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THE MANUFACTURER RESERVES THE RIGHT TO ALTER THE SPECIFICATIONS OF THE PRODUCT WITHOUT PRIOR NOTIFICATION
V.01

Non-contact Infrared Thermometer
JXB-306

I. Features

1. Special design to take the Human Body Temperature with a 3cm ~ 5cm (1.2in ~ 2in) distance from forehead.
2. Reliable and stable measurement, thanks to the advantage Infrared Detection System.
3. Memorize the last 32 temperature measurements.
4. Three color Backlights LCD digital display screen.
5. Temperature unit can be displayed in either Celsius or Fahrenheit.
6. Automatic power-off (≤30 secs) to conserve energy.
7. Longevity use (100,000 readings)
8. Practical, easy to use.

II. 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.

III. Safety Precautions

- Follow the maintenance advice stipulated in this instruction manual.
- This device may be used for professional purposes or for personal home use.
- This device must only be used for the purposes described in this instruction manual.
- This device must only be used in an ambient temperature range of between 10°C (50 °F) and 40°C (104 °F) .
- This device must be always kept in a clean, dry area.
- Do not expose this thermometer to electric shocks.
- Do not expose this thermometer to extreme temperature conditions of >55°C (131°F) or <-20°C (-4°F) .
- Do not use this device in relative humidity higher than 85%.

- Do not touch the glass of the infrared sensor with your fingers.
- Clean the glass with a cotton bud lightly moistened with 95% alcohol.
- Do not expose the thermometer to sunlight or to water.
- Never drop the device.
- Should a problem occur with your device, please contact your retailer. Do not attempt to repair this device yourself.
- The device is not suitable for use in the presence of flammable anesthetic mixtures with air or with oxygen or nitrous oxide.
- The device requires no calibration.
- The device is not repairable and contains no user serviceable parts.
- Manufacturer will provide circuit diagrams, component part lists, descriptions, calibration instructions to assist to SERVICE PERSONNEL in parts repair.
- No modification of this equipment is allowed.
- Remove batteries if equipment is not likely to be used for some time.
- The user must check that the equipment functions safely and see that it is in proper working condition before being used.
- The manufacturer does not require such preventive inspections by other persons.
- Contact the manufacturer for assistance or reporting.
- Keep the equipment away from children and pets.

It is essential to use the Non-contact Infrared Thermometer Model JXB-306. You are therefore

advised to read this instruction manual and the safety precautions carefully before use.

The Non-contact Infrared Thermometer Model JXB-306 is pre-set at the factory.

It is not necessary to calibrate the device when starting it up. However, in order to obtain reliable results, you are advised to allow the thermometer to acclimatize to ambient temperature for 15 to 20 minutes before using each time there is a significant change in environmental temperature.

It is also important to allow a 3 ~ 5 seconds interval between measurements.

IV. How The Non-contact Infrared Thermometer Model JXB-306 Works

All objects, solid, liquid or gas, emit energy by radiation. The intensity of this energy depends on the temperature of the object. The JXB-306 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 radiation sensor, the measurement is taken instantly by detection of the infrared heat generated by the arterial blood flow. Therefore body heat can be measured without any interference from the heat of the surrounding environment.

Use the Non-contact Infrared Thermometer Model JXB-306:

- When you have reason to believe you are sick.
- When you are recovering from surgery, illness or exhaustion.
- For monitoring body temperatures.
- When exercising, hiking, or doing strenuous physical activity.
- When traveling or when you are under abnormal stress.

V. Nomal Temperatures According To Age

Age	°C	°F
0 ~ 2 years	36.4 ~ 38.0	97.5 ~ 100.4
3 ~ 10 years	36.1 ~ 37.8	97.0 ~ 100.0
11 ~ 65 years	35.9 ~ 37.6	96.6 ~ 99.7
> 65 years	35.8 ~ 37.5	96.4 ~ 99.5

Manufacturer does not take responsibility for the results or actions of non-medical personnel using the Non-contact infrared thermometer Model JXB-306.

