

**FLUKE®**

# The Fluke 576 Photographic Non-contact Thermometer

Infrared temperature  
measurement with  
digital photos

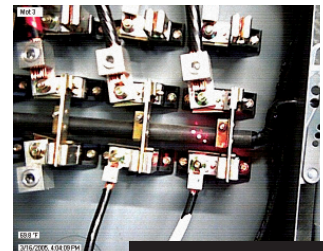


## Technical Data

Introducing the world's first precision infrared (IR) thermometer with integral digital photography. For the most complete temperature documentation solution, predictive maintenance professionals use the Fluke 576 precision IR thermometer.



**Measure**



**Photograph**



**Document**

## Specifications

<b>Thermometer</b>	
Temperature range	-30 °C to 900 °C (-25 °F to 1600 °F)
Accuracy	±0.75 % of reading or ±0.75 °C (±1.5 °F) whichever is greater (assumes ambient operating temperature of 23 °C (73 °F))
Repeatability	≤ ±0.5 % of reading or ≤ ±1 °C (±2 °F), whichever is greater
Response time	250 mSec (95 % of reading)
Spectral response	8 μm to 14 μm, thermopile detector
Distance to Spot (D:S)	60:1 (50:1 with Close Focus Option)
Minimum measurement diameter	19 mm (0.76 in) [6mm (0.24 in) with Close Focus Option]
Display resolution	0.1 °C of reading up to 900 °C (0.2 °F up to 999.8 °F)
Temperature display	°C or °F selectable
Ambient operating temperature	0 °C to 50 °C (32 °F to 122 °F)
Relative humidity	10% to 90% RH non-condensing at up to 30 °C (86 °F)
Storage temperature	-20 °C to 50 °C (-25 °F to 122 °F)
Tripod mount	1/4-20 UNC
Power	2 AA batteries
Battery life	8 hours (13 hours with photographic mode off) 50 photos, with flash (200 photos, without flash)
Laser Class II	3-dot laser sighting (meets IEC Class 2 and FDA Class II requirements)
Maximum and minimum temperature displayed	•
Differential and average temperature	•
Audible/visible high and low alarm	•
Bar graph display	•
Adjustable emissivity (from 0.1 to 1.0 by 0.01)	•
100 points data logging	•
Display hold	•
LCD backlit	•
PC Software operating systems	Windows 2000 and XP
Data graphing and photo viewing software (Windows® compatible)	•
Data output: USB or 1 mV per degree (°C or °F)	•
Weight	580 g (1 lb 4 oz)
<b>Camera</b>	
Maximum number of 640 x 480 pixel photos (VGA)	26
Maximum number of 320 x 240 pixel photos (1/4 VGA)	100
Recharge time for flash	5 sec
Camera lens	6 mm (0.24 in) approximately equal to 42 mm lens on a 35 mm camera
Close-up distance focal point	200 mm (7.87 in)
Far distance focal point	Infinity
Light sensitivity	6 lux w/out flash
Variable shutter speed	< 1/15 sec (with flash at 1/15 sec fixed)
Data interface	USB 1.1
Image file format	.jpg files
Warranty 2 years, conditional*	•

\* Warranty duration may vary by country.

## Ordering Information

### Options

- Close focus
- NIST calibration certificate

### Accessories

- Analog cable



Included with Fluke 576 unit:

- User's guide (on CD)
- Hardshell carrying case
- PC software
- USB computer cable
- Thermocouple K probe



Analog cable accessory