

iHealth® PT3

Infrared No-Touch Forehead Thermometer



User's Manual

Version 4.1

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Intended Use

The thermometer is intended for the intermittent measurement of body temperature from the central forehead skin surface on people of all ages. It can be used by consumers in the household environment and by healthcare providers. The device is not FDA cleared.

Product introduction

Thank you for choosing our product. This product is a high-tech infra-red (IR) thermometer designed to take human body temperature by measuring the energy of IR emitted from the forehead. The product helps you to assess you and your family members' health conditions easily and quickly. Product Name: Infrared No-Touch Forehead Thermometer Product Model: PT3

Safety Precautions

⚠ Warning

- Use of this thermometer is not intended as a substitute for consultation with your physician. Please consult your doctor if you have any doubt about the temperature reading.
- For consumer use only, not for professional use.
- Keep the thermometer out of reach of children. For accidental swallowing of the battery or other components, please contact emergency services immediately.
- Batteries must not be thrown into an open fire or short circuited.

⚠ Caution

(1) Measurements

1. Thermometer readings should be regarded as a reference. Do not attempt self-diagnostics or self-treatment using the temperature readings. Please seek professional medical advice when necessary.
2. There is no absolute standard for human body temperature. Knowing your own normal body temperature range is important to accurately determine if you have a fever.
3. Make sure that the forehead of the subject is free from sweat, cosmetics, dirt, or grease before measuring.
4. Patients should not drink, eat, or be physically active before/while taking a reading. Wait 30 minutes before taking a measurement. Temperature readings taken when a body is in a state of stable equilibrium is more accurate and useful as a reference.
5. Do not take temperature measurement over scar tissue, open sores or abrasions. Clean and sanitize the product properly to prevent cross contamination.
6. Do not measure body temperature from scar tissues on the forehead as such tissues will affect temperature conduction of the body.
7. If there is a temperature difference between the thermometer storage area and the new ambient environment around the subject, please let the thermometer sit within the new environment for 30 minutes before taking the measurement.
8. Do not measure body temperature immediately after

consuming a drug that raises body temperature. Temperature readings taken at this time will not be accurate.

9. It is normal for readings taken from continuous measurements to fluctuate within a small range. During continuous measurements, the subject's body temperature may be transmitted to the thermometer, affecting measurement accuracy. We recommend taking only up to 3 continuous readings within a short period.
10. Do not directly face the sun or an air outlet of an air conditioning or radiator device during the measurement as this will cause changes to the forehead temperature. Measurements should be taken in a stable environment where possible.
11. Do not measure body temperature in an environment with strong EM interference (examples include places close to a working microwave, induction cooker, or cellphone in-use) as EM interference may cause errors in the reading or even device failure.
12. This product should be considered a personal device.
13. To clean a dirty thermometer probe, gently swipe the probe using a cotton swab dipped in 75% alcohol. Let the cleaned thermometer sit for at least 15 minutes before taking more measurements.
14. This infrared thermometer meets requirements of ISO 80601-2-56 standard. It displays subject's temperature over a range of 89.6°F-109.4°F(32°C-42.9°C). Full responsibility for the conformance of this product to the standard is assumed by manufacturer.

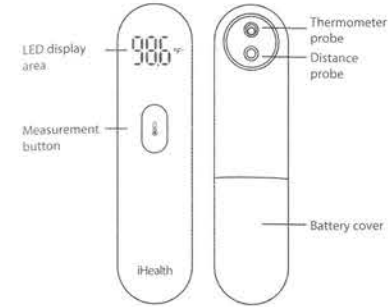
(2) About the product

1. This product is a precision device. Return the product to its original packaging for proper storage after use. To ensure accurate measurements, avoid the device or probe contacting any liquid or droplets. Avoid tiny particles (such as dust or powder) falling into the probe.
2. Avoid dropping or subjecting the product to external forces. Do not disassemble or re-assemble the product on your own.
3. Do not directly touch the probe with your fingers or blow on it. Measurements taken using a damaged or dirty IR probe may be inaccurate.
4. Keep the product at a place inaccessible to children to prevent children from swallowing the batteries or small parts.
5. Do not throw the thermometer or batteries into fire to prevent explosions.
6. Remove the batteries from the thermometer if the device will not be used for more than one month.
7. If you are allergic to plastic/rubber, please don't use this device.
8. The materials (ABS, TPU, metal) of expect contact with patient had passed the ISO 10993-5 and ISO 10993-10 standards test, no toxicity, allergy and irritation reaction. Based on the current science and technology, other potential allergic reactions are unknown.