VI. How To Take A Temperature

Aim at the middle of forehead, from a distance of about 3cm~5cm, press the thermometer's measurement button and the temperature is instantly displayed. (as fig.1)

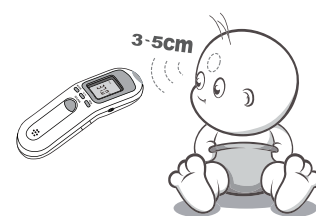


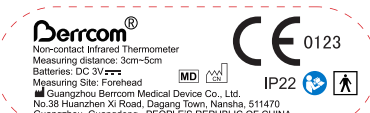
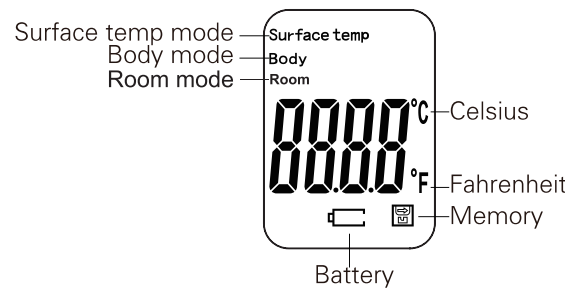
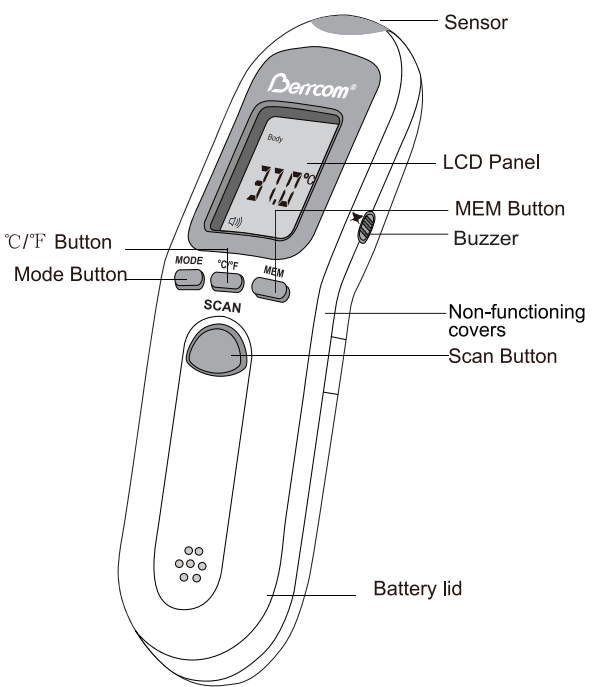
fig.1



The reliability of the measurement cannot be guaranteed if the temperature is measured over another part of the body (e.g. arm, torso...)

VII. Basic Instrument

The type BF applied part :Sensor.



VIII. Instructions

1. Install battery
2. For the first use or when inserting new batteries, 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. Aim towards the desired location, keeping the unit at a distance of 3cm ~ 5cm (1.2in ~ 2in) from forehead. The measuring is done when the temperature is showing in the screen or the beep is announcing, measuring time is one second.
4. Before taking the temperature, make sure to remove hair and perspiration from the forehead. You can also take the temperature behind the ear lobe.

IX. Setting And Function Of Menu

1. Setting the mode:
Press mode button, and the screen will display: Room "----°C". Press again and the screen will display: Surface Temp "----°C". Press again and the screen will display: Body "----°C". Note: The JXB-306 default is set to BODY mode.
2. Press the "°C / °F" button to transfer between Celsius and Fahrenheit.
3. Press "MEM" button, which will then display the last temperature, and allows for a view of the last 32 measurements taken.

Important: The surface temperature differs from the internal body temperature. To obtain the internal temperature always use the BODY mode. Please make sure to select the BODY mode for an internal temperature reading and the SURFACE TEMP mode for an external area reading.

