



Date of Manufacture: Details see package
 Service Life: 3 Years
 Service Hotline: 0830-2286718

Table of Contents		Product Warranty	
1. Range of Application	2	From the date of purchase, the warranty card with seal shall enjoy 1-year free warranty. We do not provide free warranty service for the following faults caused by users:	
2. Product Composition	2	1. Faults caused by unauthorized disassembly and reflowing of the product.	
3. Precautions, Taboos and Warnings	2	2. Faults caused by careless drop during use and transport.	
4. Technical Parameters	3	3. Faults due to lack of reasonable maintenance	
5. Advice before Use	4	4. Faults caused by improper operation according to the correct instructions in the operation manual.	
6. Quick Use	5	5. Faults caused by fall or repair of unauthorized repair shop, etc.	
7. Battery Replacement	5	6. Maintenance services beyond the scope of warranty will be charged according to related regulations.	
8. Operating Instructions	6	7. Please call our customer service hotline: 0830-2286718 when you require warranty service.	
9. Button Instructions	7	8. Please refer to the relevant national regulations for the product parts warranty.	
10. Routine Maintenance	7		
11. Troubleshooting	7		
12. Graphic Symbol Instructions	8		
13. List of Accessories	9		
14. Appendix EMC	10		

Warranty Card

Product Name: _____ Product Model no.: _____
 Purchase Date: _____ Customer Name: _____
 Company Name: _____ Telephone no.: _____
 Address: _____ Post Code: _____

Stamp: _____

- 1 -

1. Range of Application
 Display the temperature of subject by measuring thermal radiation of forehead.

2. Product Composition
 The thermometer is composed of infrared sensor, microprocessor, liquid crystal display, etc.

3. Precautions, Taboos and Warnings

Precautions

- Please read this manual carefully before use.
- Working temperature of this product is 10.0°C to 40.0°C, the optimal working temperature is 25.0°C.
- Please do not use this product in the environment with temperature higher than 40.0°C or lower than 10.0°C.
- Please do not place this product too close to the charged object to avoid electric shock.
- Please do not place this product in the environment with humidity higher than 80%.
- Please do not place this product too close to the electromagnetic range (such as radio, mobile phone, etc.)
- Please do not expose this product to the sun or near the stove, and keep away from water.
- Please do not bump or drop this product, and do not use when it is damaged.
- Hair, sweat, fat or scarf on forehead will affect the accuracy of measurement data.
- Please make sure that the measuring distance is not more than 15cm.

In order to get accurate, stable and reliable measurement, please measure from behind the earlobe when your forehead temperature cannot properly reflect body temperature due to sweating or other reasons.

Please use alcohol to gently wipe the surface of this product when needed.

12. In the event of a problem with this product, please contact the distributor and do not attempt to repair it yourself.

Taboos
 There is no standard body temperature. Please consult your doctor for fever.

- 2 -

Warnings

- Make sure to remove the hair and sweat from your forehead before measuring.
- To use this product cannot replace doctor's diagnosis.
- In the event of a problem with this product, please contact the distributor and do not attempt to repair it by yourself.
- The protective glass on LCD frame is very important, which is the fragile part of this product. Please handle with care.
- Please do not charge non-rechargeable battery and do not throw battery into fire.
- Please do not expose this product to the sun or near the stove, keep it away from water.

4. Technical Parameters

Transport & Storage	Temperature: 20°C ~ 55°C Relative Humidity: 93%
Atmospheric Pressure	70kpa-106kpa
Indicating Unit/Resolution	0.1°C
Accuracy/Body Temperature Mode	Within range 35.0°C ~ 42.0°C: $\pm 0.2^\circ\text{C}$ Out of range 35.0°C ~ 42.0°C: $\pm 0.3^\circ\text{C}$
Measuring Range	Body Temperature Mode: 32.0°C ~ 42.9°C
Measuring Distance	5-15cm
Operating Temperature	10.0°C-40.0°C
Operating Humidity	$\leq 80\%$
Power Supply	CR9V Battery
Automatic Power Off	30Sec
Product Size	100X46X160mm (Length * Width * Height)
Product Weight	125g (Battery not included)

- 3 -

5. Advice before Use
 The infrared forehead thermometer requires relatively high surrounding environment, correct use method is key to get the accurate temperature.

