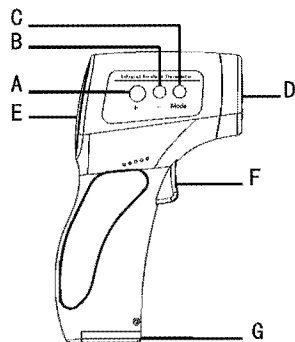


Infrared Forehead Thermometer

User Manual



A: Page Up; B: Page Down; C: Mode; D: Detection port;
E: Display; F: ON/Scan; G: Battery Holder.

Please read the manual carefully before using this product.

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1. Instruction

This product measures human body temperature by collecting infrared thermal radiation from human forehead. User only needs to point the probe at the forehead and press ON/SCAN Button to measure the body temperature. It widely used in schools, customs, hospitals, homes.

This product is an internal power supply device, type B application part, and the liquid-proof level is ordinary equipment. It cannot be used in the presence of flammable anesthetic gas and air, oxygen or nitrous oxide.

Scope of application: display the body temperature of the measured object by measuring the heat radiation of the forehead

The meanings of the legend and warning mark as below:

	Warning. Refer to attached file		Type B applied part
	Non-ionizing radiation signal		

2. Basic Principle

Any object will release infrared radiation energy, and its surface temperature directly determines the size and wavelength of the radiation energy. Based on this principle, this product uses a high-precision infrared sensor that is specifically used to detect the human body emitting infrared radiation with a wavelength of 5-14um, and accurately measures the human body temperature through accurate calculations and various compensation corrections.

3. Feature

- A. Using high-precision infrared sensor;
- B. Strong adaptability to ambient temperature;

- C. Automatically save the last measured value;
- D. Large LCD screen with high brightness backlight;
- E. Two temperature units of Celsius and Fahrenheit can be selected;
- F. Automatic shutdown to save power and energy;
- G. Clean and hygienic: non-contact measuring forehead temperature, measuring distance 3-5cm, not touching human skin, preventing cross infection.
- H. One-click measurement, one-click check memory;
- I. Multiple sets of memory: It can store 30 sets of measurement data for analysis and comparison.
- J. Prompt / alarm function
- a) Power supply voltage: When the actual power supply voltage of the product is less than 20% of the 3V requirement, a low battery indicator should be displayed and a short beep will be issued as a warning;
- b) Display range: When the display temperature is lower than 32 ° C, "LO" should be displayed, and six short beeps as a warning. When the display temperature is higher than 42 ° C, "HI" should be displayed, and will sound six short beeps warning.
- c) The product will have a short beep when the battery is installed and when it is turned on.
- d) When the product finishes measuring, it will sound Beep meaning the measurement is complete. If the body temperature exceeds the temperature alarm point, will sounds three short beeps for alert.
- e) When it's object mode and ambient temperature is lower than 0 degrees or when it's human mode and ambient temperature is lower than 10 degrees, the display will show "Lo", six short beeps.
- f) When the ambient temperature is higher than 40 degrees, the display shows HI and sounds six short beeps.

4. Technical Specifications

Infrared Forehead Thermometer		
Measurement Method	Non-contact	
Measuring distance	3cm-5cm	
Measuring range	Body temperature mode	35.0°C - 42.0°C
	Object surface mode	25.0°C - 45.0°C
Maximum allowable error	Body temperature mode	34.0°C - 34.9°C ±0.3°C 35.0°C - 42.0°C ±0.2°C
	Object surface mode	25.0°C - 34.9°C ±0.1°C 35.0°C - 42.0°C ±0.3°C
Display resolution	0.2°C	
Operating environment	Temperature: 16°C-35°C Humidity: ≤ 95%	
Transportation storage environment	Temperature: -20°C - 65°C, Humidity: ≤ 95%	
Power	d.c.3V (2×AAA)	
Battery reminder	Low battery alert	
Backlight	High brightness backlight	
Display unit	Celsius (°C) / Fahrenheit (°F)	
Automatic shut-down	Less than 20 seconds	
Software release version	V1	

5. Parts

This product is mainly composed of display screen, infrared detection head, PCBA board and housing.

List of accessories: 1 instruction manual (including warranty card), 2 AAA batteries.

6. Replacing Battery

- 1) Push the battery door downwards and backwards firmly, insert 2 AAA batteries, and cover the battery cover. When installing, please carefully check the positive and negative signs on the battery. Pay attention that the positive and negative electrodes of the battery cannot be reversed.
- 2) If not used for a long time (more than 3 months), please remove the battery.