4. In the switch on state, press "ON" can open or close the buzzer.
When the screen shows "ON", the buzzer opened. When the screen shows "OFF", the buzzer closed.
5. Instructions for recalibration set (To adjust variation of JXB-306)
When to use it?
When there is the difference between JXB-306 and mercury thermometer, and you believe mercury thermometer from its temperature but it is not convenient to use. You can use recalibration function to adjust the JXB-306 to make it the same test result with mercury thermometer after recalibration. Besides, when you use JXB-306 for the people with different skin color (For example: the yellow race, the white race, black people and so on) you can use recalibration too.

How to use it?

Press the "MODE" and "°C / °F" buttons at the same time for 3 seconds.
The screen will then display: "F4"
Press "Mode" to increase 0.1°C (°F), press "°C / °F" to reduce 0.1°C (°F). Press "MEM" button to save the setting.

X. Battery Low Voltage Detection

If the battery voltage is not more than 2.7V, the Non-contact Infrared Thermometer Model JXB-306 will display the flashed symbol " " to remind you to replace the battery.

XI. Changing The Battery

This JXB-306 is with 2 AAA alkaline batteries for 20,000 times use. When the LCD screen displays " " , the battery should be replaced. Open the lid and change the battery, taking great care with the correct positioning. A mistake with this could cause damage to the unit and compromise the guarantee of your Non-contact Infrared Thermometer. (as fig.2)

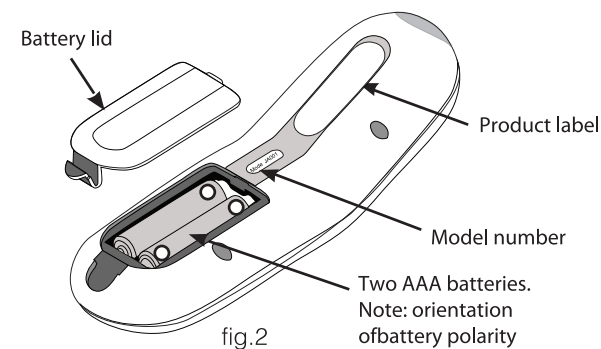


fig.2

XII. Technical Specifications

1. Normal using condition
Ambient temperature: 10°C ~ 40°C (50 °F ~ 104 °F)
Relative humidity: ≤ 85%
Pressure altitude: 700hPa to 1060hPa
2. Storage and shipping condition
Ambient temperature: -20°C ~ 55°C (-4 °F ~ 131 °F)
Relative humidity: ≤ 95%
Pressure altitude: 700hPa to 1060hPa
3. Batteries: DC 3V (2 pcs AAA batteries)
4. Unit size: 162x50x40mm-6.38x1.97x1.57in (L x W x H)
5. Unit weight: about 85g (without Battery)
6. Temperature display resolution: 0.1°C (0.1 °F)
7. Measuring range:
In body mode: 32°C ~ 43°C (89.6 °F ~ 109.4 °F)
Under body mode, there is three color backlights:
Green color backlit: ≤ 37.3°C (99.1 °F), means normal temperature.
Orange color backlit: 37.4°C ~ 37.9°C (99.3 °F ~ 100.2 °F), means low fever.
Red color backlit: ≥ 38 °C (100.4 °F), means high fever.
In surface mode: 0°C ~ 60°C (32 °F ~ 140 °F)
8. Precision:
32.0°C ~ 34.9°C (89.6 °F ~ 94.8 °F) ±0.3°C (±0.6 °F)
35.0°C ~ 42.0°C (95.0 °F ~ 107.6 °F) ±0.2°C (±0.4 °F)
42.1°C ~ 43.0°C (107.8 °F ~ 109.4 °F) ±0.3°C (±0.6 °F)
9. Consumption: ≤ 300mW
10. Accuracy: ±0.3°C (±0.6 °F)
11. Measuring distance: 3cm ~ 5cm (1.2 in ~ 2.0in)
12. Automatic power-off: ≤ 30 secs
13. Memory: 32 sets
14. Measuring site: Forehead
15. Reference body site: Axillary
16. Mode of operation: Adjusted mode

*Note: The Non-contact Infrared Thermometer Model JXB-306 can take temperature readings below 32°C or

above 43°C (89.6 °F to 109.4 °F) but precision is not guaranteed outside of this range.

