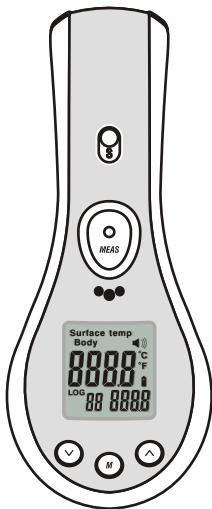# Non-Contact IR Thermometer
User Manual

Note: This is not a medical diagnostic device and is intended to provide indicative readings only.
It should be used in conjunction with advice from a doctor or other clinical professional.

Please read this manual before switching the unit on.
Important safety information inside.

Contents

1. Considerations and Warnings
• Congratulations on your purchase of the Non-Contact Infrared Thermometer. This thermometer is specially designed to take the body temperature,but can also used to measure the surface temperature like food, baby-bottle, room temperature, etc.
• Set "Body" mode for body temperature measurement and "Surface" mode for surface temperature measurement.
• To obtain stable and reliable measurement reading,if there is significant change in room temperature, allow it at least 15 minutes to acclimate to room temperature before making measurements.
• Do not immerse this meter in the water, it is non-waterproof.
• Clean the surface gently with alcohol.Do not use any solvents to clean the meter.

2. Importance
Please use the right type of battery and pay attention to the battery polarity, to protect the meter from being damaged.

3. Features
•Bluetooth interface with Meterbox iCare app.
•Precise non-contact measurements
•Selectable Body and Surface temperature
•User selectable ºC or ºF
•Set Alarm value
•Memorization of the last 32 measurements
•Automatic Data Hold & Auto power off
•Automatic selection range
•Display Resolution 0.1ºC (0.1ºF)
•Backlight LCD display
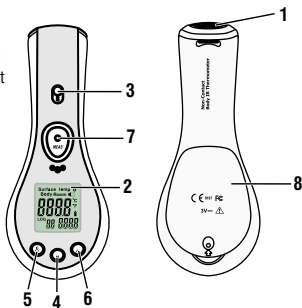
4. Specifications
4-1. General Specifications

Body temperature range	32.0℃ to 42.5℃/ 89.6°F to 108.5°F
Surface temperature range	0℃ to 60℃(32°F to 140°F)
Basic accuracy	±0.3℃/±0.6°F
Measuring distance	5-15CM
Response time	0.5s
Overrange indication	LCD will show "Hi"/"Lo"
Emissivity	0.95 fixed value
Spectral response	8~14um
Power off	Automatically shut off after approx. 7 seconds
Operating temp.	10℃ to 40℃ (50°F to 104°F)
Storage temp.	-20℃to 60℃(-4°F to 140°F)
Humidity Rate	10%~90%RH (storage), <80%RH (operating)
Power	DC 3V (2×1.5V "AA" batteries)

Field of View

Make that the target must be larger than the spot size. The smaller the target, the meter should be more close to the target. If the accuracy is extremely important, the target must be more than twice larger than the spot size.

4-2. Meter Description
1. IR Sensor
2. LCD display
3. Body/surface switch
4. MODE button
5. ▼ Button
6. ▲ Button
7. Measurement button
8. Battery compartment

4-3. Display
1. Surface mode
2. Body mode
3. Temperature display
4. Low battery icon
5. Memory location
6. Memory temperature display
7. °C/°F icon
8. Alarm active
9. Bluetooth on symbol

5. Operating instructions

5-1. Long press 🛞 button to swith bluetooth on/off.

5-2. Hold the meter by its handle and point it toward the surface to be measured.

5-3. Press the trigger to turn the meter on and take a temperature reading. If the battery power is enough, the LCD will light; If the LCD won't light or the low battery icon flashes, please replace new batteries.

5-4. Data memory

The meter can record the measured readings automatically and appears in the lower right display. To review the logged data points, press both the ▲ and ▼ buttons for 2 seconds while the unit is OFF. Use the ▲ or ▼ buttons to scroll through the memory locations. To clear logged data, select the "0" memory location and press the MODE button. The unit will beep twice to indicate memory has been cleared.

5-5. Body or surface temperature mode setting
Surface temperature mode settings

• **Temperature Unit setting**

Press "MODE" button for 2 seconds, F1 will appear in the display. Release the button, Press ▼ button for degree Celsius, ▲ button for degree Fahrenheit

• **Alarm setting**

Press "MODE" button for 2 seconds, F1 will appear in the display. Press "MODE" button a second time, F2 will appear in the display. Release the button, press ▲ or ▼ button to set alarm value.

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• Buzzer ON/OFF setting

Press "MODE" button for 2 seconds, F1 will appear in the display. Press "MODE" button a third time, F3 will appear in the display. Release the button, press ▲ button to start the buzzer and ▼ button to stop it.

• Exiting the Setting Mode

Keep pressing "Mode" button until the display is off.

Body Temperature Mode settings
• Temperature Unit setting

Press "MODE" button for 2 seconds, F1 will appear in the display. Release the button, Press ▼ button for degree Celsius, ▲ button for degree Fahrenheit.

• Alarm setting

Press "MODE" button for 2 seconds, F1 will appear in the display. Press "MODE" button a second time, F2 will appear in the display. Release the button, press ▲ or ▼ button to set alarm value.

• Correction Mode (Only for the BodyMeasurement Mode)

To adjust the total variation of the Non-contact Body Infrared Thermometer, press "MODE" button for 2 seconds, F1 will appear in the display. Press "MODE" button a third time until F3 appears in the display. Release the button, press ▲ button to increase 0.1°C (0.1°F) each time or ▼ button to reduce 0.1°C (0.1°F) each time.

Calibration Methods: the Infrared Thermometer is calibrated according to the reading of mercury thermometer. Firstly, measurement of a human body with normal temperature by mercury thermometer, then measurement of his forehead by the IR thermometer,enter the meter into F3 mode and increase or decrease the difference value by press ▲ or ▼ button.

• **Buzzer ON/OFF setting**

Press "MODE" button for 2 seconds, F1 will appear in the display. Press "MODE" button a third time, F3 will appear in the display. Releasethe button, press ▲ button to start the buzzer and ▼ button to stop it.

• **Exiting the Setting Mode**
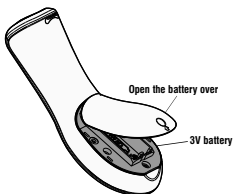
Keep pressing "Mode" button until the display is off

5-6. Release the Trigger and the reading will holdfor approximately 7 seconds after which the meter will automatically shut off.

5-7. In the Body Temperature Mode, if the temperature goes above 42.5°C or 108.5°F , Hi will appear in the display; while goes below 32°C or 89.6°F , Lo will appear in the display.

In the Surface Temperature Mode, if the temperature goes above 60°C or 140°F, Hi will appear in the display; while goes below 0°C or 32°F, Lo will appear in the display.

6. Battery Replacement

When the low battery symbol 🔋 appears on the display, replace new batteries (2×1.5V "AAA" battery). The battery compartment is located on the bottom of the handle. Open the compartment by removing one screw and sliding the cover off. Replace the new batteries and close the battery compartment cover.

Open the battery over

3V battery