

UT306A

Mini Infrared Thermometer User Manual

I. Introduction

UT306A is a mini infrared thermometer, that is able to determine the temperature of an object's by measuring the radiated infrared energy from its surface.

II. Safety information

Warnings:

To avoid injury and damage, please read the following information before use.

- Do not point laser directly at persons or animals or indirectly off reflective surfaces.
- Do not look directly into the laser with optical tools (for example, telescopes, microscopes). Optical tools can focus the laser and be dangerous to the eyes.
- If low power indicator flashes on the screen, please replace the battery.
- Before using the product, please check it, if damaged, the surface cracks or the lack of plastic parts, do not use
- See emissivity information for actual temperature. Reflective objects result in lower than actual temperature measurements. These objects pose a burn hazard.
- Do not use the device if explosive gas, steam, moist surrounding.
- To ensure accuracy, place the device at current environment for over 30 mins.
- Avoid staying beside object with high temperature for long time.

III. Specifications

Range	-35°C~300°C (-31°F~572°F)
Accuracy Calibrated ambient temperature: 21°C~25°C(70°F~77°F)	≥0°C:±2.0°C or ±2% of reading, whichever greater <0°C:±(2.0°C+0.1°C/°C) ≥32°F:±4.0°F or ±2% of reading, whichever greater <32°F:±(4.0°F+0.1°F/°F)
Temperature coefficient	0.1°C/°C(0.1°F/°F) or ±0.1% of reading per degree, whichever greater
Optical resolution	6:1(calculated when energy is 90%)
Emissivity	0.95

Response time	250ms(95% of reading)
Spectral response	8um ~ 14um
Display resolution	0.1°C(0.1°F)
Repeatability	±1.0°C(2.0°F) or ±0.1% of reading, whichever greater
Laser	IEC60825-1:2014 CLASS II, λ=630nm~670nm, <1mW
Battery type	AAA 1.5V*3
Battery life	≥20H(Work continuously with laser&backlight on)
Dimension	120mm*53mm*28mm
Weight	120g
Working temperature	0°C~50°C (32°F~104°F)
Storage temperature	-20°C~60°C (-4°F~140°F)
Working humidity	<RH90% (non-condensation)
Working altitude	≤2000 meters
Storage altitude	12000m
Drop test	1 m

IV. Safety standard

CE: EN61326-1: 2013 EN61326-2-2: 2013

Laser safety standard: EN60825-1: 2014

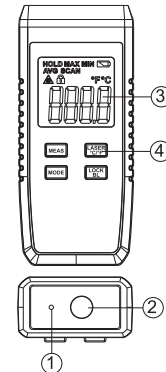
V. Features

- Laser aiming
- Backlight
- Auto measurement
- MAX/MIN/AVG temperature measurement.
- Selectable temperature units
- Low power indication
- Data hold
- Auto power off
- Auto recording

VI. Product description

Structure

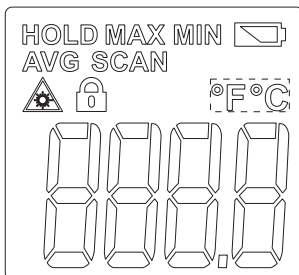
- 1.Laser emission spot
- 2.Infrared signal receiving terminal
- 3.Display screen
- 4.Buttons



Buttons

- : Power ON&Measurement
- : Laser ON/OFF or Temperature unit switch
- : Select MAX/MIN/AVG or real-time measurement
- : Measurement lock or backlight ON/OFF

Symbols



HOLD	Data hold
MAX	Maximum value
MIN	Minimum value
	Low power
AVG	Average value
SCAN	Scan measurement
	Laser ON
	Auto measurement
°F/°C	Temperature unit
	Reading

VII. Operation instructions

Power on

Short press to switch on the device and record from last shutdown is displayed.

Temperature measurement

Press and hold, thermometer start scanning, SCAN symbol flashes on the screen. Laser is for aiming object being measured. Release button to stop measurement. HOLD symbol appears while SCAN symbol disappears and laser is off. Result is displayed on the screen.

Auto Measurement

After turn on the device, short press button to activate measurement lock function. symbol appears on the screen. Thermometer will conduct auto and continuous measurement without any operation. Short press LOCK/BL again to unlock the auto measurement. symbol disappears and return to HOLD mode.

Auto power off

The thermometer will automatically power off if without operation for 8 seconds.

Laser ON/OFF

Turn on the thermometer, short press to switch ON/OFF the laser. When laser is ON, symbol appears.

Temperature unit

Turn on the thermometer, long press to switch temperature unit.

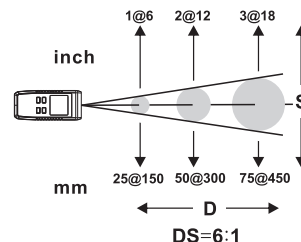
Backlight

Turn on the thermometer, long press to turn ON/OFF the backlight.

Measurement modes

Turn on the thermometer, short press to cycle switch between MAX, MIN, AVG, real-time measurement modes. Corresponding symbols appear to indicate the current measurement mode. MAX/MIN/AVG symbols disappear when measuring real-time temperature.

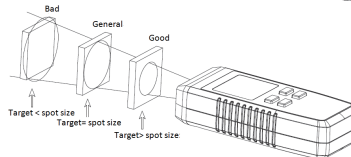
Distance and spot size



Field of view

Make sure the target is larger than the spot size.

The smaller the target the closer measure distance. Suggest distance \leq (15cm/6 inch).



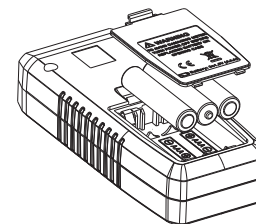
VIII. Maintenance

Clean

- Lens cleaning: blow off loose particles using clean compressed air. Gently brush remaining debris away with a moist cotton cloth.
- Case cleaning: clean the case with a damp cloth and mild soap.

Battery replacement

Replace the battery as the below shown



UNI-T
UNI-TREND TECHNOLOGY (CHINA) CO., LTD.
 No.6, Gong Ye Bei 1st Road,
 Songshan Lake National High-Tech Industrial
 Development Zone, Dongguan City,
 Guangdong Province, China
 Tel: (86-769) 8572 3888
<http://www.uni-trend.com>

说明书菲林做货要求:

序号	项目	内容	
1	尺寸	展开尺寸: 210*140mm 折后尺寸: 140*52.5mm	
2	材质	60g书纸	
3	颜色	单色双面印刷	
4	外观要求	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	无	
6	表面处理	无	
7	其它	无	
版本		REV.1 修改成股份有限公司	
DWH 设计		黄荣伟2018.06.25	MODEL 机型: UT306A
CHK 审核			Part NO. I/P/N: 物料编号: 新P/N110401106696X
APPRO. 批准			UNI-T 优利德科技(中国)股份有限公司 UNI-TREND TECHNOLOGY (CHINA) CO., LTD.