



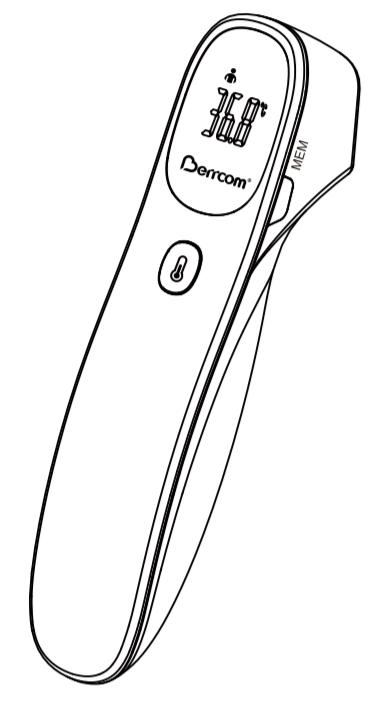
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THE MANUFACTURER RESERVES THE
RIGHT TO ALTER THE SPECIFICATIONS
OF THE PRODUCT WITHOUT PRIOR
NOTIFICATION

Non-contact Infrared Thermometer
JXB-311

Version: V.02



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I. Intended use

The device is an infrared thermometer intended to measure forehead temperature of infants and adults without contacting human body. It can be used by consumers in household environment and doctor in clinic as reference.

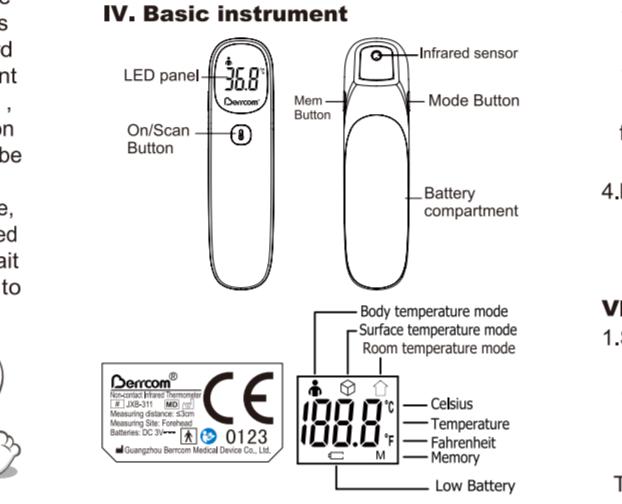
II. Warnings and precautions

- Only use this thermometer once you have read and understood the instruction for use.
- Only use this thermometer for the specific purposes described in the instruction manual. Any misuse will void the warranty.
- This thermometer may be used for professional purposes or for personal home use.
- Using this 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 particular, do not start taking any new medication or change the type and/or dosage of any existing medication without prior approval.
- Specially, do not take any new medication or change the type and/or dosage of any existing medication without consulting your doctor and obtaining your doctor's approval.
- This thermometer must be operated by adults, and be placed out of the reach of infants.
- 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 in a location that is cooler or warmer than where it is being used, please put it in operation place for at least 30 minutes before taking the measurement.
- After physical activity, a bath or spending time outdoors, wait approx. 30 minutes before you take a measurement on your forehead.
- 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).

III. Operating principle

All objects, solid/liquid or gas, emit energy by radiation. The intensity of this energy depends on the temperature of the object. The JXB-311 infrared thermometer is therefore able to measure the temperature of a person by the energy the person emits. This measurement can be taken thanks to the device which permanently analyses and registers the ambient temperature. Therefore, as soon as the operator holds the thermometer near the body and activates the radiation sensor, the measurement is taken instantly by detection of the infrared heat generated by the arterial blood flow. Body heat can therefore be measured without any interference from the heat of the surrounding environment.

IV. Basic instrument



V. Instructions

1. Install battery.
2. For the first use or when inserting new battery, wait from 10-15 minutes for the warm up of the unit. This will allow the unit to become acclimated to the temperature of the room.
3. When measuring the body temperature, the product should be pointed to the center of the forehead - it should keep vertical and above the eyebrows. The measurement area should not be covered by hair, the product and the forehead's distance should be kept within 3cm (the optimal distance is the adult index finger's thickness). Do not touch the forehead directly. In the switch on state, press the " " button to take the temperature, and the product body will be vibrated, and the measurement is completed. At the same time the screen will display the measure data.
4. Temperature unit setting
 1. In the switch on state, press and hold the "MODE" button for 2 seconds, the screen will display "F4", press the "MODE" button again, the screen will display "F5", when enter the temperature unit setting, then "F5" and the unit symbol "°C" or "°F" will be flashed continuously, press the "MEM" button to select Celsius "C", press the " " button to select Fahrenheit "F", then press the "MODE" button to save and return to the standby state.
5. Memory query and clear
 1. In the switch on state, press the "MEM" button, the screen will display the last measured data, and can review up to 32 groups of the data, press the " " button more than 3 seconds will be turned off.

VI. Setting and function of menu

1. Switch on the device
2. Press the " " button one second after the screen panel in full display, it will enter the standby mode with the sign " " or " ".
3. Then press the " " button again, you will

Additional usage:

JXB-311 can also be used to measure the temperature of a baby-bottle or bath (by using the Surface Temp Mode), or room temperature (by using the Room Mode).

Additional usage:

In the switch on state, press the "MEM" button, the screen will display the last measured data, and can review up to 32 groups of the data, press the " " button more than 3 seconds will be turned off.

IX. EMC Declaration

The ME EQUIPMENT or ME SYSTEM is suitable for home healthcare and clinic environments. **Warning:** Don't near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbance is high.

