

1. The Product

This product measures the body temperature through receiving the infrared energy radiation from human body. It is easy, hygienic and accurate. The user only need to point the infrared probe to the forehead or ear canal and press measurement button, the body temperature will be shown on the LCD screen in 1 second. The product is widely used in home health care and medical institutes to measure body temperature. It is an intermittent operation device. It can not be used in any flammable gas and air, oxygen, or a combination of Nitrous oxide gas. This product is mainly composed of infrared sensor, signal processor, button, buzzer, LCD screen and battery.

2. Basic operation principle

Any object emits infrared radiation energy whose energy magnitude and wavelength is determined by its surface temperature. The wavelength from human body is 5~15 μm . This product adopts the imported high precise infrared sensor to measure the wavelength released by human body to accurately measure the body temperature with precise calculation and various compensation correction.

3. Product features

- Body (ear/forehead) & room temperature measurement
- Complete measurement in 1 second
- Fever alarm indication
- LCD display screen in dual color (green and red), clear and soft
- Fahrenheit and Celsius mode available
- 32 memories recall function

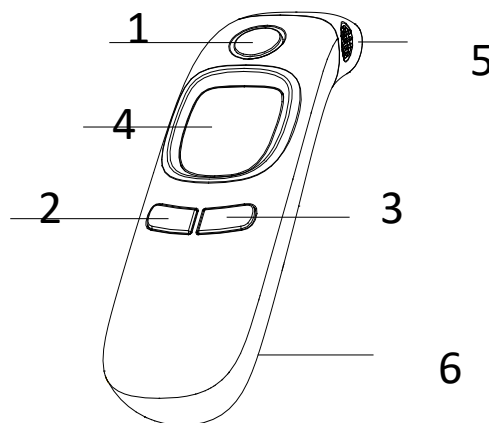
4. Technical parameters

Measurement method	Contact-Type
Measurement range	Body: 32°C~42.9°C (89.6°F~109.2°F)
	Object: 0°C~100°C (32°F~212°F)
Measurement accuracy	Body: Within (35°C~ 42°C): $\pm 0.2^\circ\text{C}$ (0.4°F)
	Beyond (35°C~ 42°C): $\pm 0.3^\circ\text{C}$ (0.54°F)
Display resolution	0.1°C/0.1°F

Operating environment	Temperature: 10°C~ 40°C (50°F~104°F) Moisture: RH ≤85% (Non-condensing condition)
Storage environment	Temperature: -25°C~ 55°C (-13°F~ 131°F) Moisture: RH ≤90% (Non-condensing condition)
Shutdown time	Automatic shutdown without any operation within 30 seconds
Voltage	DC 1.5VX2(2AAA 7#)
Power consumption	When off ≤30um When measuring ≤20Am
Dimensions	147mm * 30.5 mm *41.0mm
Weight	About 71g(not include battery)












5. Shape structure

- 1.Measurement Button 2.Memory Button 3.Setting Button 4.Display Screen
5.Forehead Mode Cover 6.Battery Cover



6. Display icon definition

Icon Definition	Icon	Definition
Numerical display	888.8	Measuring temperature value display
Battery display		Low battery power indication
Measuring mode		Ear temperature measurement mode
		Forehead temperature measurement mode

		Object temperature measurement mode
Sound indication		Buzzer is on, with prompt sound
		Buzzer is off, no prompt sound
Memory function	M	Displays the latest 32 memory groups of values
Temperature unit	°C/°F	Fahrenheit degree/Celsius degree
	An important warning	
	General compulsion	
	General prohibition	
	Important warning information indicating that users need to refer to the manual	
	Don't dispose with household waste after use	
	Read the operating manual before use	
	Class B medial device	
	Production batch number	
	Manufacture date	
EMC	Group 1 class B equipment	
Accessories	Batteries*1pair/user manual*1pcs/certificate of qualification*1	

7. How to take measurement

After the battery is installed, the screen will be fully displayed, after the backlight is on for three seconds, it will automatically turn off. At this time, you can press the measurement button to enter the temperature measurement mode.