Longevity of the Product:

The Non-contact Infrared Thermometer Model JXB-306 was conceived for an intense and professional use. Its longevity is guaranteed for 100,000 takings.

XIII. Maintenance Of The Product

- The infrared sensor is the most important and fragile part of the thermometer. Take care when using, storing or cleaning.
- Clean infrared sensor with cotton fabric dampened with a 95% alcohol solution.
- Do not throw battery in fire. Please dispose of battery properly.
- Remove the battery when thermometer is not used for an extended period of time.
- Do not expose the thermometer to water or excessive sunlight.
- An impact may damage the product.

XIV. Accessories

- User manual in English: 1 pc
- AAA alkaline batteries: 2 pcs

XV. 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.

XVI. Classification

1. Internally powered equipment;
2. Type BF applied part;
3. IP22;
4. Continuous operation;

XVII. Troubleshooting

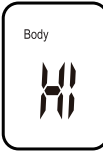
If you have problems while using your thermometer, please refer to this guide to help resolve the problem. If the problem persists, please contact our customer service.

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

To take the surface temperature, press the mode 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.

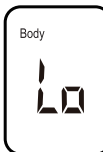
THE SCREEN DISPLAYS THE MESSAGE HI

When using the Non-contact Infrared Thermometer Model JXB-306 the message "HI" can show on the screen. In this case, the temperature analyzed is either above the measurement range selected, or above 43°C (109.4 °F) in Body Mode.



THE SCREEN DISPLAYS THE MESSAGE LO

When using the Non-contact Infrared Thermometer Model JXB-306, the message "LO" can show on the screen. In this case, the temperature analyzed is either under the measuring range selected, or 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. 3cm ~ 5cm, 1.2in ~ 2.0 in).

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

XIX. 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-306, 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 excepted service life.
Portable and mobile RF communication equipment may affect the performance of the JXB-306, avoiding strong electromagnetic interference when used, such as near mobile phones, microwave ovens, etc.

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

Guidance and manufacturer's declaration -electromagnetic emissions and Immunity

Emissions test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions IEC 61000-3-2	Not application
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not application

Immunity Test	IEC 60601-1-2 Test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±6 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±6 kV, ±15 kV air
Electrical fast transient/burst IEC 61000-4-4	Not application	Not application
Surge IEC 61000-4-5	Not application	Not application
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	Not application	Not application

Power frequency magnetic field IEC 61000-4-6	30 A/m 50Hz/60Hz	30 A/m 50Hz/60Hz
Conducted RF IEC61000-4-6	Not application	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

NOTE UT is the a.c. mains voltage prior to application of the test level.

Guidance and manufacturer's declaration - electromagnetic immunity							
Radiated RF IEC1000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment)	Test Frequency (MHz)	Band (MHz)	Service	Modulation	Distance (m)	IMMUNITY TEST LEVEL (V/m)	
385	380-390	TETRA 400	Pulse modulation 16 Hz	1.8	0.3	27	
	450	430-470 GMSR 460 FRS 460	5 kHz sine wave pulse modulation 1 kHz	2	0.3	28	
	710	704-767	TE Band 13, 17	0.2	0.3	9	
	745						
	780						
	810						
	870						
	930	800-860	SDR 800000 TETRA 800 GSM 800 CDMA 800 J3E Band 1	Pulse modulation 16 Hz	2	0.3	28
	1720						
	1845						
1970	1720	1710-1990	SDR 1000				
	1845						
	1970						
	2450	2400-2570	SDR 1000 SDR 1000 J3E Band 1 4.5 kHz	Pulse modulation 217 Hz	2	0.3	28
	5240						
	5200	5100-5600	WLAN 802.11n RFD 802.11n J3E Band 7	Pulse modulation 217 Hz	2	0.3	28
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