YHT100/YHT103医用红外耳式体温计CE说明书印刷要求 尺寸:720X142.5mm

色彩:准确、单色,层次分明

纸张: 128g铜版纸

印后加工:8折

1. Device Use And Working Principle

Intended purpose: The intended purpose of the device is to display the body temperature in the ear cavity by thermal radiation. It is intended for use on infants (except for pre-term babies or small for gestational age babies), children and adults. The probe cover is used as a sanitary barrier between the infrared ear thermometer and the ear canal.

Indication: Intermittent measurement of human body temperature from ear canal, not for emergency clinical condition

• Intended users: Health care professional, or lay persons, children under adult help or observation.

Clinical benefits: The device can be used to measure body temperature so as to help to diagnose body condition. The clinical benefit associated with the device is defined as indirect, all intended patient population can experience the

• The infrared ear thermometer is equipped with an infrared sensor, which can ransform the infrared light released by human ear membrane into corresponding electrical signal. The signal is corrected by the amplifier and signal processing circuit according to the internal algorithm of the instrument and the targeted emissivity, and then transformed into the temperature value of the measured human body.

Contraindications:

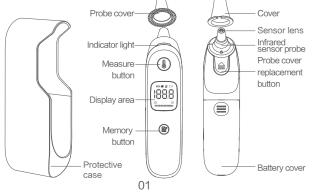
Do not use ear thermometer, if there is inflammation in the ear canal.

t is suggested to use ear thermometer after recovery of the operation or trauma of ear canal.

2. Device Structure And Composition

• The infrared ear thermometer consists of the main engine, probe cover and the cover.

• Detachable parts and materials for use: probe covers, cover, protective case, 2 AA alkaline batteries.





Appendix:

Instructions, 2 AA alkaline batteries, protective case.

3. A Matters Need Attention

Warning

1. The patient can use the thermometer to take the measurement by himself, or someone else can use the thermometer to measure the patient. Either way, the use and maintenance methods are the same.

2.All the servicing and maintenance should be operated before or after use. 3. The infrared ear thermometer belongs to precision equipment do not let children play with it. Be careful not to fall from high, which will affect the accuracy of temperature measurement.

4. The ear thermometer should not be transported without packaging, so as to avoid the influence of mechanical vibration on temperature measurement accuracy.

5. If you do not use it for a long time, please take out the batteries and keep it out of the reach of children. Otherwise, it may be dangerous. In addition, if the battery is not used for a long time, it may cause breakdown due to battery leakage. 6. This product contains sensitive electronic components and should be avoided in the environment with strong electromagnetic interference (such as mobile phones, microwave ovens, etc.) to prevent temporary impact on its accuracy. 7. Please read this instruction manual carefully before use and confirm that the batteries are installed.

8.Do not disassemble, repair or modify this device. It may cause errors in the measurement results or cause device failure.

9.Please keep the probe clean before and after use. When the sensor lens becomes dirty, gently wipe it with a soft dry cloth or cotton swab. Do not wipe it with other objects, or blow the infrared sensor with your mouth. Otherwise it may cause the sensor mirror scratch or machine failure.

10. Device application component materials are certified for biological compatibility Caution:

1.In order to measure the accurate temperature value, when measuring, please make sure that the probe is aligned with the eardrum and closely contacted with the ear canal.

2. The temperature of left and right ears of the same person is usually slightly different. It is better to measure the same ear every time for comparison. 3. The measurement results are only for reference and cannot replace the

diagnosis of doctors. Some people do not have fever when they are ill. If you feel unwell, whatever the measurement results are, it is recommended to see a doctor immediately

4. Sleep on one side can cause the temperature of the pressed ear to rise. It is better to wait a few minutes before measuring.

5. The ear canal should be kept clean, because too much earwax in the ear canal will affect the accuracy.

6.Do not try to measure when the machine is wet, which may lead to inaccurate measurement results.

7.Do not measure the body temperature within 30 minutes after exercise, bathing or eating. At these moments, the body temperature is deviated from the normal body temperature.