Ear temperature mode:

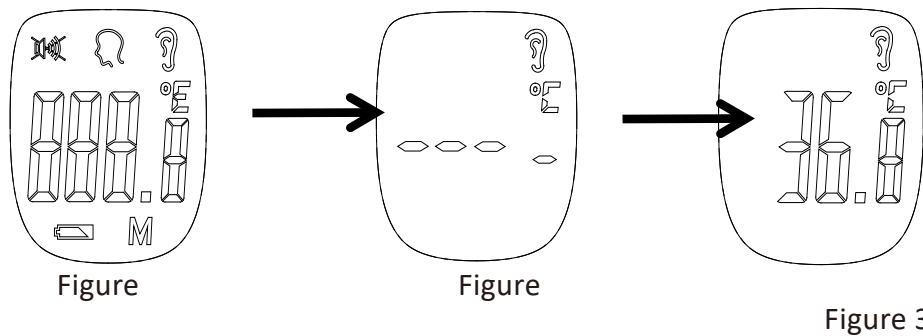
Pull out the forehead temperature cover, insert the probe into the ear, and press the measurement button. When you hear a "beep", the measurement is completed, and the screen displays The measured value (as shown in Figure 3), the next measurement should be performed after the screen is dark.

Remark:

①The default fever alarm value is $\geq 38.0^{\circ}\text{C}$, the red backlight will shown and it will keep beeping.


②The other measurement value default to green backlight. The low fever value is $37.5^{\circ}\text{C} \sim 37.9^{\circ}\text{C}$, we suggest you to consult your doctor.

Warning: Don't press too hard into the ear to avoid damaging the eardrum.



Forehead temperature mode:

Put on the forehead temperature cover and it will automatically switch to the forehead

temperature mode. Confirm , forehead temperature mode and press the measurement button. When the thermometer beeps one time, the measurement is completed and the measurement value will be shown on the screen.

Remark:

①The default fever alarm value is $\geq 38.0^{\circ}\text{C}$, the red backlight will shown and it will keep beeping.

②The other measurement value default to green backlight. The low fever value is $37.5^{\circ}\text{C} \sim 37.9^{\circ}\text{C}$, we suggest you to consult your doctor.

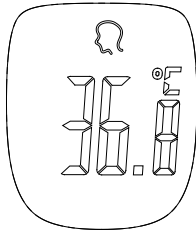


Figure 4

37.5°C~37.9°C, we suggest you to consult your doctor.

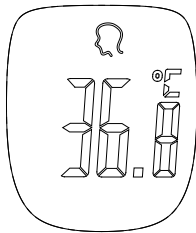


Figure 4

Object temperature mode:

In the power-on state, press the setting key to enter the "F-2" setting interface and display it for 0.5 seconds, then enter as shown in Figure 5, and then press the memory key to switch to the material temperature mode (as shown in Figure 6).After selecting the mode, press the setting key twice to exit to the interface to be measured (as shown in Figure 7) or directly press the measuring key to exit the setting mode and measure the temperature once. Aim the probe at the object to be measured, press the measurement key, when you hear a "beep", the measurement is completed, the screen displays the measured value, and the screen displays the measured value.

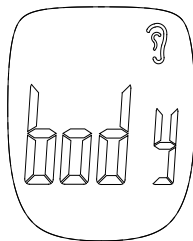


Figure 5

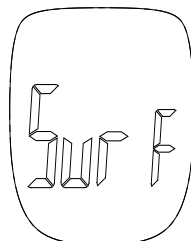


Figure 6

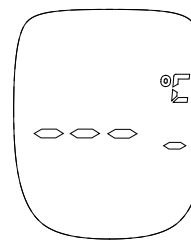


Figure 7

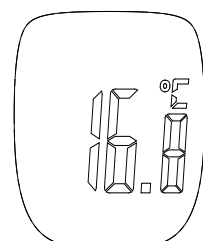


Figure 8

Exceed the temperature measuring range--Body temperature mode:

When the measured value is less than 32°C, the screen shows "Lo"(Figure 9) with beep indication three times, and red backlight will be shown.

When the measured value is higher than 42.9°C, the screen shows "Hi" (Figure 10) with beep indication three times, and red backlight will shown.

