UNI-T Infrared Thermometer UT30R User Manual

Contents

UNI-T Infrared Thermometer UT30R

LIMITED WARRANTY AND LIABILITY

Uni-Trend guarantees that the product is free from any defect in material and workmanship within one year from the purchase date. This warranty does not apply to damages caused by accident, negligence, misuse, modification, contamination or improper handling. The dealer shall not be entitled to give any other warranty on behalf of Uni-Trend. If you need warranty service within the warranty period, please contact your seller directly. Uni-Trend will not be responsible for any special, indirect, incidental or subsequent damage or loss caused by using this device.

OVERVIEW

UT30R Non-contact Infrared Thermometer {hereinafter referred to as “thermometen. This product measures temperature by collecting the infrared thermal radiation energy emitted by target surface.
UT30R has advantages of simple and sanitary operation, quick and accurate measurement. It can measure temperature precisely within 1 s by aiming the detector at target object.
It is not allowed to be used in the presence of a mixture of flammable anesthetic gas, air, oxygen or nitrous oxide.
UT30R is a continuous operating device.
This product is composed of infrared sensor, circuit components, operating buttons and plastic shell.

SAFETY INSTRUCTION &warning:

To use the product properly, please read the following instructions carefully before use:

• To ensure safety and accuracy of measurement, only qualified maintenance personnel can repair it with original components.
• Replace the battery immediately once the battery indicator appears.
• Prior to using the thermometer, please check the box. If any damage to the thermometer were found, please do not use it. Inspect for damage or any shortage of parts.
• Do not place the thermometer near the objects with high temperature for long period.
• It is recommended to operate the thermometer within the environment of 15•c-3o•c and RH<85%.
• Please use the thermometer indoor and do not expose it to strong sunlight or intense electromagnetic interference.
• Please ensure the temperature around the measuring object is stable, do not test during strong airflow.
• Avoid testing in unstable temperature environment – wait 30min to allow the thermometer to stable.

• Wait 10-30min to measure if the measuring object came from very high or very low temperature.
• Please wait 10min to measure new objects after measuring very high or very low temperature.
• It is recommended to measure thrice for every object and the highest oocurring data should be used.
• Please accurately aim the sensor window at the measuring target. Otherwise error or HI/LO indicator will appear.
• Please keep the battery out of the reach of children, children may accidentally ingest. Contact with doctor immediately if that happens.
• If the thermometer will not in use for long period, please take out the battery to avoid leakage. The battery is not allowed to be placed in fire.
• Not for medical use

SPECIFICATION

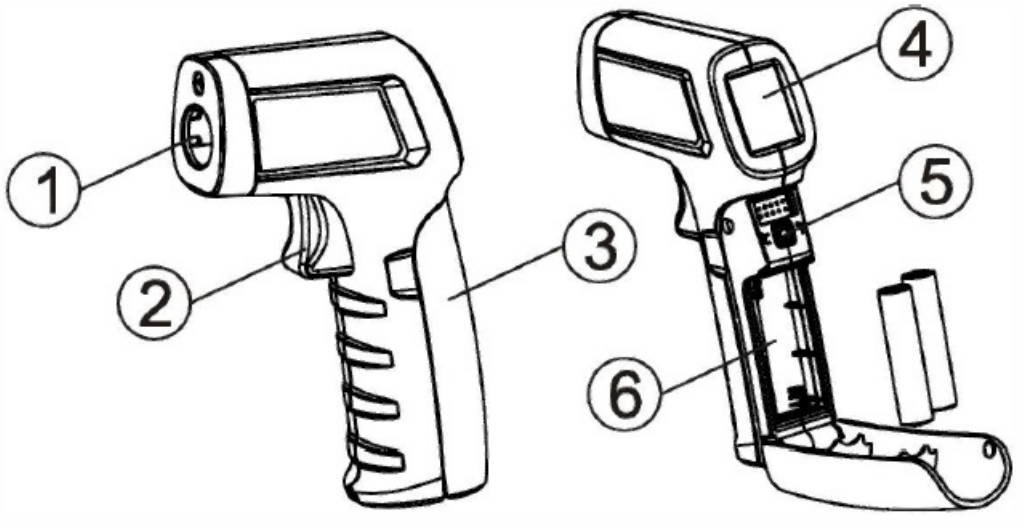
Temperature range	32•c-45•c {89.6˚F-113•F)
General accuracy	±0.3˚C {0.6˚F)
Optimum measuring distance	5-10cm
Response time	500ms {95% of reading)
Optical response	5.5µm-14µm
Repeatability	0.3˚C {0.6˚F)
High-temperature alarm	Screen flashing alarm for >37.2˚C
Battery type	AAA {LR03) 2″1.5V
Maximum battery life	20h
Product size	135mm”94mm”36mm
Product weight	148g {batteries included)
Operating environment	15•c-3o•c {59˚F-86˚F), <85%RH
Transport and storage environment	-2o·c-so·c {-4˚F-140˚F), <85%RH

