and communicate your findings.

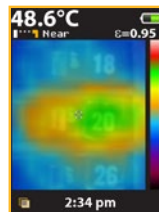
Thermal heat map overlay



25 % heat map



50 % heat map



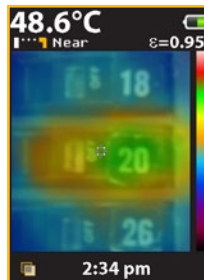
75 % heat map

#### [ 2. Measure with confidence ]

Traditional infrared thermometers may seem affordable and convenient, but they only show an average temperature of an area. The Fluke Visual IR Thermometer gives you the visual image of exactly what you are measuring.



**Traditional IR thermometer**  
Optimized for single point measurements.



**Visual IR Thermometer**  
Digital image with heat map overlay detects the exact location of the issue.



Fluke VT02  
Visual IR  
Thermometer

Fluke VT04  
Visual IR  
Thermometer

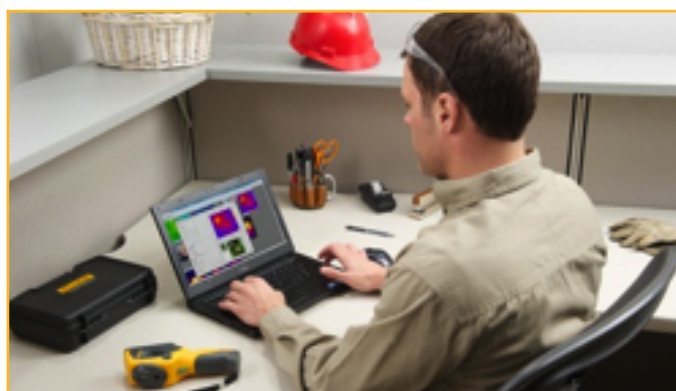
### [ 3. Detect issues instantly ]

Eliminate the tedious tasks of taking multiple grid readings. Every Fluke Visual IR Thermometer has a built-in digital camera with a thermal heat map overlay to instantly identify the exact location of the problem.



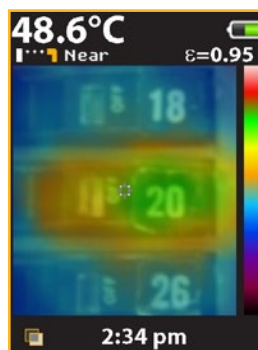
### [ 4. Professionally document your work ]

Producing a professional report with the included SmartView® Software is just as powerful as the tool itself. Easily communicate issues or document repairs that have been made.



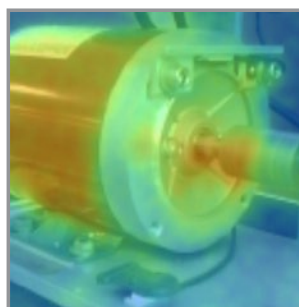
### [ 5. No training required ]

The Fluke Visual IR Thermometer is an ideal frontline troubleshooting tool that can uncover issues right out of the box with no training required. For example, it is apparent that breaker 20 is overloaded, requiring further investigation.

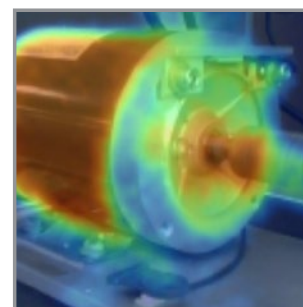


### [ 6. Establish baselines for preventive maintenance ]

Monitor mission critical equipment over time while inspecting under similar operating conditions to identify potential problems early. The VT04 also offers automated alarm monitoring to allow you to capture images unattended.



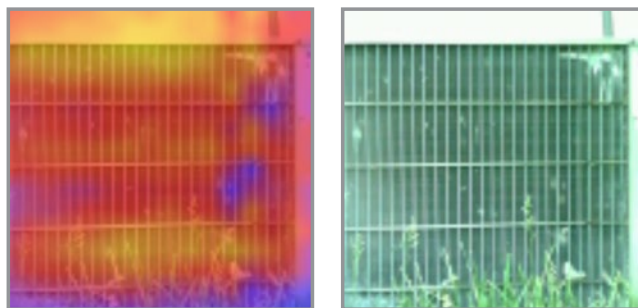
Baseline heat map image



Heat map image taken at later date indicates further mechanical inspection required

