UNI-T UT30R Digital Infrared Thermometer User Manual

3DR
Infrared Thermometer
User Manual

Contents

PREFACE

Thank you for purchasing the new infrared thermometer. In order to use this product safely and correctly, please read this manual thoroughly, especially the Safety Instructions part. After reading this manual, it is recommended to keep the manual at an easily accessible place, preferably close to the device, for future reference.

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 “thermometer. This product measures temperature by collecting the infrared thermal radiation energy emitted by the target surface.
UT30R has the advantages of simple and sanitary operation, quick and accurate measurement. It can measure temperature precisely within 1 s by aiming the detector at the 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 continuously operating device.
This product is composed of infrared sensors, circuit components, operating buttons, and a 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 objects with high temperatures 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 an unstable temperature environment – wait 30min to allow the thermometer to be stable.
- Wait 10-30min to measure if the measuring object came from a very high or very low temperature.
- Please wait 10min to measure new objects after measuring very high or very low temperatures.
- It is recommended to measure thrice for every object and the highest occurring data should be used.
- Please accurately aim the sensor window at the measuring target. Otherwise, an error or HI/LO indicator will appear.
- Please keep the battery out of the reach of children, children may accidentally ingest it. Contact a doctor immediately if that happens.
- If the thermometer will not be in use for a long period, please take out the battery to avoid leakage. The battery is not allowed to be placed in the fire.
- Not for medical use

SYMBOLS

	Warning or Caution
	Read the manual before use
	Dispose of the device and accessories properly according to local waste management polic y.
	Direct current
	Black body mode

SPECIFICATION

Temperature range	3TC-45C (89.6'F-113•F)
General accuracy	30.3t co"
Optimum measuring distance	5-10an
Response time	500ms (95% of reading)
Optical response	5.5unr-14um
Resolution	Olt (0.1•F)
Repeatability	0.3sC (0.8*F)
High-temperature alarm	Screen flashing alarm for >37.2°C
Battery type	AAA (LR03) 2″1.511
Maximum battery life	a20h
Product size	135mm'94mni'36mm
Product weight	148g (batteries included)
Operating environment	15″C-304C (59°F-86°F). <85%RH
Transport and storage environment	-20°C-60t (-41F-140°F). <85%RH

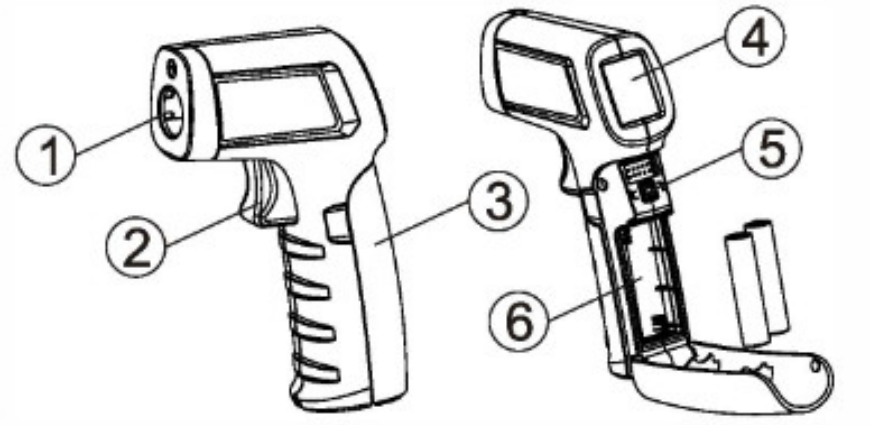
 ± 1 0°C or 20% error of measurement can be caused by intense electromagnetic interference. If the abnormal change is observed, move the thermometer away from the electromagnetic area to recover.

FEATURES

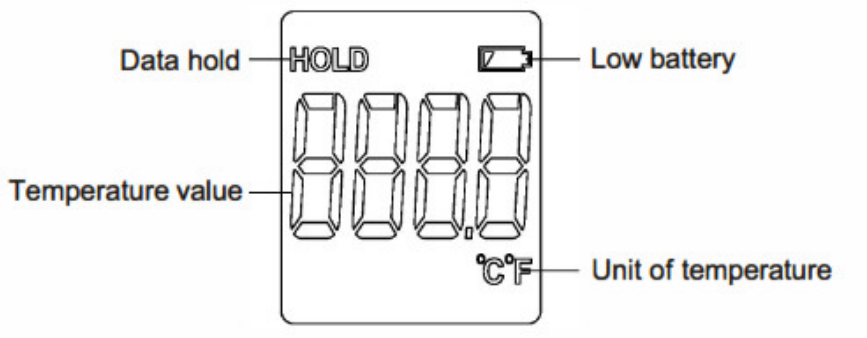
- Single-button operation
- LCD display with backlight for dark condition
- Auto data hold for 8s
- Auto power off
- Low voltage indication
- Option of Celsius/Fahrenheit
- Power-off memory function

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
the measured result on LCD.
HOLD
Lose the trigger to hold the final measurement data and HOLD icon on LCD. The thermometer will automatically shut down if no action was detected out within 8s.
Unit setting
Open the battery compartment under the power-on state, short press the ºC /ºF button to switch the temperature unit to be ºC or ºF.

FAULT DIAGNOSIS

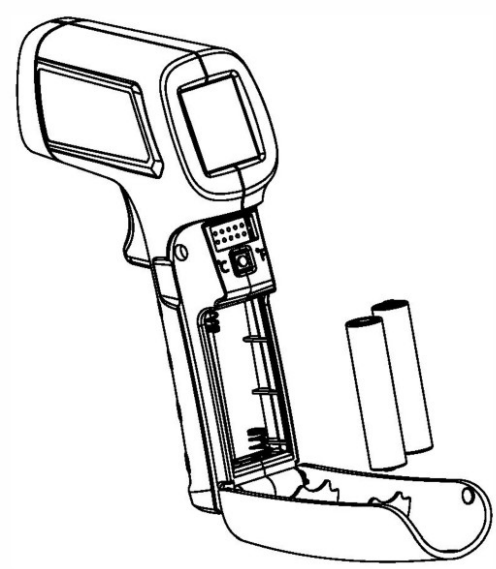
Symptom	Problem	Action
Hi (on the screen)	Target temperature exceeding the r ange	Stop measurement
Lo (on the screen)	Target temperature lower than the r ange	Stop measurement
Err displays after startup	The operating temperature is out of range	Place the device in the environment of 0º~ 50Cº (32º Fº~ 122 ºFº) min t o 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

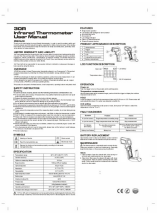
The thermometer is a repeatedly-used accurate device.
Please pay attention to cleaning and maintenance. Especially keep the lens clean, or the accuracy may be affected.



Clean:

1. Clean chassis: Clean the chassis with a 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 a wet cotton swab. A cotton swab should be moistened with medicinal alcohol or clean water.

Documents / Resources

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