± 10c or 20% error of measurement can be caused by intense electromagnetic interference. If the abnormal change is observed, move the thermometer away from the electromagnetic area to recover.

FEATURES

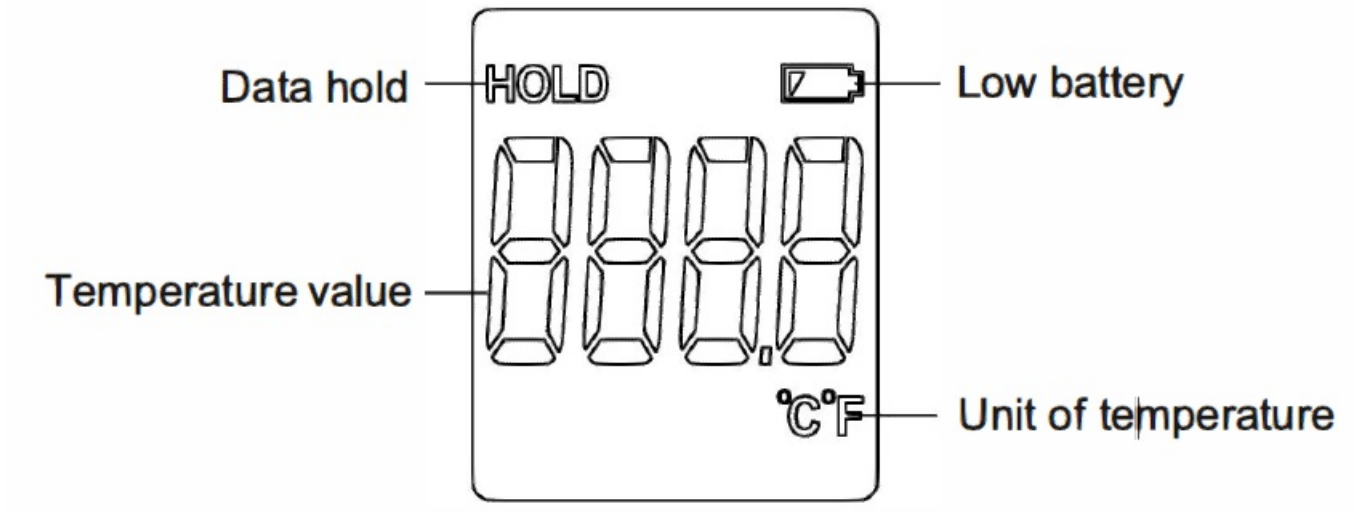
- Single button operation
- LCD display with backlight for dark condition
- Auto data hold for 8s
- Auto power off
- Low voltage indication
- Option of Celsius/Fahrenheit
- Power-off memory function

