Non-contact Infrared Thermometer
JXB-315

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

Version: V.01

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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

- Before and after each use, the thermometer should be cleaned according to the requirement of this manual to avoid possible bacterial infections.
- Do not expose this thermometer to electric shocks.
- Do not expose this thermometer to extreme temperature conditions of greater than 55°C (131°F) or less than -20°C (-4°F).
- Do not use this thermometer in relative humidity higher than 85%.
- Do not put this product in the place of direct sunlight, high temperature, high humidity, excessive dust, or the place where it may contact with corrosive gas or liquid, and do not use this product in the above environment.
- Do not drop this thermometer.
- DO NOT TOUCH THE GLASS OF THE INFRARED SENSOR WITH YOUR FINGERS AS IT IS EXTREMELY FRAGILE AND COULD CAUSE INJURY.
- Do not use this thermometer if it is damaged. Do not open up this thermometer. It contains small parts which might be swallowed by children.
- Never immerse the device in water or other cleaning liquids, and do not let any liquid enter the interior of this product.
- If an error occurs or if the device is damaged, DO NOT attempt to repair this device yourself, as this will void the warranty. Contact your dealer and only have repairs carried out by authorized service partners.
- Remove the batteries if you do not wish to use the unit for an extended period of time. Otherwise there is a danger that the batteries may leak.
- Keep the thermometer away from electromagnetic fields produced by objects such as microwave ovens, arc welders and induction heaters.
- 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).

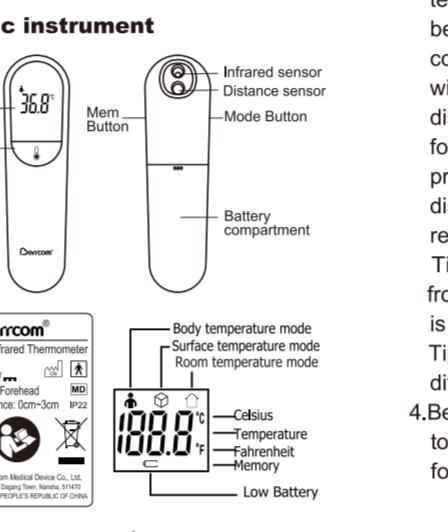
III. Operating principle

All objects, solid, liquid or gas, emit energy by radiation. The intensity of this energy depends on the temperature of the object. The JXB-315 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 an external temperature probe on 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 infrared 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.

How to use your Berrcom Non-contact Infrared Thermometer

1. Insert two batteries according to manual provided in Section VII.
2. For the first time after installing batteries, wait 10-15 minutes for the device to warm up and adjust to the room temperature.
3. Press the On/Scan button "  ", place 0-3 cm (0-1.2in) away from forehead.
4. After taking an individual's temperature, make sure any hair, dirt or dust is removed from forehead and forehead is dry. Wait 10 minutes after such removal prior to measuring temperature.

IV. Basic instrument



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Additional usage:

JXB-315 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).

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 eyebrow. The measurement area should not be covered by hair, the product and the forehead's distance should be kept within 3cm(1.2in) (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. If the distance between the product and the forehead is more than 3cm(1.2in), the product body is not vibrating, the product display interface is flashing, and it will be returned to standby after 5 seconds.

Tip 1: The product cannot be removed from the location when the measurement is not completed.

Tip 2: The measurement distance will be different for different skin colors.

4. Before taking the temperature, make sure to remove hair and perspiration from the forehead.

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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

Press the "  " button again, you will get the measuring result in 1 second. But if there is no more operation, it will turn off in 30 seconds automatically, or press the "  " button for 5 seconds, all current memory data will be cleared, and restore to the factory setting.

6. Over temperature prompt function

In the switch on state, press the "MODE" button, the screen will display "  ", it is "Body temperature mode". When press the "MODE" button again, the screen will display "  ", it is "Room temperature mode". Note: The thermometer default is set to Body temperature mode.

3. Temperature overall offset setting

Under the standby mode, press and hold the "MODE" button for 5 seconds. After the screen display "  ", until the temperature overall offset setting. When "  " and "0.0°C(F)" is flashing, press the "MEM" button to increase 0.1°C(F), press "  " button to decrease 0.1°C(F), offset value can be in range of -3°C ~ 3°C (-5.4°F ~ 5.4°F) by the internal setting, press the "MODE" button twice, and the setting data will be returned to the standby state. Note: The thermometer default is set to +0.0°C(0°F).

4. Temperature unit setting

In the switch on state, press and hold the "MODE" button for 2 seconds, the screen will display "  ", press the "MODE" button again, the screen will display "  ", when enter the temperature unit setting, then "F5" and the unit symbol "C" or "F" for

△ Chocking hazard!

Small children may swallow and choke on small children's toys.

Storage and transportation condition	Ambient temperature: -20°C ~ 55°C (-4°F ~ 131°F) Relative humidity: 10% ~ 95%RH Atmospheric Pressure: 700 hPa to 1060 hPa
Weight	Approx.66g (Battery excluded)
Product Size	Approx. 145 x 40 x 32 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 75% ethyl alcohol swab or cotton wool 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.
• Do not touch 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 stopped to use and discard.

X. Accessories
Non-Contact Infrared Thermometer 1 pc
User Manual 1 pc

XI. Guidelines
This device complies with the EU Directive 93/42/EEC concerning medical products, the ISO 80601-2-56 and the European Standard EN60601-1-2 and is subject to particular precautions with regard to electromagnetic compatibility.

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

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

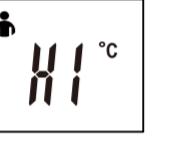
The temperature is in Fahrenheit. Change the measurement to Celsius.

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

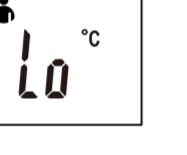
When using the JXB-315 Thermometer, the message "HI" can show on the screen.



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-315 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).

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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.
	Date of manufacture
	Model number
	Medical device
	Country of manufacture
	Authorized representative in the European Community/European Union

XIV. 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 disturbances is high. Warning: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally. Warning: Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation." Warning: 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 of the equipment JXB-315, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

1. All necessary instructions for maintaining BASIC SAFETY and ESSENTIAL PERFORMANCE with regard to electromagnetic disturbances for the expected service life. Portable and mobile RF communication equipment may affect the performance of the JXB-315, avoiding strong electromagnetic interference when used, such as near mobile phones, microwave ovens, etc.

2. Guidance and manufacturer's declaration -electromagnetic emissions and Immunity.

Table 1
Guidance and manufacturer's declaration - electromagnetic emissions and Immunity

Emissions test	Compliance

<tbl_r cells="2" ix="3" maxcspan="1" maxrspan="1" usedcols="2