

Product Instruction

Non-contact Infrared Forehead Thermometer

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1、Description

The item is a kind of professional non-contact electronic thermometer measuring one's forehead. It is used widely in family and complies with the standard of ASTM1965-199, Its result varies a little bit according to different human's skin and body parts. The fact is that uncovered parts should be affected by the temperature of environment more than covered parts.

2、Safety Notes

- Please read this instruction carefully before using.
- The environment temperature of using is between 16℃~35℃ and the best is 25℃.
- Please don't leave the items in the environment of which the temperature is higher than 50℃ or lower than 0℃.
- Please keep the item away from electrified object avoiding electric shock.
- The relative humidity of using environment should be lower than 85%.
- Please keep the item away from electromagnetic area such as phone or radio.
- Please don't get the item under the sun, fire or water.
- Please don't use it anymore once it was broken after crushing or drawing into floor.
- Sweat, hair, map or scarf would affect the measuring accuracy.
- Please make sure the distance of measuring is within 5cm.
- You can measure the temperature from the backside of earlobe when there is too much sweat on the forehead to have a correct result, or others.
- If cleaned, please wipe the surface with alcohol.
- If there is any problems, please contact with our distributors and do not repair it by yourself.

3、Features

- 1) Non-contact temperature measuring with high accuracy.

- 2) Choice of °C or °F



Setting method: Press this button "for 8 seconds to switch.

- 3) Alarm value can be set (the preset value of this product is 38 °C)

Setting method: set by default

- 4) Buzzer function (can be on or off)



Setting method: Press this button "once to turn on the buzzer.

- 5) LCD display with backlight can be used by users in dark

Setting method: Press this button "  "once to turn on the backlight.

Press this button "  "for 8 seconds to convert to object measurement, LCD display"temp"; and then press again for 8 seconds to switch to the body measurement, LCD display"Body temp".

- 6) Automatic range selection; resolution is 0.1°C (0.1°F)

- 7) Can store the latest 32 measurement data (press the up and down arrow keys to view the latest 32 measurement data that has been stored)

- 8) Automatic data retention and automatic shutdown.

4、 Tests before using

△ Aim at the target and press the button, LCD would show all dates and signals for about one second.

△ After that , you would hear the sound of click. That means all is completed and the temperature would be showed in the LCD.

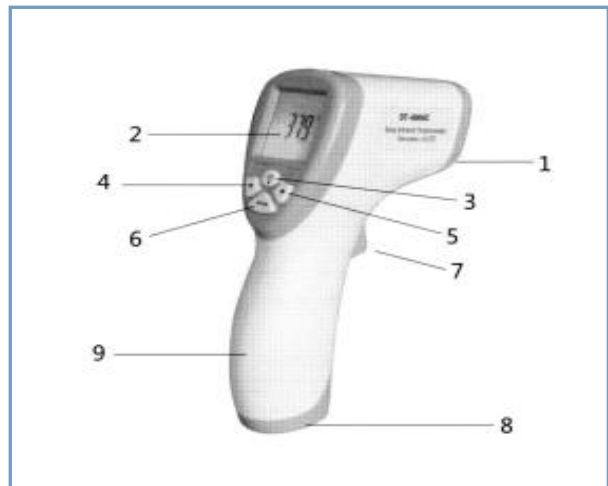
5、 The structure of the product

The item is made of infrared sensor,LCD screen,buttons,shells,handle,battery and circuit board.