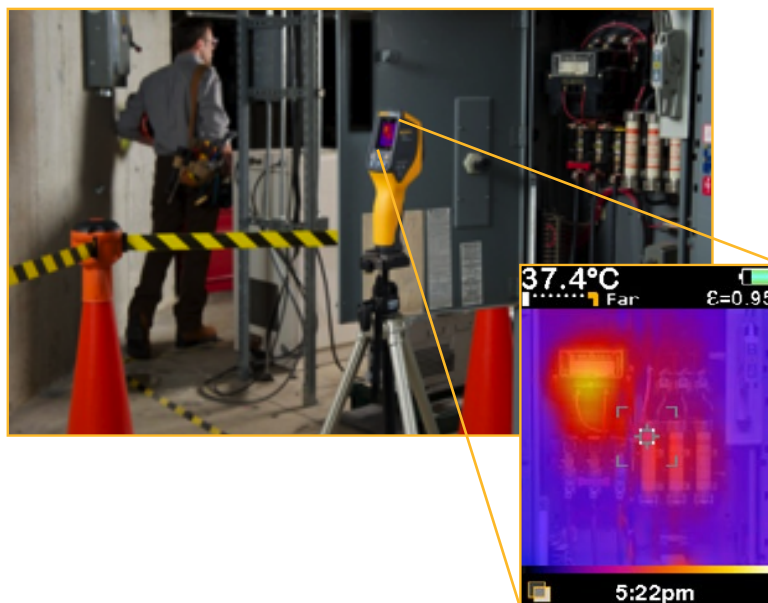
## [ 7. Uncover issues you may have missed ]

In this typical AC condenser, you can quickly see the uneven distribution of heat in the center row, which may indicate a potential issue. This could easily be missed with a traditional IR thermometer.



## [ 8. Troubleshoot intermittent issues ]

The auto monitoring feature in the VT04 allows you to troubleshoot intermittent issues that may be challenging to discover, such as looking for connection or overload conditions in combination starters. Set the time lapse alarm, and capture images in 30 second to 1 hour intervals. Images are saved to the included SD card.

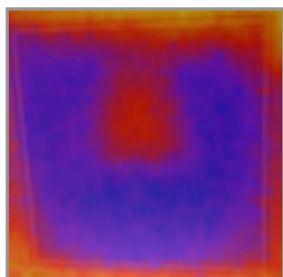


## [ 9. Carry it everywhere ]

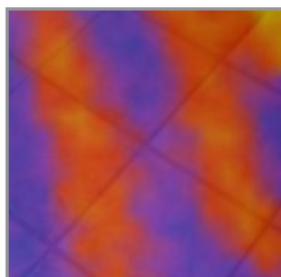
While many infrared cameras claim to be compact, the Fluke Visual IR Thermometers are specifically designed to fit in your pocket.



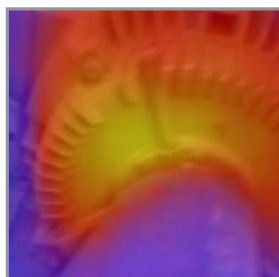
## **[ 10. Just as versatile as the issues you are asked to troubleshoot ]**



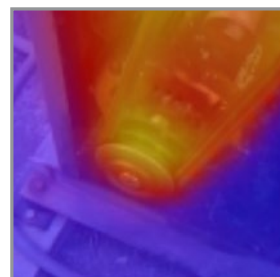
**Potentially faulty cold  
air damper**



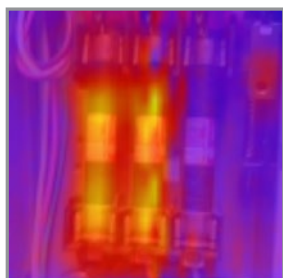
**Inspection of hydronic  
floor heat**



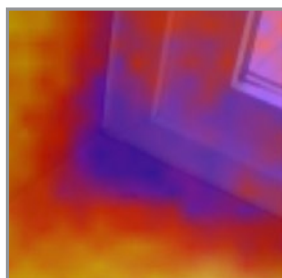
**Overheated motor  
output**



**Thermal inspection  
of pulley**



**Unbalanced load in 3  
phase supply**



**Energy loss around  
window**

### **Set yourself up for success.**

Follow a few simple steps that will help you troubleshoot issues in facilities applications:

- Wear proper PPE for your environment, according to your local, national, and company protocols. Always remain the proper distance away from potentially hazardous equipment.
- Have direct access to the target you are scanning. Disassembly may be required around your target.
- When you've found a potential issue using the blended heat map, move closer to take a center-point temperature measurement.
- Understand how surface material characteristics such as emissivity can influence your readings.