Exceed the temperature measuring range--Object temperature mode:

When the measured value is less than 0°C, the screen shows "Lo" with beep indication three times, and red backlight will be shown.

When the measured value is higher than 100°C, the screen shows "Hi" with beep indication

three times, and red backlight will be shown.



When the environment temperature is less than 16°C or higher than 35°C, the screen shows Er1 (Figure 11) which means it is not allowed to be measured or the accuracy of measurement result cannot be confirmed.

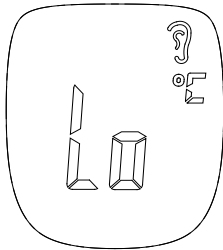


Figure 9

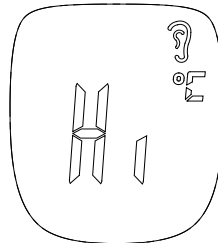


Figure 10

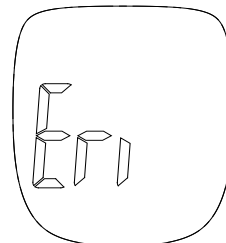


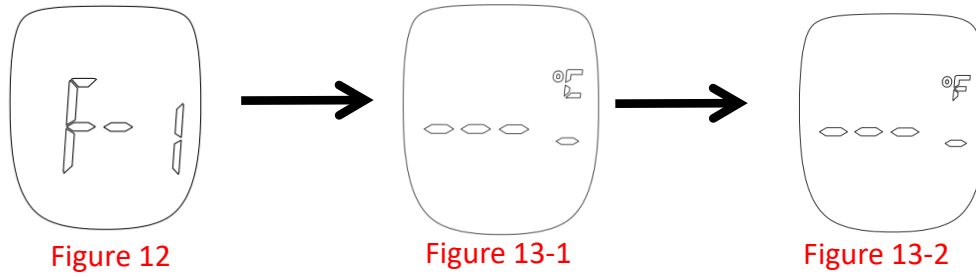
Figure 11

8. Set up method

Temperature unit conversion settings:

In the power on state, press the Setting Button to convert the "°C/°F" unit (note: the default factory setting is (°C). In case of power off, the factory setting will be restored without saving the change Settings).

In the power-on state, short press the Setting Button to display "F-1" for 0.5 seconds, then enter as shown in Figure 12; press the Memory Button to switch the unit of "°C/°F"; press the Setting Button 3 times to exit to the temperature to be measured state, or directly press the Measurement Button to exit the setting mode and measure the temperature once. (Note: The default factory setting is (°C), in case of power failure, the factory setting will be restored, and the changed setting will not be saved.)

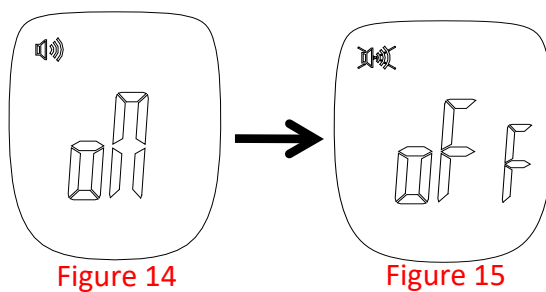


Check memory values:

In the power-on state, short press the memory key to display 01, the memory value will be displayed, and 32 groups of memory values can be viewed.

Sound switch button:

In the power-on state, short press the setting button 3 times to display "F-3" for 0.5 seconds, then enter the sound on or off setting, short press the memory button to select the sound on or off, after selecting the setting, short press the setting button again to return to the temperature to be measured interface or directly press the Measurement Button to exit the setting mode and measure the temperature once.



Bluetooth connection

Product Bluetooth name: BlueTemp

Bluetooth version: 5.0

The data sent by the thermometer through Bluetooth includes: temperature value, temperature unit, temperature mode, and error code;

Error codes include low voltage prompts, ambient temperature too low and too high, and target temperature too low and too high.


Install the APP (developed by BRAV) on a mobile phone, keep the thermometer turned on, click *Start Scan* to search for the connection of the thermometer, and the data measured by the thermometer will be transmitted to the mobile phone in real time.