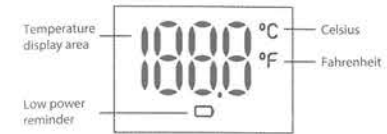
Overall Description

The thermometer is mainly comprised of a plastic casing, IR

temperature sensor, MCU, vibration motor, LED display screen and batteries.



LED screen instructions



Device dimensions: 5.39 in x 1.34 in x 1.54 in
Screen dimensions: 1.01 in x 0.75 in
Product weight: 90 g

Product performance

1. Measurement position: Centre of the forehead surface
2. Measurement distance: ≤ 1.18 in(3 cm)
3. Power source: 2 x 1.5V \Rightarrow SIZE AAA batteries
4. Measurement range: 89.6°F-109.4°F(32°C-42.9°C)
5. Measurement precision: $\pm 0.4^\circ\text{F}/0.2^\circ\text{C}$ within 95°F-107.6°F (35°C-42°C), and $\pm 0.6^\circ\text{F}/0.3^\circ\text{C}$ for other temperature ranges.
6. Resolution: 0.1°F/0.1°C
7. Clinical reproducibility: Within $\pm 0.6^\circ\text{F}/0.3^\circ\text{C}$.
8. Operating conditions:
 - Temperature: 59°F-104°F(15°C-40°C)
 - Humidity: 15-95%RH, non-condensing
 - Atmospheric Pressure: 70-106kPa
9. Operation mode:
 - Adjusted mode: forehead
10. Expected service life: 2 years
11. Reference Body Site: Oral
12. Software version: V1.0

Expected use and scope of applications

This product mainly uses IR temperature sensing of the forehead to measure human body temperature. It can be used for babies, children, and adults. Babies and children should not operate the thermometer on their own. Body temperature readings for babies and children should be taken by an adult. Reminder: Temperature readings may differ according to skin tone and measurement distance.

Contraindications

It is not recommended for people whose measuring part has local lesions, such as inflammation, trauma, postoperative, etc.

Instruction For Use

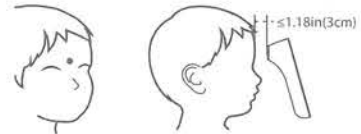
The patient is an intended operator. The patient can measure, transmit data and change battery.

(1) Installing the product

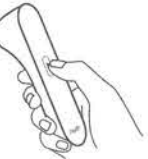
Insert the 2 battery cells from the packaging box into the battery compartment at the back of the device. The product will start automatic inspection and a standby mode (if the device indicates low battery power, then replace the batteries to ensure ample power supply).

(2) Measurement process

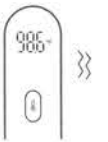
1. Aim the thermometer probe at the center of the forehead and keep the probe 1.18in(3cm) away from the forehead (the optimal distance is about the width of an adult's index finger). Do not touch the forehead with the probe.



2. Gently press the measurement button [0] to start the measurement.



3. The device will vibrate once a reading is obtained. The reading will be displayed on the screen. If the measurement is failed, the device will not vibrate the screen but display [---] instead.



Possible reasons for measurement errors include:

- Measurement distance is greater than 1.18in (3cm);
- Environment temperature does not meet measurement requirements or there is an excessively large temperature difference;
- Target temperature exceeds measurement range.



(3) Power off

If no more measuring is required, simply let the device sit idle for 8 seconds to power off automatically.

(4) Unit switching

- When the device is powered OFF, press and hold the measurement button for 8 seconds to enter unit switching mode. Under this mode, both °C and °F should flash at the same time.
- Under this mode, press the measurement button to switch to Fahrenheit or Celsius. The corresponding symbol of the selected unit after switching will flash.
- After selecting the unit, press and hold the measurement button for 8 seconds to leave the unit switching mode.

Reminder: If you do not press and hold the measurement button for 8 seconds to confirm the unit selected before the screen switches off, the system will consider the switch as a failure and retain the original unit for temperature measurements.

(5) Installing and replacing batteries

When switched ON for use, the thermometer will automatically detect remaining battery capacity. If battery capacity is low but adequate for measurements, the low power symbol (□) will be displayed with the measurement results. However, if the battery capacity is too low for measurements, the screen will display a single, flashing (□) icon and automatically switch OFF after 8 seconds. To continue using the device, old batteries must be replaced.