THE SCREEN DISPLAYS THE MESSAGE HI
When using the JXB-311 Thermometer, the message "HI" can show on the screen.

In this case, the temperature is above the measurement range selected, either above 43.0°C (109.4°F) in Body Mode.

X. Guidelines

This device complies with the EU Directive 93/42/EEC concerning medical products, the ISO 8032-1-2-38 and the European Standard EN60601-1-2 and is subject to particular precautions with regard to electromagnetic compatibility.

XI. Troubleshooting

If you have problems while using your thermometer, please refer to this guide to help solve the problem. If the problem persists, please contact our customer service.

Storage and transportation condition

Ambient temperature	20°C ~ 35°C ~15°F ~131°F
Relative humidity	< 85%RH
Atmospheric pressure	700 hPa to 1060 hPa
Weight	Approx.64g (Battery excluded)
Product Size	Approx. 154 x 40 x 31 mm (L x W x H)
Expected Service Life	5 years
Automatic power off	less than 30 secs
Measuring Site	Forehead
Reference body site	Axillary
Mode of operation	Adjusted mode

Disinfection:

- 1) Use an 75% ethyl alcohol swab or cotton swab moistened with 75% ethyl alcohol to disinfect the thermometer casing and the measuring probe about 30 seconds.
- 2) Repeat the above steps at least 3 times, then wipe surface and probe dry with a clean cloth, and wait about 1 minute for drying after disinfection process.

Note:

- Ensure that no liquid enters the interior of the thermometer.
- Never use abrasive cleaning agents, thinners or benzene for cleaning and never immerse the Thermometer in water or other cleaning liquids.
- Take care not to scratch the surface of the probe lens and the display.
- If the visual inspection identifies unacceptable deterioration such as corrosion, discoloration, pitting, cracked, then the device should be stop to use and discard.
- If the thermometer is used for between patients, please visually inspect the thermometer to determine if there is stain or oil on the casing or probe after each use, and follow the instruction of cleaning and disinfection to cleaning your thermometer.

X. Accessories

Non-Contact Infrared Thermometer 1 pc
User Manual 1 pc

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THE SCREEN DISPLAYS TEMPERATURE HIGHER THAN 43.0°C (109.4°F):

The temperature is in Fahrenheit. Change the measurement to Celsius.

THE SCREEN DISPLAYS TEMPERATURE LOWER THAN 32°C (89.6°F):

To take the surface temperature, press the "BODY" button and set to the reading called "Body".

If the device is in Surface Temp Mode, the 32°C (89.6°F) temperature displayed is showing the external temperature of your body, rather than the internal.

THE SCREEN DISPLAYS THE MESSAGE HI

When using the JXB-311 Thermometer, the message "HI" can show on the screen.

In this case, the temperature is above the measurement range selected, either above 43.0°C (109.4°F) in Body Mode.

THE SCREEN DISPLAYS THE MESSAGE LO

When using the JXB-311 Thermometer, the message "LO" can show on the screen.

In this case, the temperature analyzed is under the measuring range selected, either less than 32°C (89.6°F) in Body Mode.

This message displays for various reasons. Please find below a list of the main issues:

Reasons for LO message display	Advice
Temperature reading hampered by hair or perspiration.	Make sure there is no obstruction or dampness prior to taking temperature.
Temperature hampered by an air draft or dramatic change in ambient temperature.	Make sure there is no air blowing in the area of use; this could affect the infrared reading.
Temperature readings are too close together, and the thermometer did not have time to reboot.	Pause for 3-5 seconds minimum between readings; a 15 seconds pause is recommended.
The measuring distance is too far.	Take measurements at the recommended distance (app. 0cm~3cm).

XIII. Explanation of symbols

Symbol	Description of symbol
	Trade mark
	Application part, Type BF
	Direct current
	Protected against access to hazardous parts with a finger and against vertically falling water drops when enclosure tilted up to 15°
	Refer to instruction manual / booklet
	DISPOSAL: Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.
	Manufacturer
	Serial number
	The CE labelling certifies that the product complies with the essential requirements of Directive 93/42/EEC on medical device.
	Medical device
	Country of manufacture
	Authorized representative in the European Community/European Union

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XV. Warranty/service

In accordance with our policy of continual product improvement, we reserve the right to make technical and optical changes without notice. Warranty and repair terms: 18 months.

Please contact your dealer or the service centre in case of a claim under the warranty. If you have to return the unit, please enclose a copy of your receipt and state what the defect is. The following warranty terms apply:

1. The warranty period for BERRCOM products is 18 months from date of purchase. In case of a warranty claim, the date of purchase has to be proven by means of the sales receipt or invoice.
2. Defects in material or workmanship will be removed free of charge within the warranty period.
3. Repairs under warranty do not extend the warranty period either for the unit or for the replacement parts.

4. The following is excluded under the warranty:

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

Table 2

Guidance and manufacturer's declaration - electromagnetic immunity		
Immunity Test	IEC 60601-1-2 Test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air
Electrical fast transient/burst IEC 61000-4-4		Not application
Surge IEC 61000-4-5		Not application
Voltage dips, short interruptions and voltage variations in power supply input lines IEC 61000-4-11		Not application
Power frequency magnetic field IEC 61000-4-8	30 A/m 50Hz/60Hz	30 A/m 50Hz/60Hz
Conducted RF IEC61000-4-6		Not application
Radiated RF IEC61000-4-3	10 V/m 80 MHz ~ 2.7 GHz 80 % AM at 1 kHz	10 V/m 80 MHz ~ 2.7 GHz 80 % AM at 1 kHz

Table 3

Guidance and manufacturer's declaration - electromagnetic immunity
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