

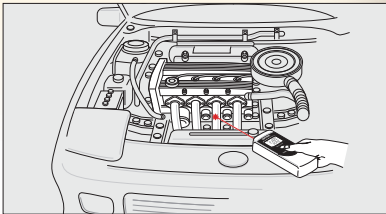
**Portable non-contact
thermometer**
Wide measurement range type

Measurement range
-40 to 510°C (-40 to 950°F)

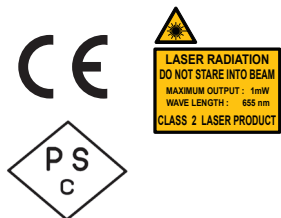
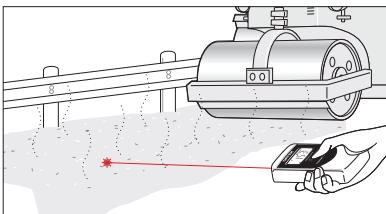
THERMO-HUNTER[®]
PT-2LD



Automotive maintenance



Asphalt construction temperature



- Wide meas. range
- Built-in laser guide
- Simple operation
- Large LCD display
- Backlight
- Automatic power off

Features

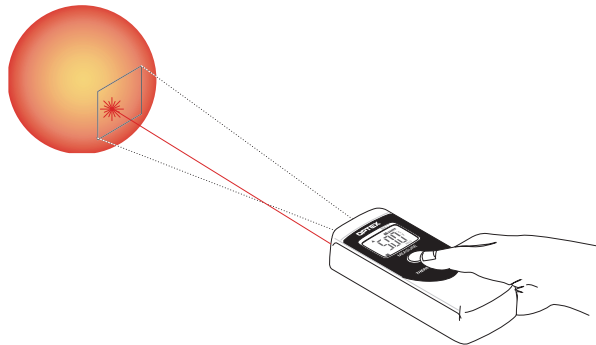
-40 to 510°C (-40 to 950°F) wide-range type

This wide-range thermometer can measure from negative temperatures, such as for frozen foods, up to 500°C (932°F).

Every PT-2LD thermometer can be used in a wide range of industries and for a wide variety of applications.

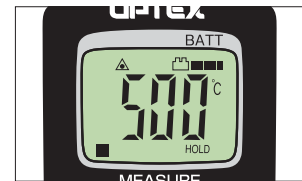
Sighting function laser marker included

The laser marker allows users to verify the measurement location even from a distance.



Large LCD and backlight function

This product uses a large LCD screen to display temperatures clearly. The included backlight function allows for reliable use even in dark locations.



Simple, one-button operation

Thanks to a simple design, users can start measurement, turn on the laser, and illuminate the backlight just by pressing one button. This allows for quick measurement immediately after taking the product out of a pocket.

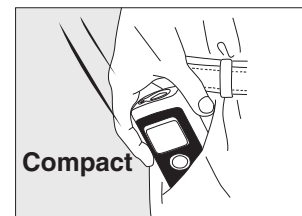


Energy-saving automatic power off function

This function is designed to save power by automatically turning off the power following the 20-second operation of the hold function after a button has been released.

Compact, pocket-sized body

The product is small and lightweight, weighing only 180 g. This compact, pocket-sized design makes it incredibly portable.



Specifications

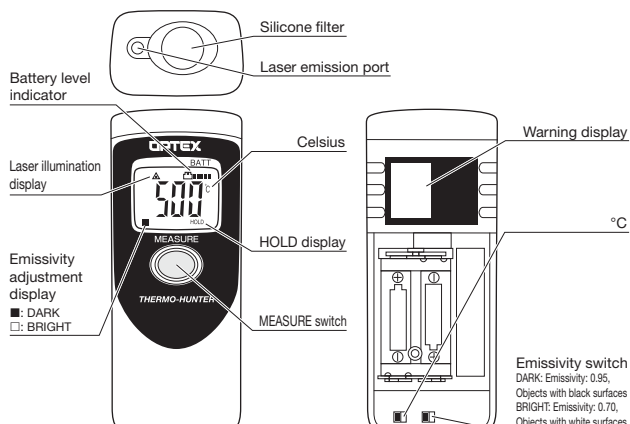
Model	PT-2LD	
Measurement range	-40 to 510°C (-40 to 950°F) (Display: -51 to 538°C (-59.8 to 1000.4°F))	
Field of view	100 × 100 mm / 1000 mm (Refer to field of view)	
Optics	Mirror type/Silicon filter	
Sensing element/spectral response	Thermopile/8 to 14 μm	
Response time	0.8 sec./90% response	
Accuracy¹ (ε=0.95)	Up to 0°C (32°F): ±3°C (5.4°F), 0 to 200°C (32 to 392°F): ±2°C (3.6°F), 201°C (393.8°F) and up: ±1% of reading value	
Repeatability	±1°C (1.8°F)	
Display resolution	1°C (1°F)	
Emissivity (ε) adjustment	0.95/0.70, switchable (switching via DIP switch)	
Sighting function	Coaxial laser marker Class 2 (IEC / JIS / FDA ²)	
Functions	Backlight Automatic power off function	
Power supply	AA alkaline battery ×2	
Battery life	Approx. 30 hours (when using alkaline batteries)	
Ambient temperature	0 to 50°C (32 to 122°F)	
Ambient humidity	35 to 85% RH (no condensation)	
Storage temperature	-10 to 60°C (14 to 140°F)	
Dimensions	H × W × D = 140 mm × 56 mm × 37 mm	
Applicable regulations	EMC	EMC Directive (2014 / 30 / EU)
	Environment	RoHS Directive (2011 / 65 / EU), China RoHS (MIIT Order No.32)
	Safety	FDA Regulations (21 CFR 1040.10 and 1040.11) (except for deviations pursuant to Laser Notice No.50)
Applicable standards	EN 60825-1	
Weight	Approx. 180 g (including batteries)	
Standard included accessories	Strap	

