UT300A+

Mini Infrared Thermometer **User Manual**

Introduction

UT300A+ infrared thermometer (hereinafter referred to as the thermometer) can quickly and accurately determine the surface temperature by measuring the infrared energy radiated from the target surface. It is suitable for non-contact surface temperature

Safety Information

▲ Warning:

A LASER RADIATION DO NOT STARE INTO BEAM OUTPUT < 1mW COMPLIES WITH EN60825-1:2014

To avoid eyes or personal injury, please read the following safety instructions before using the thermometer:

- Please do not irradiate people or animals with laser
- directly or indirectly.

 Please do not look at the laser directly or through
- other optical tools (telescope, microscope, etc).

 If battery symbol on LCD display is flashing, replace batteries immediately to avoid inaccurate measurements before using the thermometer.
- Inspect the case before using the thermometer.
 Do not use the thermometer if it appears damaged. Look for cracks or missing plastic.
- Please refer to the emissivity information for the actual temperature. Reflective objects can cause the actual temperature value to be higher than the measured temperature value. When measuring these objects, please be aware not to touch high temperature surfaces.
- Do not use the thermometer in an explosive gas, steam, or humid environment.

 To ensure measurement accuracy, place the
- thermometer in the current environment for more than 30 minutes before using it.

 Avoid keeping the thermometer near high temperature
- objects for a long time.

Safety Standards

CE Certification: EN61326-1:2013 EN61326-2-3:2013 Laser safety standard: EN60825-1:2014

Reference Standard:

JJG 856-2015

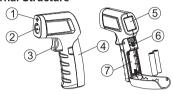
Specifications

Product Features

- Simple one button operation
- Single laser targeting LCD backlight

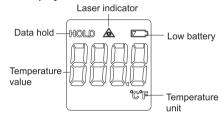
- Auto data hold (8s)
 Auto power off
 Low battery indication
 °C/°F selectable
- 8) Power-off memory

Product Descriptions External Structure



1	Laser	2	Infrared sensor
3	Trigger	4	Battery cover
5	LCD	6	°C/°F switching button
7	Battery compartmentSimple Infrared Thermometer		

LCD Display Function



Operations

Viewing the Last Measured Value
In the off state, short press the trigger to turn on the thermometer, it will display the last me was held before the last shutdown.

Temperature Measurement
Aim the thermometer at the target, then pull and hold the trigger, the laser indicator on the LCD display shows that the laser is turned on and points to the target, the measured temperature value will be displayed on the LCD, and the maximum or minimum temperature of the target area can be measured by scanning up, down, left and right according to the laser spot indication.

Temperature range -20°C~400°C (-4°F~752°F) >0°C: ±2.0°C or ±2% of reading, whichever is greater ≤0°C: ±(2.0°C+0.1°C/°C) Accuracy Ambient temperature 21°C~25°C (70°F~77°F) >32°F: ±4.0°F or ±2% of reading, whichever is greater \leq 32°F: ±(4.0°F+0.1°F/°F) ±0.1°C/°C or ±0.1%/°C, whichever is greater Temperature coefficient (±0.1°F/°F or ±0.1%/°F, whichever is greater) 10:1 (calculated at 90% energy) D:S ratio Emissivity Response time <500ms (95% of reading) Spectral response 5.5um~14um 0.1°C (0.1°F) Resolution Repeatability 1°C or 1.0%, whichever is greater (2°F or 1.0%, whichever is greater) Single laser, wavelength 630nm~670nm Laser Output power < 1mW. class 2 laser AAA * 2 | 1.5V Battery type ≥20H (continuous operation when laser backlight is turned on) Battery life Product size Product weight About 148g (including batteries) Operating temperature 0°C~50°C (32°F~122°F) -20°C~60°C (-4°F~140°F) Storage temperature <RH90% (non-condensing) Operating humidity Drop test 1m

 Λ In the presence of a strong electromagnetic field, the product may result up to $\pm 10^{\circ}$ C or 20% variation of the measured value. If this variation is observed, move the meter out from the area for accurate measurement.

Note: The measurement distance must be determined by the size of the measured target according to the "distance to spot size ratio (D:S)" and "field of view".

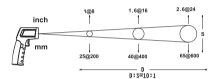
After the trigger is released, the last measured value and the HOLD icon will remain on the LCD display. If there is no operation for 8 seconds, the thermometer will automatically shut down and save the last measured value

Unit Conversion

In the power-on state, open the battery cover and short press the °C/°F button to switch the temperature unit to Celsius (°C) or Fahrenheit (°F).

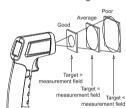
Distance to Spot Size Ratio (D:S)

As the distance (D) from the target being measured increases, the spot size (S) on the measured area becomes larger. The relationship between the distance and the spot diameter is as shown in the figure below. The spot diameter represents 90% of the energy in the circle. The maximum D:S (10:1) will be obtained when the thermometer is 400mm (16") from the target resulting in a spot diameter of 40mm (1.6").



Field of View

Make sure that the measured target is larger than the spot diameter. The smaller the target is, the closer the test distance should be (please refer to D:S for the spot diameter at different distances). To obtain the best measurement result, it is recommended that the target being measured is 2.5 times larger than the spot diameter.



roubleshooting				
Symptom	Problem	Action		
OL appears when measuring	Measured value is greater than the maximum range	Stop measuring		
-OL appears when measuring	Measured value is less than the minimum range	Stop measuring		
Err appears when booting	Exceeding the minimum or maximum operating ambient temperature	Place the thermometer in a 0°C~50°C (32°F~ 122°F) environment, and it can be recovered after 30 minutes		
Battery indicator flashes	Low battery	Replace the batteries		
Laser fails to work/weak laser	Low battery	Replace the batteries		
The measurement is inaccurate	Low battery, emissivity mismatching, measured distance is too far, measured target diameter is less than 20mm, etc.	Please refer to the instructions for field of view, D.S, etc.		

Maintenance

Blow away particles with clean compressed air, carefully wipe the surface of the lens with a cotton swab moistened with water, and clean the chassis with a damp sponge or soft cloth.

Battery Replacement

Please install or replace the batteries (AAA (LR03) 2*1.5V) as shown on the right.



说明书菲林做货要求:

序号	项目	内容			
1	尺寸	尺寸: 285*210mm 折后: 70*95mm			
2	材质	材质 60g书纸			
3	颜色	单色印刷			
4	外观要	完整清晰、版面整洁,无斑墨、残损、毛边、刀线错位等缺陷。			
5	装订方式 左右风琴折,上下对折				
6 表面处理		无			
7	其它				
版本		0			
修改页码					
	NH 计 邓赴	香18/11/29 MODEL UT300A+英 Part NO. ###\#\#\#\#\#\#\#\#\#\#\#\#\#\#\#\#\#\			
Ch 审:	HK 核	机型: 文中性说明书 物料编号: 110401108047X			
<u> </u>	PRO.	优利德科技(中国)有限公司 UNI-TREND TECHNOLOGY (CHINA) LIMITED			

ОФИЦИАЛЬНЫЙ ДИЛЕР В УКРАИНЕ:

storgom.ua

ГРАФИК РАБОТЫ:

Пн. - Пт.: с 8:30 по 18:30

Сб.: с 09:00 по 16:00 Вс.: с 10:00 по 16:00

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Детальное описание товара: https://storgom.ua/product/uni-t-189015.html

Другие товары: https://storgom.ua/pirometry.html