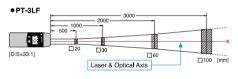
Portable Non-contact Thermometer

Specifications

Model	PT-3LF
Measuring Range	-20 to 400°C (Display -30 to 430°C)
Field of View	□30/1000mm
Optics	Silicon Lens
Sensing element/Wavelength	Thermopile/8 to 14 μm
Response time	1.5sec./90%
Accuracy (ε=0.95, at 25°C ±3°C)	±1% of reading value or ±2°C ±1 digit, whichever is grater
Repeatability	±1°C of reading value
Display resolution	1°C/°F
Sighting method	Coaxial laser marker (Class 2)
Emissivity ratio (ε) Adjustment	DARK (ε =0.95)/BRIGHT (ε =0.70) Switchable
Back-light function	Auto ON/OFF
Temperature unit	"C/F Switchable
Measuring mode	NORMAL/MAX Switchable
Power supply	AA (Alkaline battery) x 2pcs.
Battery life (with alkaline battery)	Approx. 100 hours with back-light and laser marker OFF
Ambient temperature	0 to 50°C
Ambient humidity	35 to 85%RH (Without dew condensation)
Storage temperature	-20 to 60°C
Dimensions	162(H) x 52(W) x 32(D) mm
Weight (incl. batteries)	200g

Standard Accessory: "AA" (Alkaline Battery) x 2pcs.

Field of View



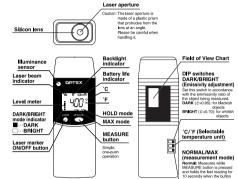
- ** The size of the target object should be sufficiently larger than the Field of View (spot size) shown in the above illustration.



Able to operate without taking out of pouch. Just open the top flip and push MEASURE button.



Display and Functions



Safe Usage



Do not look into the laser beam, nor point it directly at eyes. Even the reflection is harmful. This laser may cause eye injury or damage to your health,

This product is not a clinical thermometer; therefore, cannot be used for

Environmental Warnings

- \odot AVOID GETTING THE THERMOMETER WET. DO NOT USE IN WATER.
- KEEP THE THERMOMETER AWAY FROM STRONG ELECTROMAGNETIC SOURCES OR LARGE ELECTROMAGNETIC FIELDS. Usage in such environments may
- KEEP THE THERMOMETER AWAY FROM DIRECT SUNLIGHT, DUST, HIGH TEMPERATURES AND HIGH HUMIDITY DURING USE AND STORAGE.
 This may cause irreparable damage or incorrect measuren
- DO NOT EXPOSE THE THEMOMETER TO SUDDEN TEMPERATURE CHANGES. Sudden temperature change of the environment may cause incorrect measurement. In such cases, wait until the thermometer reaches steady temperature before taking measurement.

Usage Warnings

• AVOID MEASURING SHINY OBJECTS.

- AVUID MEASURING SHIRT OBJECT. Shirpy objects, of which emissivity value is low, reflect surrounding temperatures. As this thermometer's sensitivity to emissivity is fixed at 0,950,70, the displayed temperature oxin dudifier from the actual temperature of the object, which has the different emissivity as Value. When you wish to measure shirpy objects the metals, but a piece of optional black tape or apply black paint/maker on the surface and measure the masked area using emissivity setting of 0.95.
- DO NOT LET THE THERMOMETER TOUCH THE OBJECT THAT IS BEING MEASURED.

Products mentioned in this catalogue are equipped with Class 2 laser. In case of re-export to foreign countries, please confirm the relevant regulation for laser products in the destination country.





4-7-5 Nionohama Otsu 520-0801 JAPAN TEL +81-77-524-6049 FAX +81-77-524-1491

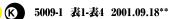
"Take Care of the Environment" This catalogue uses recycled paper

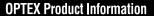
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DETEX

Portable Non-Contact Thermometers

Portable Non-contact **Thermometer**

THERMO-HUNTER PT-3LF



Coaxial laser marker pinpoints the center of the measuring area.

Precise measurement with high optical resolution: □30mm at 1m distance

Applications











Motor/Machine

Freezer/Refrigerator



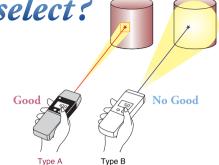




^{*} Design and specifications may change for product improvement without prior notice.

Which do you select?

If you are going to get Portable Non-contact Thermometer, you had better choose the one which can measure small target from a distance. As the type A has narrow field of view, only the object can be measured. If you need precise measurement, you will select Type A.



What is a non-contact infrared thermometer?

Every object emits invisible infrared (IR) energy from its surface. Non-contact thermometers instantly detect and convert the amount of infrared energy into a temperature value. The value indicated on LCD display is the average temperature within the area measured.

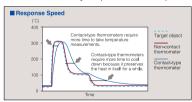


The advantages of non-contact thermometer



It's so quick and easy - just press a button, and get the temperature in about a second.

It is an ideal tool to improve your work efficiency.



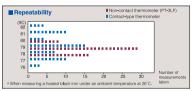
Safe

Since it's non-contact, you can check the temperature of machinery in operation and equipments with high voltage or high temperatures from a safe distance.



Reliable

Repeatability is one of the important factors to prove how reliable a thermometer is. Unlike contact-type thermometers, the same temperature reading can be repeatedly measured even when it is taken by another person.



Clean

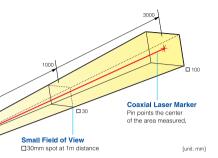
A non-contact thermometer enables you to detect temperatures of food and valuables without damaging them. It's absolutely non-contamination, hygienically



Reason for best seller: What is great about PT-3LF?

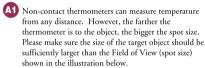
With a high optical resolution and a narrow field of view realized, the model, PT-3LF enables to aim at the target from a distance. This model is also equipped with the laser markar that points the center of the measuring area. Because of such performances, PT-3LF is used for various industries. That is the reason why PT-3LF has been a best seller.





Questions & Answers

Q1 How far can non-contact thermometer measure? Any difference in temperature according to the



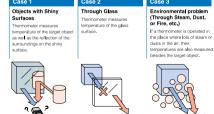




CORRECT

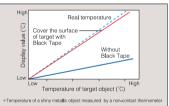
Q2 Can non-contact thermometers measure any

Non-contact thermometers can measure the surface temperatures of any objects, liquid or solid, except for the cases shown below.





A3 As shiny objects like metals reflect surrounding infrared energy, the thermometer detects both reflected and emitted energy of the shiny object itself. When you wish to measure temperature of shiny object correctly, put a piece of optional black tape [HB-250 (ε =0.95)] on the surface; then measure the area covered by the black tape with emissivity setting at 0.95 (DARK mode).





Emissivity ratio is a value that indicates the infrared energy emitted from the surface of an object. Every object has its own emissivity value and it varies depending on the surface condition or the temperature of the object. Emissivity value ranges from 0.00 (shiny mirror) to 1.00 (black body), and the most common is 0.95. OPTEX non-contact thermometer PT-3LF is equipped with emissivity adjustment function of DARK (ϵ =0.95) and BRIGHT (ε=0.70) mode.