8. Do not use the thermometer if there is blood or drainage in the external ear canal. 9.Use the untreated ear if prescription ear drops or other ear medications have been placed in the ear canal.

10.Patients who have deformities of the face and/or ear may not be able to have a temperature taken with the ear thermometer.

11.Complete ear canal occlusion due to cerumen (ear wax) can result in lower temperature readings.

12. If there is a temperature difference between the device storage place and the measuring environment, the device shall be placed in the using environment for more than 30 minutes, otherwise the measurement results may have errors. 13. Due to the limited size of the label, the font is too small, please put it at a suitable location for viewing.

14.Do not inhale or swallow small parts. Please pay attention to product storage to prevent damage caused by pets and pests.

15. Please replace the probe cover before each use to ensure measurement accuracy and avoid cross-infection.

16.Do not leave the thermometer unattended around children. Small items such as probe cover may become choking hazards.

17.If multiple measurements are required for the same person, remove the thermometer from the ear canal after each measurement, and follow the measurement steps to re-test.

18.Limitation: The device could not instead of rectal thermometer for rectal temperature.

4. Care And Cleaning

The sensor lens is an infrared optical component, which is the most frequently damaged and stained part. To ensure the measurement accuracy, the cover must be worn after the measurement.

A.Before each use, check whether the sensor lens is dirty. If it is dirty, wipe gently with cotton swab or soft cloth stained with clean water.

Please make sure the probe is completely dry before wearing the new probe cover. B.Use a clean and soft cloth with clean water to gently wipe the LCD screen and the shell.

Warning: Do not immerse this product in medical alcohol or other liquids. C.The cleaned devices shall be stored in a dust-free and dry place, please avoid direct sunlight: do not store the device in a place with high temperature. humidity, dust or corrosive gas.

D. This device is suitable for multiple people. In order to prevent cross-infection, new probe cover needs to be replaced before each measurement. It is recommended to clean before use.

5. Measurement And Transport Storage Environment

Measurement environment:

Ambient temperature: $+10^{\circ}$ C $\sim +40^{\circ}$ C $(50^{\circ}$ F $\sim 104^{\circ}$ F) Relative humidity: 15% to 90%, no condensation Atmospheric pressure: 70kPa~106kPa Transportation and storage environment: Ambient temperature: $-20^{\circ}C \sim +55^{\circ}C(-4^{\circ}F \sim 131^{\circ}F)$ Relative humidity: 15% to 90%, no condensation Atmospheric pressure: 70kPa~106kPa

6. Installation And Usage

Installing the battery

The device is supplied with 2 AA alkaline batteries. Pull and remove the battery cover.Put the battery into the battery compartment according to the A instructions of the positive and negative poles in the battery compartment.Install the battery cover (the product will carry out systematic functional self inspection such as full display). Note: The battery attached to this machine is for trial use. Please replace them with new batteries when testing. Product usage 1. Take the infrared ear thermometer out from the protective case.

as shown in figure (1).

2. Attach probe cover.

a. Remove the cover.

. Take a new probe cover, align the center of the probe cover with the center of the probe and insert it to the end to ensure that the probe cover is in place, as shown in fiqure (2).

∧ Note: Please use the probe cover designated by our company. If you use non-designated probe cover, the measurement results may be inaccurate. Please contact the agent or our company to purchase special probe cover. /Note: Probe cover is single-use. Please use clean and undamaged new probe cover before each measurement.

A Note: Repeated use of probe cover may cause inaccurate measurement and cross-infection.





3. Press the Measure button " 🖟 " the backlight of the display is on and the display shows all segments, as shown in figure (3). 1 second after the self-check is complete, the display will show the status ready to be measured as shown in figure (4) and the indicator light is on.

4. When the subject is testing, turn the head to one side, make the ear up, and gently pull the ear back to straighten the ear ficure (5) canal.

Note: The ears of children under one year old should be pulled back.

▲ Note: Do not move while measuring.