(6) Replacing batteries

- Press down and hold the battery cover with the finger and apply some force to slide the cover backwards to open the battery compartment.
- Remove the old batteries and install the new batteries.
- Refer to the battery polarity symbols to orient the batteries properly during installation. Make sure that the new batteries are tightly inserted into the battery compartment and make sure that the polarity is not reversed during installation.
- Return the battery cover to close the battery compartment.
 - Comply with relevant national laws and regulations when disposing of the used batteries.
 - Do not dispose of batteries directly into the trash bag.
 - Remove the batteries if the device will not be used more than one month.

- When using, shall not touch battery and the patient simultaneously.
- Do not throw batteries into fire.
- The typical service life of the new and unused batteries is 300 measurements for the operation time is 60s.

Product errors and troubleshooting

Problem	Item to detect	Solution
	Battery depleted	Replace old batteries with new ones
	Batteries have been installed with the wrong polarity	Take out the batteries and re-install them correctly.
	Batteries are not installed properly	
	Unable to carry out measurement as current battery capacity is too low.	Replace the batteries
	Measurement distance too long	Follow the instruction manual and repeat the measurements
	Target temperature is beyond range of measurements 89.6°F-109.4°F(32°C-42.9°C)	
	Environment temperature either exceeds the design range 59°F-104°F(15°C-40°C) or is unstable	
	Current state: All symbols are flashing on the screen. The product is not usable.	Please contact customer services.
	Current battery capacity is too low.	Replace the battery as soon as possible.

Body temperature

- Body temperature varies from person to person and fluctuates during the course of the day. For this reason, it is suggested to know one's normal, healthy forehead temperature to correctly determine the temperature.
- Body temperature runs approximately from 95.9°F to 100°F (35.5°C-37.8°C). To determine if one has a fever, compare the temperature detected with the person's normal temperature. A rise over the reference body temperature of 2°F/1°C or more is generally an indication of fever.
- Different measurement sites(rectal, axillary, oral, frontal, auricular) will give different readings. Therefore it is wrong to compare the measurement taken from different sites.

The following are typical temperatures for adults, based on different measurement sites:

Rectal	97.9°F-99.1°F	36.6°C to 38°C
Axillary	94.5°F-99.1°F	34.7°C to 37.3°C
Oral	95.9°F-99.5°F	35.5°C to 37.5°C
Auricular	96.4°F-100.4°F	35.8°C to 38°C

Care and Cleaning

- After every use, especially may handle to different user, please thoroughly clean the display screen and external surface of the thermometer. Use a piece of soft, dry cloth, with 75% medical alcohol, to clean the surface. And wait a 10-15 minutes after every clean before next use.
- The probe (comprising a temperature sensor and a distance sensor) is the most intricate part of the thermometer, and should be kept clean and intact to acquire accurate readings. Use the following method to clean the probe: Gently swab the surface of the probe using a cotton bud soaked in > 75% medical alcohol.
- If the probe (sensor) is broken, please contact customer services.
- The product is not waterproof. Do not clean the device with detergents. Do not soak the thermometer in water or other liquids.

Maintenance

- This company has not authorized any agency or individual to carry out product repairs or maintenance. Do not attempt to disassemble or modify the thermometer if you suspect functional issues with the device.
- The IR thermometer is an extremely precise instrument. Any improper maintenance, disassembly, or modification may lead to inaccuracies of the product measurements.
- If you suspect any product issues during the warranty period, please contact customer services for subsequent handling.

Disposal

- Dispose of the battery in accordance with the regulation applicable at the place of operation. Dispose of at public collection point in the EU countries – 2002/96/EC WEEE Directive. If you have any queries, please refer to the local authorities responsible for waste disposal.

Notes

- Please act according to local laws for disposal of used batteries.
- Take out the battery if you are not going to use the unit for a long time.

- To protect the environment, dispose of empty batteries at appropriate collection sites according to national or local regulations. Dispose of at public collection point in the EU countries – 2006/66/EC Directive.

