

# 尺寸: 52\*88mm

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## USER MANUAL

infrared thermometer

Model No. : GP-300

Office/Production Address:No.434,Post Street,  
Nangang District,Harbin,Heilongjiang  
Technical Requirements for Products:HLZ No.20202070039

Thanks for purchasing our non-contact infrared thermometer.  
This product is a non-contact remote infrared electronic thermometer that professionally measures the temperature of the human body. It is easy to use, not only has the display backlight reading function, but also has mode selection, memory reading, time display, automatic shutdown and other functions. The normal temperature under the armpit is on average 36-37 degrees, the oral cavity temperature is 0.2-0.4 degrees higher, the rectal and anal temperature is 0.2-0.5 degrees higher than the oral cavity, and the human body temperature is relatively stable. The body temperature of normal people fluctuates slightly within 24 hours. The difference is not more than 1 degree. Under physiological conditions, breakfast is slightly lower, afternoon is slightly higher, exercise, eating, woman's temperature before menstruation or pregnancy is slightly higher, and the elderly body temperature is higher, the body temperature is higher than normal temperature is called fever, 37.5-38 The degree is low fever, 38-39 is moderate fever, 39-40 degrees is high fever (high fever), and above 40 degrees is super high fever. (Reminder) The temperature of the forehead is lower than the temperature of the armpit (0.2-0.5 °C). The temperature measured by this infrared thermometer should be increased (0.2-0.5 °C). Since the temperature of an infant's skin varies with surrounding temperature to some extent, please don't take the temperature of a baby when she is get feeding or soon after that.  
Be sure to read the instruction manual before using this product and retain it well for future reference.

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## Operation Instructions

### 1. Safety instructions and precautions

- Working environment: (16-35) °C; relative humidity is RH≤85%, no condensation; the air pressure is within the range of (70-106) kPa.
- Storage environment: (-25-55) °C; relative humidity is not more than 90%RH, no condensation; the air pressure is within the range (70-106) kPa.
- This product does not suit for monitoring application.
- This product is not waterproof, so do not dip it into water or other liquid. When cleaning it, dampen slightly a cotton swab with alcohol to rub display, the probe as well as the shell, and then dry it with another clean cotton swab instead of any detergent. Keep this thermometer far from sunshine, where it is dry and dust free, with the temperature within the range of (16-35) °C (60.8-95)°F. In the case that the probe or the thermometer itself seems to be damaged, discard it. Don't try to repair the apparatus if it is ruined. Just contact the closest service center.
- This product consists of high precision parts. Do Not drop it to the floor! Keep it safe from strong impact and shock.
- Do not twist the thermometer and probe!
- If the part of your body suffers with inflammation, injury or recovers soon after a surgery. Do not use the product on it.

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## Warning

- Be sure to place this infrared thermometer far from children's reach.
- Using the infrared thermometer doesn't take the place of doctor's help. Once the measurement readings are higher than 37.5 °C (99.5 °F), it is suggested you should go to see a doctor
- This infrared thermometer is no waterproof! NEVER place it into any liquid.
- Remove the batteries in the case that the product will not be used for a prolonged period of time

## Features

### 2.1 Multiple purposes

This non-contact infrared thermometer can be applied to the forehead. The forehead temperature range is from 32 °C through 42.9 °C (89.6-109.2 °F).

### 2.2 Portable for easy handling

- Distinctive ergonomic design make it easy to use.
- It imposes no negative effect on your daily life if you use it to take the forehead temperature of your sleeping baby.
- For children, this product is more comfortable than anal thermometer, easier than mouth thermometer, and more flexible than those mono-mode infrared thermometer.

### 2.3 Safe and healthy

- There is no risk of broken glass or swallowing mercury inside the traditional thermometer.
- It absolutely secure to be used on children.

### 2.4 Access to multiple memory values

User can enable the Memory mode to access to multiple memory values, so as to track the temperature changes effectively.

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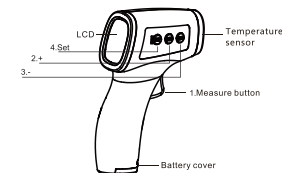
## 3. Major parts of the product

This product consists of shell, temperature sensor, control circuit, LCD display, (optional LED backlight) and buzzer.

## 4. Basic principle behind product

In nature any object of which the temperature is higher than the absolute 0 degree (-273 °C) will radiate infrared ray, and the energy of the infrared ray will increase as the temperature rises. Based on such correlation, people can calculate the temperature value of an object as the intensity of infrared ray from it has been accurately measured

## 5. Product structure descriptions.



1. Press the key of "Measure button" to test the temperature.
2. Press "+" or "-" to call up 32 groups of temperature memory values.
3. Press the "set" key to switch the body temperature and surface temperature.
4. Long press the "set" key for 6 seconds to switch between Celsius and Fahrenheit.

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## 6. Technical parameters.

Temperature range	(32-42.9) °C/(89.6-109.2) °F.
Measuring distance	3-5cm
Measuring time	1s
Measurement accuracy:	within(35-42)°C ± 0.2°C/0.4°F
Memory	Memorize 32 measured values
Power supply	DC 3v (two AAA alkaline batteries)
Working environment	16°C-35°C (60.8°F-95°F) RH≤85%
Storage environment	-25°C-55°C(-13°F-131°F) RH≤90%
Product size	149mm*95mm*43mm
Product weight:	106g±3g
Accessories	Instruction Manual x 1

\*Specs above may vary slightly with models.