The ears of children over one year old and adults, should be pulled back and up.Please hold it correctly when measuring. Insert the probe of infrared ear thermometer into the ear canal gently and close it to ensure that the correct temperature of eardrum is measured, as shown in figure (5);

Press and release the Measure button " 1, after about 1 second, the infrared ear thermometer will beep to prompt the end of measurement and display the measurement results.

Note: When the measurement is completed, system is busy processing, will prompt " ", When " " appears and the indicator is on, the next measurement can be taken.

5. To take the next temperature measurement, please press the probe cover replacement button, remove the used probe cover and put on clean and undamaged probe cover. If there is no need to perform the next measurement, please put the infrared ear thermometer in the protective case.

This device has the following functions

1. High temperature reminder function: when in use, if the temperature measurement is over 37.5 °C, there will be a long beep followed by three short beeps to remind the user.

2.Memory function : press the Memory button " (B)", memory value inquiry can be carried out. The infrared ear thermometer YHT100 can store 10 groups of memory values, the infrared ear thermometer YHT103 can store 6 groups of memory values. When the number of groups exceeds the specified number, the latest memory value will cover the earliest memory value.

In memory mode, press and hold the Memory button " (B) " for about 5s, when CLr is displayed on the screen, the memory value is cleared.

3. The product will power off automatically without any operation after 60s ± 10s. 4. Manual power off function: long press the Measure button " 🔒 " to turn off. 5.Battery replacement; when the screen only displays the symbol " (", prompt to replace the battery as soon as possible; when the symbol "
"
" is displayed, replace the battery immediately.

6.Battery replacement cycle: new battery enables more than 3000 times measurements

7. Temperature unit switching: in power off state, press the Measure button

" \hat{k} " and hold for about 8s ~ 12s to enter the temperature unit switching state. press the Memory button " () shortly to select " C or " F " temperature units. and then press the Measure button "



7. Replacing The Batteries

8. Troubleshooting Instructions

1.Battery Reminder:

The state of the internal electrical power source will display a different icon depending on the battery capacity. When the screen only displays the symbol " 🖵 " , prompt to replace the battery as soon as possible; when the symbol

"
 " is displayed, replace the battery immediately. Replace with 2 new AA batteries, slide open the battery cover and remove old batteries. Replace the batteries being sure to align properly as indicated inside the battery compartment. Replace with new batteries, making sure the poles are in the right

2. Remove the batteries from the product if it is not required for extended periods of time in order to avoid damage to the thermometer resulting from a leaking

X This product contains batteries and recyclable electronic waste. To protect the environment, do not dispose of it in household waste, and dispose of used batteries at an appropriate collection location in accordance with national or local regulations.

Phenomenon Possible cause Troubleshooting methods of breakdown Low power unable to use Replace with new batteries Thermometer has been turned off automatically Check whether the battery is Battery not correctly installed stalled correctly Blank screen The batteries were wearing out Replace with new batteries Please contact the dealer Screen is still blank for renair Put the thermometer at room Operating temperature is emperature of 10°C~40°C(50°F ~ lower than the set value 104°F) stand for 30 minutes before use Put the thermometer at room temperature of 10℃~40℃(50°F Operating temperature is higher than the set value ~ 104°F) stand for 30 minutes before use The use environment Put the thermometer at the use temperature has a large environment temperature for 30 change compared to the minutes before use storage temperature

8-4	Sensor error	Please contact the dealer for repair.
Х,	The temperature of the measured object is higher than the measuring range of the device	Please measure again according to the instructions
Lo	The temperature of the measured object is lower than the measuring range of the device	Please measure again according to the instructions
Wink K	No probe cover is attached or probe cover is not in place	Attach the probe cover in place

9. The Symbols Related To Safety Requirements In This Device And Their Meanings:

Symbols	Implication
*	Type BF applied part
Â	Caution
A A	Recyclable
** *	Manufacturer
EC REP	Authorized representative in the European Community/European Union
(iii)	Refer to instructions manual (Background: Blue; Symbol: White)
Ŕ	Waste from electrical and electronic equipment (WEEE)
	Safety and environmental protection use period for 10 years
	MR Unsafe (Background color: white; Circular frame and diagonal bar: red; Letters 'MR': black)
IP22	Protected against solid foreign objects of 12.5 mm
	07