7. Setting Up Your Non-contact Infrared Thermometer

In the power-on state, click the mode button to switch modes. ①. Body Temperature (Celsius) ②. Surface Temperature (Celsius) ③. Body Temperature (Fahrenheit) ④. Surface Temperature (Fahrenheit)

8. Taking a Body Temperature Measurement

This product provides you with a method of measuring the body temperature of the frontal temperature, but it cannot be used as a substitute for a doctor's diagnosis and treatment. In addition, the individual's body temperature is different. Please use the memory function to understand your daily temperature and use it as a reference for whether the temperature rises.

- 1) Point the thermometer at the center of the forehead-above the center of the eyebrow and keep it vertical. The measuring part must not be covered by hair.
- 2) Press the key to start

Note 1: The body temperature mode is the preset mode.

Note 2: The thermometer will be performed automatically after power on

- 3) About 2 seconds, the thermometer screen displays "body temperature" and displays the measurement result.
- 4) Automatic shutdown: Automatic shutdown after 15 seconds without operation.

Before measuring, please make sure that the subject has not bathed or exercised within 30 minutes, and has been kept in a stable environment for at least 5 minutes. Three measurements are recommended. If the three measurements are different, choose the highest temperature value.

9. Taking a Object Surface Temperature Measurement

This product is a function for you to measure the surface temperature of an object.

- 1) When the instrument is in the measurement-on state, press the Mode key. The LCD displays the "Surface Temperature" character, indicating that it is set to the object temperature measurement mode.
- 2) Automatic shutdown: Automatic shutdown after no operation for about 15 seconds. When the thermometer is taken out from a place with a large difference in the ambient temperature to be measured, the thermometer should be placed in a new environment for at least 30 minutes before measuring.

10. Viewing Data Memory

In the on or off state, press the + - key to enter the memory view.

- 1) The larger the memory number, the earlier the measured value, and the smaller the value, the closer the measured value.
- 2) If there is no memory value, "000" is displayed.

11. Problems & Troubleshooting

Please keep the inner cavity of the sensor and probe clean, otherwise it will affect the measurement accuracy.

1. Cleaning method:
 - 1) Surface cleaning: Wipe the dirt with a clean soft cloth or cotton swab moistened with a little medical alcohol or water.
 - 2) Clean the inner cavity of the sensor and probe: Wipe the inner cavity of the probe or the top of the sensor gently with a clean soft cloth or cotton swab with a little medical alcohol. Do not use until the alcohol has completely evaporated.
2. Note:
 - 1) Before use, please read this instruction manual carefully and make sure the battery is installed.
 - 2) It is forbidden to immerse the thermometer in any liquid.

- 3) The thermometer can store up to 30 groups of recent measured values, and the values of the remaining 30 groups are automatically overwritten in chronological order.

11. Problems & Troubleshooting

Display/ Problems	Express meaning	Possible Reasons
Display: HI	Environmental temperature too high	1. Body temperature mode, display temperature higher than 42 ° C. 2. Object temperature mode, display temperature is higher than 45 ° C
Display: Lo	Environmental temperature too low	1. Body temperature mode, display temperature is below 34 ° C 2. Object temperature mode, display temperature is below 25 ° C
Display: Lo Display:	Battery level display	Low battery, please replace with new battery immediately

Please keep the inner cavity of the sensor and probe clean, otherwise it will affect the measurement accuracy.

1. Cleaning method:
 - 1) Surface cleaning: Wipe the dirt with a clean soft cloth or cotton swab moistened with a little medical alcohol or water.
 - 2) Clean the inner cavity of the sensor and probe: Wipe the inner cavity of the probe or the top of the sensor gently with a clean soft cloth or cotton swab with a little medical alcohol. Do not use until the alcohol has completely evaporated.
2. Note:
 - 1) Before use, please read this instruction manual carefully and make sure the battery is installed.
 - 2) It is forbidden to immerse the thermometer in any liquid.

and it is forbidden to be placed in an excessively high or low temperature environment for a long time.

- 3) It is forbidden to collide, drop or mix with sharp objects, and it is forbidden to disassemble by yourself.
 - 4) The thermometer cannot be used in the sun or water.
 - 5) Do not use in a strong electromagnetic interference environment.
 - 6) Keep the thermometer out of the reach of children.
 - 7) Do not open the battery door during the test to avoid touching the live parts and the patient at the same time.
 - 8) Do not touch the lens inside the gun head with your fingers.
 - 9) Sweat stains on the forehead, coverings such as hair, hats, or scarves may cause the measurement temperature to be too low, so please use it correctly to ensure the correct measurement results
 - 10) It is recommended to practice more to become familiar with the measurement method, and try not to change the product factory settings. Measurement results are not a substitute for physician diagnosis.
 - 11) No special maintenance is required during use, please contact the seller or manufacturer if any trouble occurs.
 - 12) Please dispose of waste and residues at the end of the service life of the product according to local laws and regulations.
 - 13) Please replace the battery in time when battery icon is visible, screen turn red and have Beep sound.
13. EMC Declaration
This product complies with the EMC (Electromagnetic Compatibility) standard YY0505-2012 for the safe use of medical electrical equipment. The EMC standard is a standard developed for the safe use of medical electrical