- This product is a professional infrared forehead thermometer for measuring human body temperature. Different people may get different body temperature value.
- Please place infrared forehead thermometer indoor for 20 minutes before use when the environment temperature changes greatly.
- When the tested person comes from place with different environment temperature, let him/her stay in the measuring environment for at least 5 minutes to start measuring.
- The environment around the tested person shall be stable, should not in places with large air flow, such as near fan or air conditioner.
- Please do not use this product outdoors in a place with strong sunlight.
- Please do not hold the front of the thermometer by hand when measuring.
- The measured part shall not be covered by hair; please use a dry towel to wipe sweat before measurement when needed, otherwise the measurement result will be affected.
- The measurement results of feverish patients may be on the low side after his/her forehead/cold compresses or sweating and other cooling measures, with which the measurement should be avoided.
- Comparison of different measurement methods: The temperature measured by different methods will be different. See the table below for the specific temperature difference.

Measuring Body Parts	Normal Temperature
Anal	36.6°C ~ 38.0°C
Oral	35.3°C ~ 37.5°C
Ampit	34.7°C ~ 37.3°C
Cochlear	35.8°C ~ 38.0°C
Forehead	35.8°C ~ 37.8°C

- 4 -

Warnings

- Make sure to remove the hair and sweat from your forehead before measuring.
- To use this product cannot replace doctor's diagnosis.
- In the event of a problem with this product, please contact the distributor and do not attempt to repair it by yourself.
- The protective glass on LCD frame is very important, which is the fragile part of this product. Please handle with care.
- Please do not charge non-rechargeable battery and do not throw battery into fire.
- Please do not expose this product to the sun or near the stove, keep it away from water.

4. Technical Parameters

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Measuring Range	Body Temperature Mode: 32.0°C ~ 42.9°C
Measuring Distance	5-15cm
Operating Temperature	10.0°C-40.0°C
Operating Humidity	$\leq 80\%$
Power Supply	CR9V Battery
Automatic Power Off	30Sec
Product Size	100X46X160mm (Length * Width * Height)
Product Weight	125g (Battery not included)

- 3 -

8. Operating Instructions

8.1 Thermometer Components

8.2 Operation Steps

- When the thermometer is in body temperature measurement mode, press and hold the power on button will keep it measuring necessarily. If no need long time measurement, press the power on key once only to get temperature.
- Body temperature and material temperature switching: Body temperature: press and hold "M" button (Notes: keep pressing), click backlight button to display human body temperature (Notes: there are body temperature highlighting on the screen), Material temperature: press and hold "M" button (Note: keep pressing), click buzzer button to display the material surface temperature (Notes: the body temperature on the screen are dim). After the switching, click the measurement button, then you can get temperature measured.
- Historical data viewing: The instrument will automatically record up to 32 historical measurement data. If you want to view data please press "M" button, and then "+" or "-" press "-" to view the last temperature record, press "+" for the farthest record. Press "+" or "-" again to view one by one.

- 6 -

9. Button Instructions

- Press "M" button once to view historical measurement data, short press "+" or "-" to circle the records, up to 32 historical measurement data available.
- If measurement result display "Lo" or "Hi", it is invalid measurement. These measurement results will not be recorded for count.
- Short press backlight button to turn on and off the backlight.
- Short press buzzer button to turn the sound on and off.

10. Routine Maintenance
 In process of using this product, please follow prompts when you find following situations.

- External smudge: wipe the dirt with a clean soft cloth, or wipe it with a cotton swab soaked with medical alcohol, which also has sterilization and disinfection function. Please make sure do not use too much water or medical alcohol or it may flow into product to cause damage.
- Internal smudge: the lens of measure probe is an important component. To assure the accuracy of measurement please do not touch or press it with fingers or other objects. Wipe surface of lens with a cotton swab soaked with anhydrous alcohol with purity more than 95%.
 Tips: do not use 75% disinfectant alcohol to wipe the lens (there will be water leftover), and do not use other chemical liquid to wipe the lens (it will cause damage).
- Storage: keep this product in a dry dark place, not directly exposed in the sun.