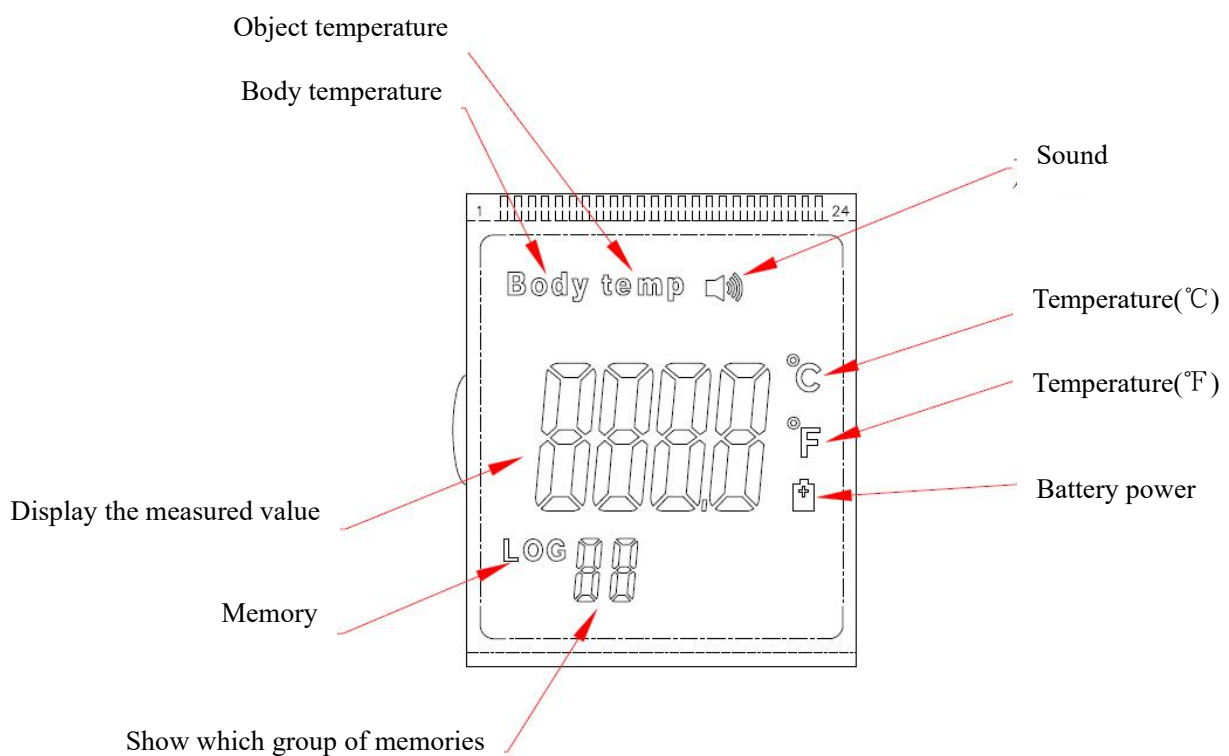
6.3 LRC-168 version

- ①. Infrared sensor

- ②. LCD screen
- ③. Light on/off button
- ④. Up button for checking data
- ⑤. Down button for checking data
- ⑥. Sound button
- ⑦. Measuring button
- ⑧. Battery compartment lid
- ⑨. Handle



6、LCD display description



7、 Technical Parameters

7.1 Basic Parameters

Accuracy	0.1℃ (0.1°F)
Storage condition	0-40℃ (32~122°F)
Working condition	16℃~35℃ (25℃ is the best)
Relative Humidity	≤85%
Power supply	DC 3V (2 series AAA batteries)
Size	95*42.5*156mm
Weights	124g
Production Date	Packaging label listed

7.2 Measurement Parameters

Effective temperature range	32.0-43℃
Effective distance	3-5cm (3cm is the best)
Auto power off limit	About 20s

7.3 Measurement Accuracy

32~35.9℃ (93.2~96.6°F)	±0.3℃ (0.5°F)
36~39℃ (96.8~102.2°F)	±0.2℃ (0.4°F)
39~43℃ (102.2~109.4°F)	±0.3℃ (0.5°F)

7.4 Production Service life

Around 40000 times

7.5 Software Version

V1.0

7.6 Using/Storage/Transportation Environment Condition

1) Using Condition:

■Temperature limit: 16℃~35℃, The best is 25℃;

■Relative Humidity: $\leq 85\%$;

■Air Pressure: 70kPa~106kPa

■Power Supply: DC 3V (2 series AAA batteries)

2) Storage/Transportation Condition:

■Temperature limit: 0℃~+40℃;

■Relative Humidity: 10%~85%;

■Ventilated and noncorrosive Environments are requested.

■Crash and shock should be avoided. And don't being got wet in rain or snow.

8、 Measuring instruction

8.1 Methods to change the batteries.

Push the lid in the arrow direction slightly, and then put the batteries in.

■ Note for battery installation and replacement:

1) After the battery cover is opened, place the battery in the direction of the positive and negative electrodes at the place where the batteries are installed. Pay attention to the correct orientation of the positive and negative electrodes.

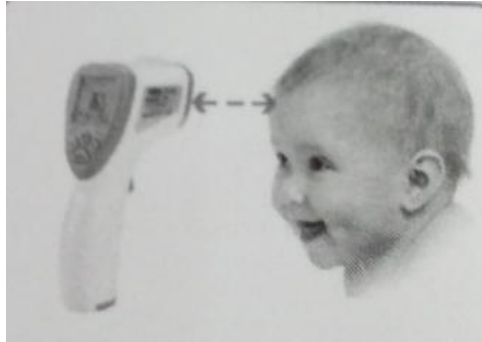
2) Wait for 10 minutes to warm up for the first use or just after inserting a new battery.

3) When the battery power is low, the symbol will appear on the display, prompting to replace the new battery, open the battery compartment lid (see 6 product structure), pay attention to the positive and negative polarity when replacing the new battery. Improper placement may cause damage to the product.

4) Remove the battery when it has not been used for a long time to prolong its service life and prevent damage due to battery leakage.

8.2 Steps of measuring temperature

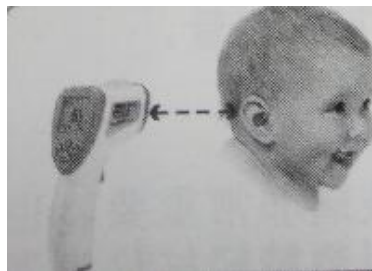
1. Point the thermometer to the center of the forehead (above the center of the eyebrow) and keep it vertical, about 3-5 cm away. Press the measurement switch and the temperature will be displayed immediately.



2. When the measurement switch is pressed (see 6 Product Structure), the current measurement temperature value is displayed on the display, and the measurement data can be automatically stored (press the up and down arrow keys to check the latest 32 measured data that has been stored).

