



## PREHEAT EAR THERMOMETER

# ET106 ET107 ET108

### Instruction Manual



#### NOTE:

You must read this instruction manual completely before use and follow all instructions. Keep the instructions for later use. You must check the device function according to this instruction manual prior to each use and only use this device if it is in proper working condition.

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particular, do not start taking any new medication or change the type and/or dosage of any existing medication without prior approval.

This ear thermometer must be operated by adults, ensure that children do not use this device unsupervised; some parts are small enough to be a choking hazard or be swallowed.

If this thermometer is stored condition that is out of its use condition, please put it in operation place for at least 30 minutes before taking the measurement.

When the subject enters a warm room from a cold outdoor environment and wets their ears by swimming or bathing, the ear canal temperature will temporarily be lower than the actual temperature. Please wait for 30 minutes before taking the measurement.

The readings of the left and right ears may differ. When observing changes in body temperature, it is recommended to collect the temperature of the same ear.

The measurement may result in measurement bias when the subject takes medication that may increase or decrease body temperature.

The subject may experience temperature fluctuations after engaging in activities such as intense exercise, crying, and eating. It is recommended to maintain a quiet state for at least 30 minutes before the measurement.

Different types and brands of temperature measurement products do not have comparable value. It is recommended that you use the same temperature measurement product for multiple frequency observations when observing body temperature, in order to better grasp changes in body temperature.

People with ear diseases such as otitis externa and otitis media should not use the ear thermometer.

It is recommended to measure about 3 times during measurement, with a time interval of 12s or more than 12s between each measurement, recommend the maximum temperature as measurement temperature.

Please check the battery level before use, as low battery voltage may affect the measurement accuracy.

If you find that this product cannot achieve the claimed performance or if there is a change in product performance, please stop using it immediately and contact the manufacturer.

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turer for assistance in time.

To ensure an accurate measurement, this thermometer must only be used indoors when the ambient temperature range is between 10°C(50°F) and 40°C (104°F).

Before measurement, please ensure that the probe is free from small foreign objects (such as earwax, dandruff, droplets, etc.). If the probe is dirty, please clean it in a storage box to protect the probe from damage or damage to the ear canal.

When there is a lot of earwax in the ear canal of the subject (especially young children), please clean the ear canal before taking the measurement to avoid affecting the accuracy.

The probe lens is the most vulnerable part of this product, so it must be carefully protected. Please do not touch or blow the probe with your hands. After measuring, please clean the probe with a dry cloth.

Before confirming whether the probe lens is dirty, it is recommended to check the accuracy of the measurement steps, otherwise it may cause measurement errors.

Gently wipe the probe with a cotton swab or soft cloth dipped in 75% alcohol.

Dry and let the device stand for 30 minutes before use.

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Note: Do not use toilet paper or tissue to wipe.

**I. Intended Use**

Ear thermometer is intended to measure ear temperature of people of all ages. It can be used in consumers in household environment and doctor in clinic as reference.

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**II. Warnings And Precautions**

Only use this ear thermometer once you have read and understood the instruction for use.

Only use this ear thermometer for the specific purpose described in the instruction manual. Any misuse will void the warranty.

This ear thermometer may be used for professional purposes or for personal home use.

Using this ear thermometer is no substitute for consulting a doctor. Do not self-diagnose or self-medicate on the basis of the measurements without consulting your doctor. In

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This ear thermometer should not be immersed in water or directly exposed to sunlight to avoid product malfunctions.

This ear thermometer must be kept dry and clean.

Please do not place this ear thermometer in an area with electric shock to avoid product malfunction.

If any problems are found, please contact customer service and do not attempt to repair this product on your own. If the original components are replaced with parts not provided by the manufacturer, it may cause measurement errors.

When there is a lot of earwax in the ear canal of the subject (especially young children), please clean the ear canal before taking the measurement to avoid affecting the accuracy.

The probe lens is the most vulnerable part of this product, so it must be carefully protected. Please do not touch or blow the probe with your hands. After measuring, please clean the probe with a dry cloth.

Before confirming whether the probe lens is dirty, it is recommended to check the accuracy of the measurement steps, otherwise it may cause measurement errors.