	Temperature limit
<u>%</u>	Humidity limitation
\$. \$	Atmospheric pressure limitation
<u> </u>	This way up
	Fragile, handle with care
Ť	Keep dry
C E ₀₂₉₇	This device fulfils the provisions of regulation (EU) 2017/745 (Medical Device Regulation).
SN	Serial number
~~	Date of manufacture
MD	Medical device
yuwell	Manufacturer mark
LOT	Batch code
UDI	Unique device identifier

10. Product Technical Parameters

Power supply:

Measurement range: 34.0℃~42.2℃(93.2°F~108.0°F) Temperature units: °C/°F ●Minimum discernible value: 0.1℃(0.1℃) Maximum allowable error of temperature measurement: within the temperature display range of 35.0°C ~ 42.0 °C (95.0°F ~ 107.6°F), it is $\pm 0.2 \,^{\circ}{\rm C}(\pm 0.4 \,^{\circ}{\rm F})$; beyond the temperature display range of $35.0 \,^{\circ}{\rm C} \sim 42.0$ °C(95.0°F ~ 107.6°F), it is ± 0.3°C(±0.5°F) According to ISO 80601-2-56. Rated output range:34.0°C to 42.0°C (93.2°F) to107.6°F)Rated extended output range:42.1°C to 42.2°C (107.6°F to108.0°F) ●Time interval of each measurement ≤ 12s Automatic power off time: 60s ± 10s ●Measurement duration ≤2s Electrical safety belongs to internal power supply equipment category Type BF applied part is the probe. Degrees of protection provided by enclosures(IP code): IP22 Running mode: continuous running • Device type: Non-AP/APG device(cannot be used in the presence of flammable anesthetic gas mixed with air or flammable anesthetic gas mixed with oxygen or nitrous oxide) Product size: 153 mm x 59 mm x 37.5 mm Product weight: about 80 g(excluding Batteries) Service life: 5 years(excluding vulnerable and consumable parts) • This device is suitable for multiple people. Clean the thermometer after use to prevent cross-infection of patients. • This product will not cause allergic reaction and harm to human body during normal use. The clinical thermometer uses Less than Aged Older than adjusted mode. 1 year of age 1-5 years 5 years The clinical validation was conducted according to the CLINICAL 0.14°C 0.28°C 0.00°C requirements of ISO 80601-2-56. Take the result measured by LIMITS OF AGREEMENT 0.76°C 1.06°C 0.88°C mercury thermometer from oral cavity as the reference. Test three CLINICAL groups: 0 to 1 vear old, older than 1 REPEATABI 0.16°C 0.19°C 0.19°C year and younger than 5 years, $-LITY(\sigma_r)$ older than 5 years. The minimum REFERENCE BODY SITE Oral measurement number of subjects in an age group shall be at least 35. The test results Measuring site of Ear canal are shown in the table below; infrared ear thermometer

11. Temperature Sense

The normal body temperature of people is a range. Different people's normal body

temperature varies, and individual body temperature will change at different times The normal body temperature of most people is provided as follows, just for reference (The measurement of vuwell thermometer refers to earcanal) Tympanic temperature: 35.5℃~37.5℃/95.9°F~99.5°F

12. After-sales Service

1. From the date of purchase, the product will enjoy a free one-year warranty with the purchase invoice. During warranty service, if you need to be provided with circuit diagram, components, necessary materials and electrical circuit maintenance, please contact the manufacturer.

2. The infrared ear thermometer is calibrated initially when manufactured. There is no need for readjustment if it is used according to the instruction. If at anytime you question the accuracy of the temperature measurement, please contact the manufacturer.