¹ The measurement accuracy in the specification is limited to the calibration conditions of our factory.

² This product is classified as Class 2 by IEC 60825-1: 2007 according to Laser Notice No.50, FDA Guidance Document.

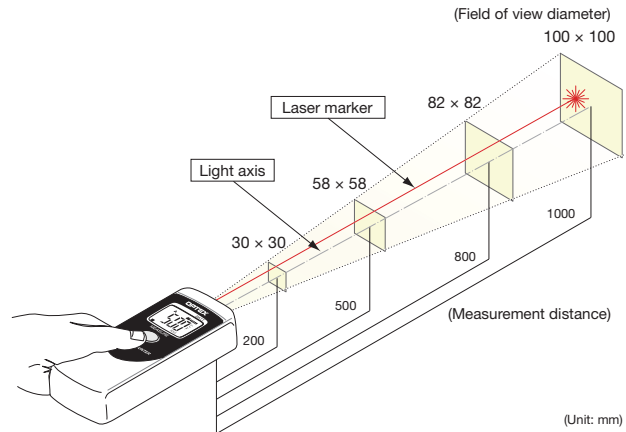
• Note that specifications are subject to change without prior notice for product improvement purposes.

Names of components



Wide measurement range type PT-2LD

Field of view



- How to read the diagram
At 200 mm from a measurement target, the product measures the average temperature of the square surface area (30 mm × 30 mm).
- The laser marker is located 20 mm to the left of the light axis.
- The measurement fields of view stated above are measurement diameters with an optical response of 90%. The size of the measurement target must be sufficiently larger than the figures shown in the above diagram.

Options/Accessories

Black tape for glossy objects

HB-250



When attached to the surface of an object with unknown emissivity or a glossy object, this tape provides an emissivity of 0.95, enabling accurate non-contact temperature measurement. Emissivity on the PT-2LD can be switched between two levels. Set the emissivity to 0.95 (DARK) for use. The tape is built with material resistant to heat up to 250°C (482°F). Total area: 60 mm × 2000 mm

Correct use

■ Situations where measurement may be difficult

- When measuring a mirror-like surface such as shiny metal.
- (Measure after attaching optional accessory HB-250 or after creating a matte finish using paint or the like.)
- When measuring through glass.

■ Correct use

- Be sure to read the instruction manual thoroughly before using the product.
- This instrument is not a thermometer for taking body temperatures. It is not intended for use in medical practices.
- This product is not waterproof. Do not use this product in water or in a location where it may be exposed to water.
- Sudden changes in ambient temperature can cause measurement errors. Please ensure the product is not subject to sudden temperature changes during use.
- Avoid using the product near objects that generate strong electromagnetic waves.

■ Precautions for laser use

This product emits a Class 1 or Class 2 visible laser beam that is compliant with JIS C6802/IEC 60825-1/FDA laser safety standards. Labels for applicable standards are affixed and attached to the sides of the sensor.

Type of laser used in this product

Type	Red semiconductor laser
Wavelength	655 nm
Output	390 μW/1 mW

- Export to the United States
If this product is to be exported to the United States, it is necessary to follow laser standards as stipulated by the US Food and Drug Administration (FDA). This product has already been submitted to the CDRH (Center for Devices and Radiological Health).



Selection guide

Stationary-type

CS

SA-80

BA

BA-TC

BS

BS-02

BF

Portable-type

PT-7LD

PT-5LD

PT-S80
PT-U80

PT-2LD

PT-3S

Q & A

Support

Company