Note:

- 1) Before measuring, make sure that there is no hair, sweat, makeup or hats on it.
- 2) When forehead sweating or other reasons cause the forehead temperature does not reflect the body temperature normally, please measure after aiming at the earlobe, and make sure that there is no hair, sweat, cosmetics or hat covering.



- 3) The non-contact infrared forehead thermometer has not been used for a long time, the first time the machine is opened for environmental temperature detection, and the boot time is extended by 1 to 2 seconds.

9、 Healthy temperature range for reference

9.1 Normal body temperature range at different measurement locations

The human body is a very complex biological comprehensive system. Body temperature is an important data indicating whether human life activities are normal. Usually we check our health by measuring the temperature of the forehead, cochlea, anus, mouth and armpit. It is measured in different parts. Body temperature varies, please refer to the table below for

specific differences:

Measurement Parts	Normal temperature (°C)	Normal Fahrenheit (°F)
anus	36.6~38	97.8~100.4
Oral cavity	35.5~37.5	95.9~99.5
armpit	34.7~37.3	94.4~99.1
ear	35.8~38	96.4~100.4
forehead	36~37.2	97.4~98.4

9.2 Normal body temperature range at different ages

A person's body temperature changes at different times of the day, and is also affected by other external conditions, such as age, gender, skin color, fatness, etc. For the normal temperature range of different age groups, please refer to the table below:

Age	Normal temperature (°C)	Normal Fahrenheit (°F)
0~2 years	36.4~38.0	97.5~100.4
3~10 years	36.1~37.8	97.0~100.0
11~65 years	35.9~37.6	96.6~99.7
>65 years	35.8~37.5	96.4~99.5

Note:

Women's body temperature is different from men's, generally about 0.3 °C higher than men's, body temperature during ovulation will rise 0.3 °C -0.5 °C than usual.

10、 Advice

·The protective glass outside the LCD frame is very important, and it is also the fragile part of the instrument. Please use it carefully.

·Do not charge non-rechargeable batteries and do not throw them into fire.

·Do not expose the product to the sun, and do not touch the water.

11、 Clean and Maintenance

11.1 Advice of cleaning

- 1) The probe part is the most precise part of the product and must be carefully protected.
- 2) Do not use abrasive cleaners to clean the product.
- 3) Never immerse the product in water or other liquids.
- 4) Keep this product in a dry place to avoid dust, pollution and direct sunlight.
- 5) Please clean the non-contact electronic thermometer regularly, usually once a month. If necessary, you can clean it properly according to the actual soiling of the product. Use a dry soft cloth to clean the non-contact electronic thermometer. If the instrument is extremely dirty, use a cotton cloth or cotton swab with an alcohol content of 70% to clean and disinfect the case and sensor head (the infrared detector cannot be wiped). Be careful not to allow liquid to penetrate the inside of the thermometer.

11.2 Product Maintenance

If you encounter the following problems during use, please follow the instructions in the maintenance instructions to find a solution. If the problem persists, please contact our customer service.

1) LCD cannot display the value

If it is lower than 32 °C or higher than 42.9 °C in the body measurement state, the LCD will not display data, and display "Lo" or "Hi".

2) LCD display message "Hi"

Use non-contact electronic body temperature timer, LCD display message "HI", indicating that it has exceeded the measurement range or the temperature is higher than 42.9 °C in human temperature measurement mode.

3) LCD display message "Lo"

Using a non-contact electronic body temperature timer, the LCD displays the message "Lo", indicating that the measurement temperature is lower than the measurement range or the temperature is lower than 32 °C in the human body temperature measurement mode.

The information "Lo" or "Hi" appears in the following situations for reference:

Reasons for "Lo" or "Hi"	Advice
Temperature value is affected by hair and sweat.	Ensure no obstructions during temperature measurement.
Temperature is affected by changes in airflow.	Ensure that the air remains stable during temperature measurements.
The measurement distance is too far.	Please note that the measurement distance should not be greater than 5 cm.
Enter indoors from low or high temperature outdoors.	Please wait for 20 minutes and wait for the subject's temperature to adapt to the measurement environment before measuring.

12、Waste disposal instructions

■ Disposing electronic products and batteries directly in the trash can cause harm to the environment. Please dispose of them in accordance with the laws in your area.

■ Do not discard the non-contact electronic thermometer at the end of its use. Please dispose of it according to the laws in your area, or contact the manufacturer for recycling.

15. Electromagnetic compatibility warning



Note:

- The non-contact electronic thermometer meets the requirements of YY0505-2012 standard electromagnetic compatibility.
- The user should install and use the electromagnetic compatibility information provided in the random files.
- Portable and mobile RF communication equipment may affect the performance of non-contact electronic thermometers, and avoid strong electromagnetic interference when using, such as near mobile phones, microwave ovens, etc.
- Guidelines and manufacturer's declarations are detailed in the attachment.



Warning:

- The equipment or system should not be used close to or stacked with other equipment. If it must be used close to or stacked, it should be observed to verify that it can operate normally in the configuration in which it is used.