

User Manual

Model:LY168

Infrared Thermometer



Guizhou Medical Instrument Co.,Ltd

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 Please cut along the dotted line

1-Year Warranty Card

Thank you very much for choosing our products. To ensure that you enjoy timely and thoughtful after-sales service, please filled in this card completely and clearly. The warranty is based on this warranty card, to ensure that you can enjoy after-sales service.

Product Model :	Full Name:
Date of Purchase :	
Address:	
Tel:	Postcode:
Mobile :	Email:
Purchase Address:	Product ID :




1.General Description

Non-Contact Infrared Forehead Thermometer is specially designed to take the body temperature of a person regardless of the room temperature. Depending on various skin types and thickness, there may be temperature difference.

2.Safety Information

- 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 between 5°C and 40°C. The optimal temperature is 25 °C. Do not expose this thermometer to extreme temperature conditions of above 50°C or below 0°C.
- Do not expose this thermometer to electric shocks.
- Do not use the device in relative humidity higher than 85%.
- Do not use the device near large electromagnetic fields such as founds with cordless or cell phones.
- Keep the device away from water and heat, including direct sunlight. Do not drop or shock the device, and do not use if damaged.
- It may affect the accuracy of measurements when the forehead is covered by hair, perspiration, cap or scarf.
- Keep the Measuring distance as 5cm-15cm (2in-5.9in).
- It may affect the accuracy of measurements when the forehead is covered by perspiration or other factors, please take the temperature behind the ear lobe.
- When cleaning, wipe the surface of the meter lightly with alcohol.
- Please contact the distributor if there is any problem with the product and it is forbidden to repair the product by yourself. It is forbidden to take body temperature measurement when the ambient temperature changes greatly.

3.Features

- 1) Non-contact high-precision temperature measurements.
- 2) User can select °C or °F. Setting method: press the " " button for 8 seconds to switch.
- 3) Alarm value can be set (the preset value of this product is 38 °C. Setting method: set by default.
- 4) Beep alert function (can be set to open or close the buzzer) Setting method: press the " " button once when the power on, and the buzzer will turn on.
- 5) LCD display with backlit for the user to use in the dark, setting method: under power on, press and hold the " " button once to turn on the backlight.
- 6) Automatic selection range: Resolution 0.1°C(0.1°F)
- 7) Memorization of the latest 20 sets measurements data (Press the "UP" or "Down" arrow keys to check that the latest 20 sets measurement data has been stored.
- 8) Automatic Data Hold & Automatic power off.

4.Other Instructions

Infrared forehead thermometer is a professional thermometer for measuring the human body. It is widely used in families. (Note: The result can not replace the doctor's diagnosis)

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5.Precautions Before Use

POST

Aim at the target and press the measurement switch, the LCD will display all the data and words of the self-test, and the self-test screen appears, as shown in Figure 1, this screen is displayed for about 1 second.



Figure 1

After the self-test, you will hear a beep, indicating that the power-on self-test has been completed. At the same time, the temperature of the measured target is displayed on the LCD.

6.Product Configuration

Products are mainly composed of infrared sensors, LCD displays, buttons, housings, handle, battery and circuit board.

- ①. IR Sensor
- ②. LCD Display
- ③. Backlight on (off)
- ④. Up Button (View historical data)
- ⑤. Down Button (View historical data)
- ⑥. Sound Switch
- ⑦. Measuring Switch
- ⑧. Battery Cover
- ⑨. Handle



CERTIFICATR OF QUALITY

NAME:MEDICAL INFRARED THERMOMETER
PROUCT MODEL:LY168
MANUFCTURER:GUIZHOU MEDICAL
INSTRUMENTS CO.,LTD

This product meets the technical requirements after inspection, and the product is qualified.

7.LCD Display Description

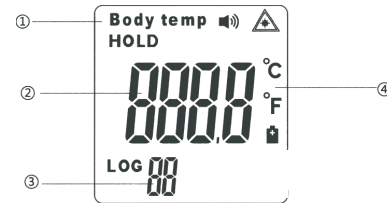


Figure 2

- ① Measuring pattern
- ② Display value
- ③ Storage location
- ④ Temperature unit °C(Celsius) / °F (Fahrenheit)

8.Product Scope of Application and Contraindications

1.Product Scope

The body temperature of the subject is displayed by measuring the heat radiation from the forehead.