Operating, shipping, and storage conditions

(1) Operating conditions

Range of operating environments
 Temperature: 59°F-104°F(15°C- 40°C)
 Humidity: 15-95%RH, non-condensing
 Atmospheric Pressure: 70kPa-106kPa

(2) Transportation / storage conditions

Temperature: -4°F-131°F(-20°C- 55°C)
 Humidity: 15-95%RH, non-condensing
 Atmospheric Pressure: 70kPa-106kPa

Accessories

Use only accessories provided by the original manufacturer, and check for any missing accessories.

1 IR Thermometer	2 AAA batteries
1 Instruction manual	1 Quick user guide

Standard icons

- Attention: Follow instructions for use! (The sign background color: blue. The sign graphical symbol: white.)
- The batteries and electronic instruments must be disposed of in accordance with the locally applicable regulation, not with domestic waste.
- Manufacturer information
- Symbol for "WARNING"
- Symbol for "Type BF Applied Parts"
- Serial number
- Authorized representative in the European Community

IP22

IP code of the device: this device's grade of against ingress of solid foreign objects -- ≥ 12.5mm diameter (and the against access to hazardous parts with finger); the grade of waterproof is dripping (15° tilted).

Calibration

The thermometer is initially calibrated at the time of manufacture. If this thermometer is used according to the use instruction, periodic re-adjustment is not required. If any time your question the accuracy of measurement, please contact distributor or manufacturer, the contact information is on the last page.

Storage



- Do not put the thermometer under direct sunlight, high temperature, or moist environments. Do not allow it to come into contact with fire or harsh vibrations.
- Take out the battery if the device is not used for a long period of time.

Executive Standard

ANSI/AAMI E560601-1:2005/(R)2012, (IEC 60601-1:2005, MOD) ANSI/AAMI/IEC 60601-1-2: 2014 ANSI/AAMI HA 60601-1-11: 2015 (IEC 60601-1-11: 2015, MOD) ASTM E 1965-98: 2016
GB 9706.1-2007 YY 0505-2012 Reference GB/T 21417.1-2008

Electromagnetic Compatibility (EMC) Tables

Table 1 - Emission

Phenomenon	Compliance	Electromagnetic environment
Conducted and radiated RF emissions	CISPR 11 Group 1, Class B	The device is intended to be used in home healthcare environment.
Harmonic distortion	IEC 61000-3-2 NA	The device is powered by battery.
Voltage fluctuations and flicker	IEC 61000-3-3 NA	The device is powered by battery.

Table 2 - Enclosure Port

Phenomenon	Basic EMC standard	Immunity test levels
		Home Healthcare Environment
Electrostatic Discharge	IEC 61000-4-2	±8 kV contact ±2kV, ±4kV, ±8kV, ±15kV air
Radiated RF EM field	IEC 61000-4-3	10V/m 80MHz-2.7GHz 80% AM at 1kHz
Proximity fields from RF wireless communications equipment	IEC 61000-4-3	Refer to table 3
Rated power frequency magnetic fields	IEC 61000-4-8	30A/m 50Hz or 60Hz

Table 3 - Proximity fields from RF wireless communications equipment

Test frequency (MHz)	Band (MHz)	Immunity test levels
		Professional healthcare facility environment
385	380-390	Pulse modulation 18Hz, 27V/m
450	430-470	FM, ±5kHz deviation, 1kHz sine, 28V/m
710	704-787	Pulse modulation 217Hz, 9V/m
745		
780		
810	800-960	Pulse modulation 18Hz, 28V/m
870		
930		
1720	1700-1990	Pulse modulation 217Hz, 28V/m
1845		
1970		
2450	2400-2570	Pulse modulation 217Hz, 28V/m
5240	5100-5800	Pulse modulation 217Hz, 9V/m
5500		
5785		

WARRANTY

Please contact your dealer or the device center in case of a claim under the warranty. If you have to send in the unit, enclose a copy of your receipt with clear statement of defect description.

The warranty terms as below:

- The warranty period for device is one year from date of delivery. In case of a warranty claim, the date of delivery has to be proven by means of the sales receipt or invoice.
- Repairs under warranty do not extend the warranty period.
- The following cases are excluded under the warranty

- All damage which has arisen due to improper treatment, e.g. nonobservance of the user instruction.
- All damage which is due to repairs or tampering by the customer or unauthorized third parties.
- Damage which has arisen during transport from the manufacturer to the consumer or during transport to the service centre.
- Accessories which are subject to normal wear and tear.

- Liability for direct or indirect consequential losses caused by the unit is excluded even if the damage to the unit is accepted as a warranty claim.

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