9. Attention and Warning

1.Attention

- Before use, please read the user manual, and make sure the battery has been installed properly;
- Prohibit the thermometer into any liquid, don't place it for long time in very high or very low temperature environment;
- Avoid collision, falling and mixing with sharp objects, forbidden to disassemble;
- Do not use in strong electromagnetic interference environment;
- Place the thermometer in the position where the child cannot touch;
- Suggest to practice to use the thermometer and get familiar with the measurement methods, try not to change the factory settings;
- The measurement results can not replace the physician diagnosis;
- No other special maintenance is required during use. Please contact the vendor or manufacturer if there is any fault.

2、 Warning:

- People suffering from ear diseases such as otitis externa and otitis media should not use it, as it may damage the ear hole;
- Do not use it after swimming or bathing when your forehead is wet, which may lead to inaccurate temperature measurement;
- High fever or long-term fever needs medical treatment, especially for children cannot judge and treat by themselves, please consult a doctor in time;
-  Keep the battery out of reach of children, or it may cause children to swallow it. If you accidentally swallow the battery, please contact your doctor immediately;
- This product can only replace the battery, if use other parts or materials will reduce Safety.


 Prompt :


1. Use the thermometer in a stable temperature environment. If the environment temperature changes too much, for example from outdoor to indoor, please put the thermometer and wait for about half an hour minutes before measuring ;
2. After measuring extremely high or low temperature object, don't measure body temperatures immediately, you should measure 10 minutes later;
3. When the measured object comes from a place with a large difference from the measured environment temperature, it should stay in the test environment for at least 30 minutes;
4. Avoid using the thermometer when drying the hair, drenching water, sweating, and putting on skin cosmetics.

10. Battery replacement


- Open battery cover, remove the old battery.
- Put in new batteries(7#), pay attention to the direction of the electrodes
- It will beeps after replacement finished, if not, please check the direction of the electrodes.

 Prompt :

 When not used for a long time, please take out the battery, prevent leakage. It is forbidden to put waste battery in the fire;

 Dispose of used batteries in accordance with local laws and regulations to avoid pollution.

11 、 Maintenance and cleaning

 Since the device can be reused, please keep it clean after usage.

● Please keep the sensors and probes inner cavity clean, pay attention to dust-proof, otherwise it will affect the measuring accuracy.

● Cleaning methods :

1. Surface cleaning: use a clean soft cloth or cotton swab stick with the medical alcohol or water to wipe the dirt.
2. Sensor inner cavity cleaning: gently wipe the sensor probe with a clean soft cloth or cotton swab with a little medical alcohol, use it after dry.
3. Earmuff cleaning: gently wipe the surface of earmuff with a clean soft cloth or cotton swab with a little medical alcohol, wait until dry and make sure the surface is free of stains/earwax or other foreign matter.

12. Trouble shooting

Error description	Solution
The scree shows “Lo” or “Hi”	<ol style="list-style-type: none">1. Check the measurement object. It is unable to ensure the measurement accuracy when forehead blowing, dripping, sweating, and with cosmetics.2. Check the operation environment. Environment changes will greatly influence the measurement. If the temperature change is too big or the thermometer tests target of low temperature immediately after being switched from a high temperature measuring. It's better to use after 10 minutes to achieve a new heat balance.3. Check the measure distance(contact type).

Buttons have no response	1. Load and unload the battery 2. Check if the setting is in the progress
No display or abnormal display	Reload the batteries
No prompt voice	Check if the voice setting is turned off.
Shut down immediately after boot-up	Check batteries level or reload the batteries

13 、 EMC information



Warning :

- This product conforms to the related requirements of YY0505 standard electromagnetic compatibility;
- Users shall use the user manual according to electromagnetic compatibility information in the manual;
- Portable and mobile RF communication equipment may affect the performance of this product, please avoid strong electromagnetic interference when using, such as close to the mobile phone, microwave oven, etc;



Warning :

- This product should not be used close to or stacked with other equipment. If it must be used close to or stacked, it should be observed and verified to work normally under the configuration used.

14 、 After-sale service

- This product provides one year free maintenance service
- Service note: The free service not includes the failure and damage caused by user's personal reasons or unauthorized disassembling.
- Please keep purchase vouchers to facilitate future maintenance.