11. Troubleshooting
 If you found following problems when using our product, please refer to guides to solve the problem. Please call our after-sales service hotline if the problem still cannot be solved.

- Temperature displayed on screen higher than 42.9°C.
- Temperature displayed on screen lower than 32.0°C.
- When temperature displayed is too high, please do not hold the front part of thermometer, holding the probe will make results measured on the high side.
- "Hi" displayed on screen: "body temperature" mode, when the measured temperature exceeds 42.9°C, product will display "Hi", please first check whether the measured part of the human body has been exposed to external heat source, if not, please call our after-sales service hotline for further instructions.

- 7 -

(5) "LO" displayed on screen
 In "body temperature" mode, when the measured temperature is lower than 32.0°C, product will display "LO". Please follow prompts in following table to find out reason. If it is confirmed that it is not these reasons, please call our after-sales service hotline.

Reasons for display "LO"	Resolve advice
Hair cover or sweat	Make sure nothing cover or sweat on forehead
Cool Air blow forehead	Ensures the stability of air
Forehead being cold compressed	Wait for 15min to measure after cold compress
Measure distance too far	The optimal measurement distance is 5-15cm, thermometer not need touch skin.

12. Graphic Symbol Instructions

Symbol	Instruction	Symbol	Instruction
	BF type device		No rain proof
	Refer to attached file		Hand truck forbidden
	Refer to user manual		Fragile
	Direct current		Upper side

- 8 -

13. List of Accessories
 CR9V 6F22 Battery, User Manual, Warranty Card, Quality Certificate

- 9 -

14. Appendix EMC
 14.1 EMC (Electro Magnetic Compatibility)

⚠️ Cautions:

- This thermometer conforms to EMC (electromagnetic compatibility) standards YY0505.
- The user shall install and use this product according to the EMC information provided in attached contents.
- Portable and mobile RF communication equipment may affect the performance of this thermometer, avoid strong electromagnetic interference when using, such as near mobile phones, microwave ovens, etc.

See the attached table for guide and statement from manufacturer.

⚠️ Warnings:

- This thermometer shall not be used close to or stacked with other equipment. If it must be used close to or stacked, it shall be observed and verified that it can operate normally in the configuration.
- In addition to the cables sold by the manufacturer for spare parts, the use of accessories and cables other than those specified may cause decrease of anti-interference function of this thermometer.
- Wireless transmission and reception frequency: Antenna: 240-2480MHz Reception: 240-2480MHz

Radiation Symbol:

This thermometer may be interfered by other devices even when other devices meet the radiation corresponding standards.

Table 1
 Guidance and Manufacturer's Declaration - Electromagnetic Emission

This thermometer is expected to be used in the following specified electromagnetic environment, and the buyer or user shall ensure that it is used in electromagnetic environment:

Emission Test	Group	Level	Electromagnetic Environment Guidance
RF Emission GB4824	Class 1	B	This thermometer only uses RF energy for its internal communication, and the buyer or user shall ensure that it is used in electromagnetic environment.
RF Emission GB4824	Group 1	A	This thermometer only uses RF energy for its internal communication, and the buyer or user shall ensure that it is used in electromagnetic environment.
Harmonic Emission GB17625.1	Class A	A	This thermometer is suitable for use in all facilities, including those connected to public low-voltage grid for home use.
Voltage Fluctuation & Flicker Emission GB17625.2	Comform		

- 10 -

Table 2
 Guidance and Manufacturer's Declaration - Electromagnetic Emission

This thermometer is expected to be used in the following specified electromagnetic environment, and the buyer or user shall ensure that it is used in electromagnetic environment:

Immunity Test	IEC 60601 Test Level	Conformity Level	Electromagnetic Environment Guidance
Electrostatic Discharge GB/T 17626.2	±8KV Contact Discharge ±8KV Air Discharge	±8KV Contact Discharge ±8KV Air Discharge	The floor shall be wood, concrete or tile, and the floor is covered with synthetic material, humidity shall be at least 30%.
Electrical Fast Transient Pulse Group GB/T 17626.4	±2KV For power cord	±2KV For power cord	The on-grid power supply should be of the quality typically used in commercial or hospital environment.
Surge GB/T 17626.5	±1KV Line to Line ±2KV Line to Ground	±1KV Line to Line ±2KV Line to Ground	The on-grid power supply should be of the quality typically used in commercial or hospital environment.
Voltage sag, temporary interruption and voltage change on power input line GB/T 17626.11	5% U _n Keep 0.5 period (+95% Sag on UL) 10% U _n Keep 25 period (-60% Sag on UL) (30% Sag on UL) -5% U _n Keep 5S (+95% Sag on UL)	5% U _n Keep 0.5 period (+95% Sag on UL) (-60% Sag on UL) (30% Sag on UL) -5% U _n Keep 5S (+95% Sag on UL)	The on-grid power supply should be of the quality typically used in commercial or hospital environment. If the user of this thermometer needs to use the uninterrupted power supply or battery.
Power Frequency Magnetic Field (50/60Hz) GB/T 17626.8	3A/m	3A/m 50Hz, 60Hz (if GBTC available)	The power frequency magnetic fields should have the horizontal characteristics of typical place as commercial or hospital.

note: U_n is AC voltage

- 11 -

Table 3
 Guidance and Manufacturer's Declaration - Electromagnetic Immunity

This thermometer is expected to be used in the following specified electromagnetic environment, and the buyer or user shall ensure that it is used in electromagnetic environment:

Immunity Test	IEC 60601 Test Level	Conformity Level	Electromagnetic Environment Guidance
RF Transmission GB/T 17626.6	3V (3dB Value)	3V (Value)	Portable and mobile of communication equipment should not be used closer to any part of the thermometer than the recommended isolation distance, including cables. The distance is calculated by a formula corresponding to the transmitter frequency. The recommended separation distance: $d = 1.2 \sqrt{\frac{P}{f}}$ (100 MHz ~ 800 MHz) $d = 2.3 \sqrt{\frac{P}{f}}$ (800 MHz ~ 2.5 GHz)
RF Radiation GB/T 17626.3	3V/m	3V/m	According to the maximum rated output power of the transmitter provided by the transmitter manufacturer, in watts (W); Recommended isolation distance in meters (m). If the length of a stationary RF transmitter is determined by surveying the electromagnetic field and shall be lower than the coincidence level at each frequency range: $d = \sqrt{\frac{P}{f}}$

Note 1: at 80MHz and 800MHz, the formula of higher frequency band is used.
 Note 2: these guidelines may not be suitable for all the situations due to electromagnetic propagation may be affected by buildings, objects and absorption/reflection of human body.

The field strength of stationary transmitters, such as base stations for wireless (cellular, cordless) telephones and ground mobile radios, ham radios, AM and FM radio broadcasts, and television broadcasts, cannot be accurately predicted in theory. In order to assess the electromagnetic environment of a stationary RF transmitter, magnetic field survey should be considered. If the field strength at the site of the thermometer is measured to be higher than the applicable RF coincidence level, the thermometer shall be observed to verify its normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorientation or repositioning of thermometer. Throughout 150 KHz ~ 80 MHz frequency range, the field strength should be lower than 3 V/m.

- 12 -

Table 4
 The recommended isolation distance between portable and mobile RF communication equipment and this thermometer.

This thermometer is expected to be used in an electromagnetic environment where RF radiation disturbance is controlled. According to the maximum rated output power of the communication equipment, the purchaser or user can prevent electromagnetic interference by maintaining the minimum distance between portable or mobile RF communication equipment (transmitter) and this thermometer at recommended below.

The isolation distance (m) corresponds to different frequencies of transmitter

The rated maximum output power of the transmitter (W)	150 kHz ~ 10 MHz $d = 1.2 \sqrt{P}$	10 MHz ~ 100 MHz $d = 1.2 \sqrt{P}$	100 MHz ~ 2.5 GHz $d = 2.3 \sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

If the recommended output power of the transmitter is not listed in above table, the isolation distance (in meters (m)) is recommended, which can be determined by the formula in the frequency band of the corresponding transmitter. P is the maximum rated output power of transmitter provided by manufacturer, in watts (W).

Note 1: at 80MHz and 800MHz, the formula of higher frequency band is used.
 Note 2: these guidelines may not be suitable for all the situations due to electromagnetic propagation may be affected by buildings, objects and absorption/reflection of human body.

- 13 -