Adjusted mode is for general public: calibration mode is for after-sale person only. 3. Free warranty service will not be provided for faults caused by the following personal reasons:

- The following conditions are not covered by the warranty:
- A. Vulnerable and consumable parts: cover .battery and probe cover:
- B. Breakdown caused by unauthorized disassembly and assembly of the device:
- 2. Breakdown caused by operation not in accordance with the instructions:
- D. Breakdown caused by lack of reasonable maintenance: E. Fault caused by device falling carelessly;
- F. Damage caused by external force:

4. Maintenance services beyond the scope of warranty will be charged according to regulations.

5.If the situations cannot be solved or unexpected problem happens, please consult the local distributor.

6.Any serious incident that has occurred in relation to the device please report to the manufacturer and the competent authority of the Member State.

13. Electromagnetic Compatibility Information

A Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result. This equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures. such as relocating or re-orienting the equipment.

A When the instrument is in use never put it near other instruments or stack it on other instruments. If you have to put it near other instruments or stack it on other instruments, please inspect and verify if the instrument could run normally. There is the potential risk of radio frequency interference between the device and other devices. If there is, please find out the problems and take the following measures:

(1) Turn off the device, and turn on again. (2) Change the direction of the device. (3) Keep the product away from the interfe The EM environment for this product is the professional healthcare facility environmen The essential performance of this product i maximum allowable error of temperature measurement.

Table 1-Compliance information for Emission

Emission test	
RF emissions CISPR 11	
RF emissions CISPR 11	

Table 2–Compliance inf	ormation for Immur
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ELECTROSTATIC DISCHARGE IEC 61000-4-2

RATED power frequency magnetic fields IEC 61000-4-8

Radiated RF EM fields IEC 61000-4-3

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Revision date: Feb. 2024



erential devices.
e home healthcare environment ar
nt.
is measurement range and
magguramant

test	

Compliance
Group 1
Class B
y test
Compliance level
±8 kV contact ±15 kV air
30A/m 50Hz or 60Hz
10 V/m 80 MHz to 2.7 GHz 80% AM at 1kHz

Table 3-Test specifications for ENCLOSURE PORT IMMUNITY to RE wireless communications equipment

Test frequency (MHz)	Band ^{a)} (MHz)	Service ^{a)}	Modulation ^{b)}
385	380-390	TETRA 400	Pulse modulation ^{b)} 18 Hz
450	430-470	GMRS 460, FRS 460	FM ^{©)} ±5 kHz deviation 1 kHz sine
710	704-787		Pulse
745		LTE Band 13,17	modulation ^{b)} 217 Hz
780			
810		GSM 800/900, TETRA 800,	Pulse
870	800-960	iDEN 820, CDMA 850,	modulation ^{b)} 18 Hz
930		LTE Band 5	TOTIL
1720	1700-1990	GSM 1800; CMDA 1900;	
1845		GSM 1900; DECT; LTE Band 1,3,	Pulse modulation ^{b)} 217 Hz
1970		4,25; UMTS	
12			

2450	2400-2570	Bluetooth, WLAN, 802.11 b/g/n RFID 2450, LTE Band 7	Pulse modulation ^{b)} 217 Hz
5240			
5500	5100-5800	WLAN 802.11 a/n	Pulse modulation ^{b)} 217 Hz
5785			
Test frequency (MHz)	Maximum power (W)	Distance (m)	IMMUNITY TEST LEVEL (V/m)
385	1,8	0,3	27
450	2	0,3	28
710			
745	0,2	0,3	9
780			
810			
870	2	0,3	28
930			

1720			
1845	2	0,3	28
1970			
2450	2	0,3	28
5240			
5500	0,2	0,3	9
5785			
NOTE If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIP-MENT or ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000–4–3. a) For some services, only the uplink frequencies are included. b) The carrier shall be modulated using a 50% duty cycle square wave signal. c) As an alternative to FM modulation, 50% pulse modulation at 18 Hz may be used because while it does not represent actual modulation, lation, it would be worst case.			
14. Warranty C	ard		

Model:

YHT100/YHT103





YHT100/YHT103 Infrared ear thermometer

User Manual And Technical Instruction

Please read the user manual carefully and follow the instructions before use. For date of manufacture, please refer to the packing. The picture is for reference only, please refer to the actual product.