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equipment. Electromagnetic interference from other devices (mobile phones, etc.) is controlled within a certain range. YY0505-2012 (item 5.5.1.1) provides detailed information about the EMC environment required to provide users with safe equipment operation. The following is a description of EMC-related technical descriptions.

When this product works in the electromagnetic environment locked in this EMC technical data, the basic performance described in its scope of application will not be affected.

Definition of EMC (Electromagnetic Compatibility): EMC (Electromagnetic Compatibility) refers to the ability to meet the following two requirements.

Capacitive electromagnetic interference noise will not be emitted to other nearby electronic equipment. (radiation) The device can function normally in an electromagnetic environment in which other electronic devices emit noise or the like. (Immunity)

EMC (Electromagnetic Compatibility) related technical descriptions:

Note: The basic performance is: "During the EMC test, the thermometer display normally displays, continuous temperature measurement, and trouble-free operation."

Caution: Portable and mobile RF communication equipment may affect the normal operation of this instrument.

Warning: It is the responsibility of the user to ensure the electromagnetic environment of the equipment, so that the instrument can work normally.

Warning: Do not use this device near strong radiation sources, otherwise it may interfere with the normal operation of this instrument.

Caution: Except for transducers, accessories, and cables

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sold by the manufacturer of this instrument or system as spare parts for internal components, the use of unspecified transducers, accessories, and cables may result in increased emissions or immunity of the equipment or system. The reduction.

Warning: This instrument 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 its used configuration.

It is recommended to use d.c. 3V (2 AAA batteries) provided by the manufacturer

Table 1—Guidelines and manufacturer's declaration— Electromagnetic radiation —

Guidance and manufacturer's declaration—electromagnetic emissions			
This infrared thermometer is intended for use in the electromagnetic environment specified below, and the purchaser or user should guarantee its use in this electromagnetic environment:			
Launch test	Compliance	Electromagnetic Environment-Guide	
RF emission GB 4824	Team 1	This infrared thermometer uses radio frequency energy only for its internal functions. As a result, its RF emissions are low and the possibility of interference with nearby electronic equipment is extremely low.	
RF emission GB 4824	Class B		
Harmonic radiation GB17625.1	Not applicable	This product is suitable for use in all facilities.	
Voltage fluctuation / flicker emission GB17625.2	Not applicable		

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Table 2—Guidelines and manufacturer's declaration—Electromagnetic immunity—

Guidance and manufacturer's declaration—electromagnetic immunity			
This infrared thermometer is intended for use in the electromagnetic environment specified below, and the purchaser or user should guarantee its use in this electromagnetic environment:			
Immunity test	IEC 60800 test level	Coincidence level	Electromagnetic Environment-Guide
Electrostatic discharge GB / 11726.2	± 6kV contact discharge ± 8kV air discharge	± 4kV contact discharge ± 8kV air discharge	The floor is recommended to be wood, concrete or tile floor. When the floor is coated with synthetic material, the relative humidity is recommended to be at least 30%.
Electrical fast transient pulse group GB / 11726.4	± 2kV power cord ± 1kV input / output line	Not applicable	Not applicable
Surge GB / 11726.5	± 1kV wire-to-wire ± 2kV line to ground	Not applicable	Not applicable
Voltage sags on power input lines, short-term interruptions and voltage changes GB / 11726.11	<5% U _n for 0.5 weeks (on U _n > 95% sag) 40% U _n for 5 weeks (on U _n , 60% sag) 70% U _n for 25 weeks (on U _n , 80% slump) <5% U _n for 5 seconds (on U _n > 95% sag)	Not applicable	Not applicable
Power frequency magnetic field [50 / 60]Hz GB / 11726.8	3A/m	3A/m, 50Hz	If the instrument does not work properly, it is necessary to keep the instrument away from the power frequency magnetic field source.

Note: U_n is the AC network before the test voltage is applied.