2.Product Contraindications

- 1)Conditions such as birth defects, congenital malformations, septic shock, and circulatory failure that may seriously affect frontal temperature measurement.
- 2)Suffering from mental disorders.
- 3)Suffering from serious heart, liver and kidney diseases.

9. Technical Specifications

1. Basic Parameters

Display Resolution	0.1°C (0.1°F)
Storage Temperature	-20.0°C to 55.0°C (-4.0°F to 131.0°F)
Operating Temperature	5.0°C to 40.5°C (41.0°F to 104.9°F)
Optimum Temperature	25.0°C (77.0°F)
Humidity Rate	≤85%
Power	DC 3V (2 x AAA battery)
Size	160*90*45mm /6.3*3.5*1.7in (L*W*H)
Weight	100g
Production Date	see product certificate for details

2. Measuring Range

Human Body Measurement	32.0 to 42.9°C (90.0 to 108.0°F)
Measuring Distance	5cm ~15cm (2 in~5.9 in)
Automatic Stop	about 10 seconds

3. Measurement Accuracy

32.0 to 35.9°C (93.2 to 96.6°F)	±0.3°C (0.5°F)
36.0 to 39.0°C (96.8 to 102.2°F)	±0.2°C (0.4°F)
39.0 to 43.0°C (102.2 to 109.4°F)	±0.3°C (0.5°F)






4. Use Period

2 years

5. Software Version

V1.0

15. Description of Symbols

Symbol graphics	Meaning	Symbol graphics	Meaning
	Note the attached file		Reference instructions
	Low voltage alert		Type-B equipment
	Cannot be discarded		

16. Accessories List

1 *Thermometer, 1*User Manual, 1*Certificate

Name and Content of Hazardous Substances in Products

Part name	Toxic and Hazardous Substances and Elements					
	(Pb)	(Hg)	(Cd)	(Cr(VI))	(PBB)	(PBDE)
PCB board (including LCD)	X	○	○	○	○	○
Battery	X	○	○	○	○	○
Housing	○	○	○	○	○	○
Package material	○	○	○	○	○	○
<p>This form is prepared in accordance with SJ / T 11364-2014</p> <p>○ : It means that the content of this hazardous substance in all the material materials of the parts is below the limit requirement specified in GB / T 26572.</p> <p>× : It means that the content of the harmful substance in at least one homogeneous material of this part exceeds the limit requirement specified in GB / T 26572.</p>						

The "Hazardous Substances" shown in this form will not cause any harm to people and the environment under normal use of the product.

The "Hazardous Substances" shown in this form and their presence part provide consumers and recycling operators with information about the existence of the relevant substances, which helps to properly dispose of products when they are discarded.

2.Product Maintenance

If you encounter the following problems during use, please follow the instructions in the maintenance instructions to find the solution. If the problem still persists, please contact our customer service.

1) LCD cannot display the value

In the human body mode, LCD will not display any data when the temperature lower than 32 ℃ , LCD display message "Lo"

2) LCD display message "Higher than 42.5 ℃"

When using non-contact electronic thermometer, LCD display message higher than 42.5 ℃ , the buzzer will beeps continuously, it means that it has exceeded the measurement range or temperature in the human body temperature measurement mode is higher than 42.5 ℃ .

3) LCD display message "Lo"

When using the non-contact electronic thermometer, LCD display message "Lo", it means that lower than the measurement range or measurement temperature in the human temperature measurement mode is below 32 ℃ . It appears display message "Lo" or Higher than 42.5 ℃ , has the following situations for reference:

Reason for the message "Lo" or "Higher than 42.5℃"	Solutions
Temperature reading hampered by hair, perspiration	Make sure that there is no obstruction prior to taking a temperature.
Temperature is affected by air flux.	Make sure there is no air flux as this could interface with the infrared system.
The measurement distance is too far	Please respect the measuring distance (between 5 to 15 cm ~2 to 5.9 in) .
From high/ low temperature condition to room temperature	Waiting for 20 minutes before taking the body temperature

14.Waste Treatment Instructions

- Disposing electronic products and batteries directly in the trash can cause harm to the environment. Please disposal them according to local legislation.
- Do not discard the disfunction non-contact infrared forehead thermometer in trash can, please dispose it following the laws of your area, or contact the manufacturer for recycling.

