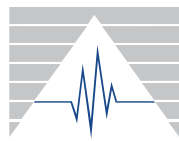


# FAQs

## Infrared Thermometers



**DeltaTRAK**<sup>®</sup>

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**Q. What are the benefits of an infrared thermometer?**

A. The time-saving and labor-saving convenience of instantaneous non-contact temperature measurement. Infrared thermometers are ideal for temperature measurement of potentially hazardous applications. The speed and accuracy of infrared technology. They are also ideal for situations in which a temperature reading needs to be taken without damaging the object, such as packaged meats or poultry.

**Q. What is infrared?**

A. Every object emits invisible infrared (IR) energy. The amounts of energy will vary, depending on the object's temperature. The IR thermometer detects this energy and instantly calculates its temperature.

**Q. How fast?**

A. DeltaTRAK infrared thermometers measure any surface temperature in less than one second.

**Q. How far?**

A. DeltaTRAK infrared thermometers will measure temperature from any distance. However, readings may be affected by Field Of View (FOV).

**Q. What is field of view?**

A. Also called distance to spot, the size of the measurement spot changes with distance; the closer you are, the smaller the spot; the further you are, the bigger the spot. In field of view, the distance is assumed at 1 meter for most infrared thermometers.

**Q. What is thermal shock?**

A. When the temperature of the thermometer itself changes suddenly — for example, going from a warm room to a walk-in freezer — it can cause temporary inaccuracies. Generally, a 20°F (11°C) change requires about 20 minutes to stabilize. This is a characteristic of all IR thermometers.

**Q. What is emissivity?**

A. Emissivity is primarily determined by how reflective a surface is. A shiny, metallic surface will reflect the infrared energy of objects around it, greatly distorting the reading of that surface. To resolve this problem, affix black tape or apply a cooking oil spray to the surface before reading.

**Q. What is the red laser?**

A. The laser is only a pointer to indicate where the thermometer is aiming and has nothing to do with the actual temperature measuring function of the thermometer.

**Q. How can I verify accuracy?**

A. Prepare an ice bath: fill a cup with crushed ice, add water, stir and let sit for a minute. Point the laser at the surface of the water and take a temperature measurement with the thermometer. The temperature should read 32°F (0°C).



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