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**III. Principle Of Operation Of Ear Thermometer**

All objects, solid, liquid or gas, emit energy by radiation. The greater this energy depends on the temperature of the object. The ear thermometer is able to receive the temperature of a person by the energy that is sent from ear canal. The infrared sensor located at the front end of the device collects the infrared radiation emitted from the ear canal. The sensor converts the received infrared into electrical signals and transmits them to the device chip. The device chip calculates the human body temperature based on the intensity and frequency of the infrared signal received by the infrared sensor.

The goal of thermometry is to measure core body temperature. The goal of the temperatures of the vital organs. Clinical studies showed that the ear is an excellent site of temperature measurement because the temperatures taken in ear can be more accurately reflect core body temperature's changes.

Please use BERRCOM exclusive disposable probe cover (model PC001). If you use other brand's probe cover it may result in inaccurate measurements. To purchase the disposable probe cover, please contact your agent or BERRCOM directly.

Note: The reference body temperature for the ear thermometer is oral temperature.

1. Guyton A C, Textbook of medical physiology, W.B. Saunders, Philadelphia, 1996, p919;

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**IV. Product Description**

1) Hold down the battery cover with your fingers, gently push down to open the battery compartment, and open the battery cover.

To obtain accurate readings, clean and new disposable probe cover should be installed before each measurement.

2) Follow the polarity label in the battery compartment, place the new battery into the compartment and clamp it tightly. During installation, pay attention to the polarity and do not insert it upside down.

3) Finally, replace the battery cover in its original state.

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flashes, it reminds you to put on the probe cover.

④ After inserting the probe into the ear canal and aligning it with the eardrum, short press the "switch/measure" button to measure the temperature. During the temperature measurement process, the screen scrolls to display "- °C", "- °F" and "°C" and "°F".

Notice: The above steps are for use in sleep mode. If the ear thermometer is in mode, the beep will turn off, there will be a mute icon "M" on the screen, and other prompts will keep the same.

Attention: When measuring, the ear thermometer sensor should be inserted into the ear canal and aligned with the eardrum. Otherwise, the measured temperature will be lower than the actual temperature.

⑤ Select age groups.

Press the age selection button "Age" to select the age range of the test object for temperature measurement. Press the button to switch age groups.

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**2. Operate the device**

The correct usage method is the key to measurement accuracy, otherwise it may cause measurement errors. Due to the high requirements of infrared temperature measurement on the surrounding environment, please follow the prompts below for operation.

① Take out the ear thermometer from the storage box.

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**3. Symbols interpretation:**

② Power on and self checking

Press the "Switch/Measure" button, the ear thermometer will turn on and start self checking with a beep sound. During self inspection, the screen displays three full color icons. If the following situations exist, measurement cannot be supported:

③ Probe preheating

This product uses preheating temperature measurement technology. Studies have shown that preheating the ear thermometer for temperature measurement can avoid cooling effects, improve temperature measurement accuracy and comfort.

④ The method of straightening the ear canal:

When measuring temperature, please fix the head of the subject, gently pull the ear canal and align it with the eardrum fully. Specifically, the method of straightening the ear canal is as follows:

⑤ If there is no operation for about 60 seconds after the temperature measurement is completed, the ear thermometer will automatically shut down.

To obtain accurate readings, clean and new disposable probe cover should be installed before each measurement.

⑥ Set the mode.

In sleep mode, all audio beeps muted, the light is off, and no light environment. (For default mode, the light will turn on)

⑦ Set the mode.

In standby mode, press the "Night mode" button, a symbol "M" will appear on the screen, the device will enter the mode and flash light turn on. Press the "Night mode" button again, the symbol "M" on the screen will disappear, the device will enter mode and flash light will turn off.

⑧ Low measurement

When the beeper beeps, it indicates that the temperature measurement is completed and the temperature value is displayed on the display screen.

The screens and sound prompts for different temperature values are as follows:

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⑪ Set the mode.

In standby mode, press and hold the "Night mode" button 5 seconds, and the screen will display "M" and "36.8" in sequence until the desired will display. Release the "Night mode" button, the unit will convert and return to the last temperature measurement object. Specifically, the method of straightening the ear canal is as follows:

⑫ Before each straightening, gently pull the ear canal and align it with the eardrum fully. Specifically, the method of straightening the ear canal is as follows:

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