6.Environmental Requirements for Work Storage and Transportation

1) Working Environment:

- Ambient temperature: 5 ℃ to 40 ℃ (41°F to 104°F);
- The optimal temperature is 25 ℃ (77°F);
- Humidity rate: ≤85%;
- Atmospheric pressure: 86kPa ~ 106kPa
Power supply: DC 3V (2 x AAA battery)

2) Storage and Transportation Environment:

- Ambient temperature: -20 ℃ to 55 ℃ (-4°F to 131°F) ;
- Humidity rate: 10% ~ 85%;
- Non-corrosive gas, well-ventilated room.
- The transportation requirements are as stipulated in the order contract, but must be prevented strong shock, vibration, and rain and snow splashing during the transportation process.

10.Operating Instructions

1.Battery Instructions

There is an oval on the bottom of the handle with an arrow pointing up.
Push the battery cover slightly forward and install the battery to work.

■ Precautions for Battery Installation and Replacement

- 1) After the battery cover is opened, place the battery in the direction of the positive and negative electrodes at the place where the battery is installed.
Place the negative electrode in the correct direction;
- 2) Wait for 10 minutes to warm up for the first time or after inserting a new battery.
- 3) When in low battery, the symbol will appear on the display, prompting to replace the new battery, open Battery cover (see product structure®) Pay attention to the positive and negative polarity when replacing the new battery. Improper placement may cause damage to the product.
- 4) When not in use for a long time, please remove the battery to extend the service life and prevent damage to the thermometer caused by battery leakage.

2.Temperature Measurement Steps

1) Align the forehead thermometer to the center of the forehead (above the center of the eyebrow) and keep it vertical, about 3-5cm away, pressing the measurement switch immediately displays the temperature.

2) When the measurement switch is pressed (see product structure ⑦), the current temperature value is displayed on the current display, and the measurement data can be automatically stored (press the " up" and " down" arrow keys to check the latest 20 sets measurement data stored)

Note:

1) Before measuring, make sure that there is without hair, perspiration, makeup or cap covered

2) It may affect the accuracy of measurements when the forehead is covered by perspiration or other factors, please take the temperature behind the ear lobe. Meanwhile, make sure that there is without hair, perspiration, makeup or cap covered.

3) The thermometer has not been used for a long time. The first time the meter is turned on for environmental temperature detection, the startup time is extended by 1 to 2 seconds.

4) The temperature of the human body varies throughout the day. It can also be influenced by numerous external factors: age, sex, type and thickness of skin...

11.Body Temperature Reference Value

1. Normal Body Temperatures According to Measurement Position

The human body is a very complex biological comprehensive system. Body temperature is an important data of whether human life activities are normal. Usually, we detect ourselves by measuring the temperature of the forehead, cochlea, anus, mouth and armpit. Health status, body temperature measured in different parts will be different, the specific differences refer to the following table:

Measurement Position	Normal Temp (°C)	Normal Temp (°F)
Rectal	36.6 to 38	97.8 to 100.4
Oral	35.5 to 37.5	95.9 to 99.5
Axillary	34.7 to 37.3	94.4 to 99.1
Ear	35.8 to 38	96.4 to 100.4
Forehead	36 to 37.2	97.4 to 98.4

2.Normal Body Temperatures According to Age

The temperature of the human body varies throughout the day. It can also be influenced by numerous external factors: age, sex, type and thickness of skin...

Age	Normal Temp (°C)	Normal Temp (°F)
0 to 2 years	36.4 to 38	97.5 to 100.4
3 to 10 years	36.1 to 37.8	97.0 to 100.0
11 to 65 years	35.9 to 37.6	96.6 to 99.7
>65 years	35.8 to 37.5	96.4 to 99.5

Note:

Women's body temperature is different from men's, generally about 0.3℃ higher than men's, body temperature during ovulation will be 0.3℃ to 0.5℃ higher than normal.

12.Advice

- The protective glass over the lens is the most important and fragile part of the tachometer, please take great care of it.
- Do not charge non-rechargeable batteries, do not throw in fire.
- Do not expose the thermometer to sunlight or the water.

13.Maintenance and Cleaning

1.Product Care and Cleaning

- 1) The Infrared Sensor is the most precise part, must be protected carefully.
- 2) Do not clean the device with corrosive detergent.
- 3) Store the device in a dry environment, and keep it away from dust and direct sunlight.
- 4) Please clean the medical infrared thermometer regularly, usually once a month. If necessary, you can perform appropriate cleaning according to the actual soiling of the product. Use a dry soft cloth to clean the medical infrared thermometer. If the instrument is extremely dirty, you can use a cloth moistened with water or neutral detergent to fully dry it, then wipe the thermometer, and finally wipe it with a dry cloth.