PRODUCT APPEARANCE DESCRIPTION



1. Infrared sensor
2. Trigger
3. Battery cover
4. LCD
5. Celsius/Fahrenheit switch
6. Battery compartment

LCD FUNCTION DESCRIPTION



OPERATION

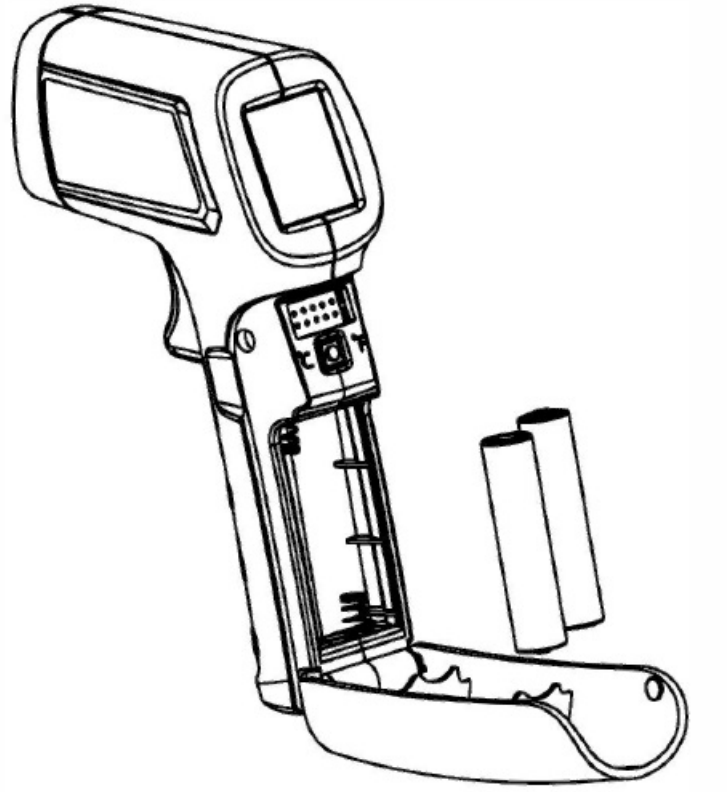
Power on
Push the trigger to turn on the product and its self-inspection.
Temperature measurement
Aim the thermometer at the measured target, push and hold the trigger to display the real time measured result on LCD.
HOLD
Loose the trigger to hold the final measurement data and HOLD icon on LCD. Thermometer will automatically shut down if no action was detected out within 8s.
Unit setting
Open the battery compartment under power-on state, short press •crF button to switch the temperature unit to be 0c or 0 F.

FAULT DIAGNOSIS

Sympton	Problem	Action
Hi (on the screen)	Target temperature exceeding range	Stop measurement
Lo (on the screen)	Target temperature lower than range	Stop measurement
Err displays after startup	The operating temperature is out of range	Place the device in the environment of 0°C~50°C (32°F~122°F) for 30min to recover
Battery icon flashes	Battery low	Replace battery

BATTERY REPLACEMENT

Open battery cover to take out the battery. Load 2 new AAA batteries and make sure the batteries are placed correctly .



MAINTENANCE

The thermometer is a repeatedly-used accurate device. Please pay attention to clean and maintenance. Especially keep the lens clean, or the accuracy may be affected.

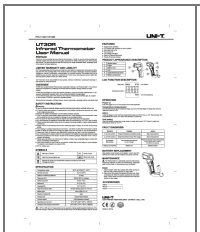
Clean:

1. **Clean chassis:** Clean the chassis with cotton sponge or soft cloth with medicinal alcohol or clean water.
2. **Clean lens:** Blow away the slipped off grains with clean compressed air. Wipe the surface carefully with wet cotton swab. Cotton swab should be moistened with medicinal alcohol or clean water.

ACCESSORIES

- Battery——- 2
- Manual——- 1
- Device ——— 1

Documents / Resources

	UNI-T Infrared Thermometer UT30R [pdf] User Manual Infrared, Thermometer, UT30R, UNI-T