## 7. Icon Descriptions

Definition	Icon	Status	Description
Power level		With display	Normal battery
		Icon flashes	Replacement battery
Sound		With display	Buzzer is on with sound
		Without display	Buzzer is off
Temperature unit		°C	Celsius
		°F	Fahrenheit
Readings		0000	Indicating measured results

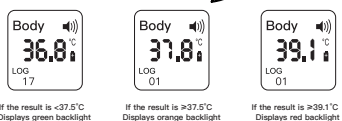
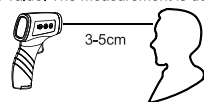
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## 8. Operations

### 8.1 Measure body/surface temperature

- ▶ Press the Measure button to turn on, with all icon on the screen. The display will ring "tick", tick before initialization, then it is ready;
- ▶ Make sure the working mode of the device is Body temperature mode instead of surface temperature mode, press Setting button to change surface or body;
- ▶ Point the thermometer to the center of human forehead in straight angle at a distance of 3-5 cm. In about half a second user may hear the sound "tick" and see the temperature value. The measurement is done.



- ⚠ Tips**
- Before or after using the device, be sure to keep the sensor and probe clean;
  - Use the thermometer in an environment with constant temperature. In the case that the ambient temperature changes apparently (from inside room to the outside), place it for about half an hour before starting measurement;
  - Do not use the device to measure the body temperature soon after exposing it to extreme high or low temperature. Start measurement about 10 minutes.
  - In the case that the object under test comes from where the temperature is quite different from that of the surroundings where the measurement will be undertaken, let it stay in the current environment for at least half an hour before the measurement.

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E. Try to avoid using the unit on the forehead that is sweating, wet, covered with cosmetics and facing towards a fan. Don't take temperatures within 30 minutes after sports, bath or meal.

### 8.2 Measure surface temperature

- ▶ Press the Measure button to enable the device and get ready for measurement.
- ▶ Make sure the working mode displayed on upper screen is Surface temperature mode instead of Body temperature mode, press Setting button to change surface or body.
- ▶ Point the thermometer straight to the object under test at a distance of 3-5 cm. Press the Measure button, and in about half a second you will hear the sound "tick" with the reading displayed and the measurement is finished.

### ⚠ Tips

- The temperature here refers to only the surface temperature of the surface under test, not its core temperature;
- The infrared ray radiation rate of different materials varies, which may affect the measurement results. The defaulted radiation rate of this device is 0.95. For example, the measured temperature of stainless steel may be much lower than the actual temperature. Therefore, take care to prevent from getting burned in such case.

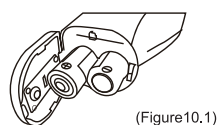
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### ⚠ Tips

When the ambient temperature is lower than 15 °C or higher than 40 °C, measurement is not allowed, "LO" or "HI" are displayed and shut down.

## 9. Replace batteries

- ▶ Open the cover of battery compartment and take remove the wasted batteries;
- ▶ Replace two brand-new AAA batteries, paying attention to the Polarity direction (as shown in Figure 10.1);
- ▶ Close the cover of battery compartment. Once you hear "tick", "tick", sound, the batteries have been replaced correctly. If no "tick" sound is heard, check the polarity directions of your batteries.



(Figure 10.1)

### ⚠ Tips

- If the unit will stay idle for a prolonged period of time, remove the to prevent leakage. It is forbidden to throw wasted batteries into fire.
- Propose the wasted batteries following the local regulation and laws concerning the environment protection to avoid any environmental pollution.

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## 10. Maintenance and precautions

- ▶ Keep the sensor as well as the inner cavity, otherwise the measurement accuracy may be affected.
- Cleaning method
  - Clean the Surface: Use a clean soft cloth or cotton swab dipped with a bit of medical alcohol or water to rub the dirty spots.
  - The sensor and the inner cavity: Use a clean soft cloth or cotton swab dipped with a bit of medical alcohol to rub the cavity and the sensor top. Don't use the product until the sensor is completely dry.

### ⚠ Tips

- Since the product is used repeatedly, be sure to clean it each time after use;
- ▶ Prior to using the product, read thoroughly the Instruction Manual, and make sure the batteries have been properly installed
  - ▶ It is forbidden to place the thermometer into any liquid or use it in extra-high or low temperature environment for a long time;
  - ▶ Do Not impact, drop the unit or place it together with sharp articles. Do Not disassemble it on your part.
  - ▶ Do Not use the unit in surrounding with strong electronic and magnetic interference;
  - ▶ Keep the thermometer that far from little children's reach;
  - ▶ It is suggested that user practise using unit enough times in order to master the usage. Avoid modifying the defaulted settings at the factory;
  - ▶ The measurement results can not take place of medical diagnosis;
- During use no special maintenance is necessary. In the case certain failure occurs, contact the dealer or manufacturer.

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## 11. Troubleshooting

Troubles	Possible solutions
The display indicates "Lo" or "Hi"	<ol style="list-style-type: none"> <li>1. check the target you are going to measure in the case he is facing a fan, sweating, wet from rain or making up with cosmetics, the accuracy can not be ensured</li> <li>2. check the temperature offsets settings, the factory defaults is 0.0 °C/°F</li> <li>3. check the working environment, the environment change imposes great impacts on the measured results. If the change varies too much, or the device has just been used to measure objects of extra-high or low temperature, large deviation may occur. Measurement should be performed in a relatively stable and constant environment where the device stays for a least half an hour.</li> <li>4. Check the measuring distance(3-5cm)</li> </ol>
Buttons failure	<ol style="list-style-type: none"> <li>1. Re-install the batteries</li> <li>2. Check whether the device in setting menu</li> </ol>
No display or abnormal display	Re-install the batteries
No operating sound	Check whether the operating sound is turned off
Shutdown soon after turned on	Re-install the batteries

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# Infrared Thermometer

User Instruction Manual



- Imported sensors
- Multiple purposes
- No laser harm
- Memory function

\* Read the Instruction Manual carefully before using.  
\* Retain the Instruction Manual at hand for readily reference.