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Table 3—Guidelines and manufacturer declarations—Electromagnetic immunity—

Guidance and manufacturer's declaration—electromagnetic immunity			
This infrared thermometer is intended for use in the electromagnetic environment specified below, and the purchaser or user should guarantee its use in this electromagnetic environment:			
Immunity test	IEC 60800 test level	Coincidence level	Electromagnetic Environment-Guide
RF radiation GB / 11726.6	3V (effective value) 1500Hz-800MHz	Not applicable	Portable and mobile RF communication equipment should not be used closer to any part of this product, including cables, than the recommended separation distance. This distance is calculated by the manufacturer's frequency response compass. Recommended separation distance: $d=1.2\sqrt{P}$ $d=1.2\sqrt{P}$ 800MHz-800MHz $d=2.3\sqrt{P}$ 800MHz-2.5GHz
RF radiation GB / 11726.7	30V 800MHz-5GHz	3V/m	Among them, P is the maximum rated output power of the transmitter specified by the transmitter manufacturer in watts (W), or the recommended separation distance in meters (m). The electric field strength of the field RF transmitter is determined by the on-site survey (s) of the electromagnetic field, and should be lower than the compliance level in each frequency band range. Interference may occur near the equipment marked with the following symbol: 

Note 1: At the frequency of 800MHz and 800MHz, the formula of the higher frequency band is used.
NOTE 2: These guidelines may not be suitable for all situations. Electromagnetic propagation is affected by the registration and reflection of buildings, objects, and the human body.
d) Stationary transmitters, such as base stations for wireless cellular / Wi-Fi networks and ground mobile radio, power lines, FM and AM radio broadcast, and television broadcast, the theoretical field strength cannot be accurately predicted in theory to assess the electromagnetic environment of field RF transmitters; surveys of electromagnetic fields should be considered. If the measured field strength of the electronic thermometer is higher than the applicable RF compliance level above, the electronic thermometer should be checked to verify that it can operate normally if abnormal performance is observed; supplementary measures may be necessary, such as repositioning or shielding the electronic thermometer.
d) In the frequency range of 1500KHz-800MHz, the magnetic field strength should be lower than 3V / m

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Table 4—Recommended separation distances between portable and mobile RF communication equipment and this product

Recommended separation distance between portable and mobile RF communication equipment and this infrared thermometer
This infrared thermometer is expected to be used in an electromagnetic environment where radio frequency radiation disturbance is controlled. Depending on the maximum rated output power of the communication equipment, the purchaser or user can maintain the portable and mobile RF communication equipment (transmitter) and the infrared thermometer as recommended below. Minimum distance between them to place electromagnetic interference.

Transmitter's rated maximum output power [W]	150KHz~800MHz			800MHz~800MHz			800MHz~2.5GHz		
	$d=1.2\sqrt{P}$			$d=1.2\sqrt{P}$			$d=1.2\sqrt{P}$		
0.01	Not applicable			0.12			0.23		
0.1	Not applicable			0.38			0.73		
1	Not applicable			1.2			2.3		
10	Not applicable			3.8			7.3		
100	Not applicable			12			23		

For the maximum rated output power of transmitters not listed in the table above, the recommended separation distance d is in meters (m), which can be determined by the formula in the corresponding transmitter frequency column, where P is the emission provided by the transmitter manufacturer Maximum rated output power of the unit, in watts (W).

Note 1: At the frequency of 80MHz and 800MHz, the formula of higher frequency range is adopted.

Note 2: These guidelines may not be suitable for all situations. Electromagnetic propagation is affected by absorption and reflection from buildings, objects, and the human body.

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Warranty Card

Cardholder	Contact Number
Address	
Model	Date of manufacture
Quality warranty:	
1) The life of this product is 5 years from the date of purchase. With a shopping invoice, you can enjoy a one-year free warranty and lifetime maintenance.	
2) The battery and packaging are not covered by the warranty.	
Time	Cardholder

Note:

- 1: If your contact information has changed, please notify us in time!
- 2: The replaced parts belong to our company;
- 3: Consulting Tel:
- 4: Dear customer, please fill in the (After-sales Service Card) truthfully and send it back in order to get more and better after-sales service.

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Quality commitment and after-sales service

1. The period of use of this product is five years from the date of purchase. With a shopping invoice, you can enjoy a one-year free warranty and lifetime maintenance.
2. The battery and packaging are not covered by the warranty.
3. For the following damage caused by the user, please forgive us for not being able to provide free warranty service:
 - a) Failure caused by unauthorized disassembly and modification of the product;
 - b) Failure caused by accidental drop during use or handling;
 - c) failure caused by failure to follow the correct instructions in the instructions;
 - d) failure caused by lack of reasonable maintenance;
 - e) Repair services outside the warranty will be charged according to the corresponding regulations;
 - f) When requesting a free warranty service, please take this product to the company's distribution points for repair.

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