UT305H

Forehead Infrared Thermometer User Manual

Dear User

Thank you for purchasing your new infrared thermometer. In order to use this product safely and correctly, please read this manual thoroughly, please pay particular attention to the precautions.

After reading this manual, it is recommended to keep it in at an easily accessible place, preferably close to the device, for future reference.

Limited Warranty and Liability

Di-LOG guarantees that the product is free from any defect in material and workmanship within the first year from the date of purchase. The warranty does not apply to damage caused by accident, negligence, misuse, modification, contamination, or improper handling. If you need warranty service within the warranty period, please contact your us directly.

Di-LOG will not be responsible for any special, indirect, incidental, or subsequent damage or loss caused by using this device.

Introduction

The UT305H 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 temperature measurement.

⚠ Precautions

- To ensure proper use of the thermometer, please read this manual carefully before use.
- To ensure safety and accuracy of the thermometer, it should only be repaired by a qualified professional using original replacement parts.
- If the battery symbol on the LCD flashes, please replace the battery immediately to prevent inaccurate measurement.
- Inspect the product case before using the thermometer. Do not use the thermometer if it appears damaged. Look for cracks or missing plastic.
- Avoid keeping the thermometer near high temperature environments for long periods.
- To ensure measurement accuracy, please use the thermometer in the operating environment [15°C - 30°C, <85% RH (non-condensing)].
- Please use the thermometer indoors where possible.
- The ambient temperature of the measured object must be stable, and it should not be measured in places with large airflow such as fans or air conditioning ventilation.
- When changing to a new environment, please leave the thermometer for 30 minutes before use.
- When the target object is transported from a place where there is a large difference in temperature from where you intend to take your measurement, leave the object in the vicinity of where you intend to take the temperature measurement for 10 to 30 minutes to improve accuracy.
- Do not use the thermometer in places with direct sunlight or electromagnetic interference.
- After measuring extremely high or low temperature objects, please leave the thermometer for 10 minutes before next use.
- It is recommended to take three measurement of the target object and record the highest or lowest displayed reading.
- Direct the IR (infrared) sensor lens to face the target object during measurement observing the optimal measuring distance outlined in the specification, failure to observe this will cause inaccuracies from the actual temperature of the target.
- **Infrared Thermometers are not designed to diagnose any medical condition and are designed to indicate temperature differential between two target objects.**

Specifications

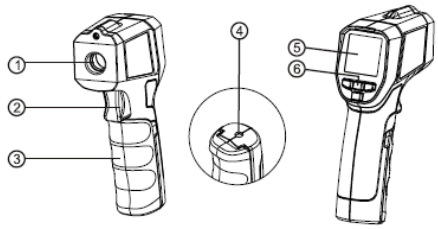
Measuring range	32°C- 42.9°C (89.6°F - 109.2°F)
LCD size	30mm•3omm
LCD display	TN LCD
Accuracy	±0.3°C (±0.6°F)
Optimal measuring distance	5cm-10cm
Repeatability	0.3°C (0.6°F)
Response time	250ms (95% of reading)
Spectral response	8μm-14μm
Auto power off	15s
Low battery indication	✓
High temperature LED alarm	>37.2°C: orange light alarm (37.2°C: green light)
High temperature audible alarm	>37.2°C: audible alarm
Data hold	✓
Unit conversion (°Ci° F)	✓
Operating environment	15°C- 30°C (59°F- 86°F), <85% RH
Transportation/Storage environment	-20°C- 60°C (-4°F- 140°F), <85% RH
Battery type	9V battery (6F22)
Battery life	Continuous temperature measurement: ≥9 hours for the alkaline battery; ≥4 hours for the carbon battery
Accessories	Battery, user manual

Product Features

- Bright, easy-to-read, and high-contrast display
- With two-color (orange and green) LED and buzzer alarm functions
- With tripod mounting hole (¼ inch)

Instrument Layout

1	Infrared sensor lens
2	Trigger
3	Battery cover
4	Tripod mounting hole
5	LCD display
6	Control Buttons



LCD Description

	Buzzer indicator
HI OK LO	Temperature measurement alarm indicator
SCAN	Temperature measurement indicator
HOLD	Temperature hold indicator
C° F°	Temperature unit indicator
8888	Display of the measured temperature

Operating Instructions

Power On

In the off state, a short press of the trigger will turn the thermometer on.

Power Off

In the HOLD mode, if there is no operation for 15s, the thermometer will automatically power off.

Manual Measurement

1. Squeeze and hold the trigger after aiming at the measured object. The SCAN icon will be flashing indicating that the target temperature is being measured. The measurement result will be updated on the LCD.
2. Release the trigger, the SCAN icon disappears, and the HOLD icon appears, indicating that the measurement has been stopped and the last measured value is held.
3. When the measured temperature exceeds 37.2°C, the HI icon is displayed, the orange LED light is illuminated, and the audible buzzer will sound.

Temperature Unit Setting

In the HOLD interface, short press the SET button to enter the temperature unit setting interface, and switch between °C and °F by pressing the ▼ button or ▲ button.

Audible Alarm Setting

In the HOLD interface, short press the SET button twice to enter the audible alarm setting interface, and turn on/off the audible alarm by pressing the ▼ button or ▲ button

Maintenance

General Maintenance

⚠ As the thermometer is a reusable instrument, please pay attention to cleaning and maintenance before use. If it is not in use for long periods, please keep the lens clean and dust free.

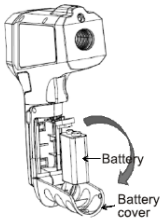
1. Clean the case: Wipe dirt with a clean soft cloth or cotton swab dipped in medical alcohol or water.
2. Clean the lens: Use clean compressed air to blow off loose particles. Carefully wipe the surface with a cotton swab dipped in medical alcohol or water.

Battery Replacement

⚠ If the thermometer is not in use for a long duration, please remove the battery to prevent battery leakage. Dispose of used batteries properly in accordance with local regulations.

To replace the battery:

1. Open the battery cover.
2. Replace with a 9V battery (6F22), noting the polarity.
3. Close the battery cover.



Troubleshooting

Symptom	Cause	Action
HI appears	Measured value is greater than the maximum range	Stop measuring
LO appears	Measured value is less than the minimum range	Stop measuring
Err appears at booting	Exceeding the minimum or maximum operating temperature	Place the thermometer in a 0°C- 50°C (32°F- 122°F) environment for 30 minutes
Battery symbol flashes	Low battery	Replace the battery

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