

Instruction Manual

Model: AGT101



Thank you for purchasing our infrared forehead thermometer!

- Before using this product, please read the instructions carefully and use it correctly.
- Please keep the instruction manual properly after reading for easy reference.
- A warranty card is attached to this manual. Please keep it properly and do not lose it.

Safety Precautions

- The infrared forehead thermometer measures temperature by detecting infrared energy radiated from a person's forehead or other objects. It collects energy and converts it into a temperature value. It obtains the maximum accuracy value by detecting the human temperature reading obtained from the area above the human eyebrow.
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- This product is only suitable for the purpose described in this user manual. The manufacturer is not liable for damage caused by incorrect use.
- The life of this product is 5 years.
- Please using it under appropriate environmental conditions.
- Do not install the wrong positive and negative batteries. When the battery is exhausted, please replace it with a new one. Remove the battery when it is not used for a long time (more than 3 months).
- Do not immerse this equipment in water or other liquids.
- If you think the device is damaged or abnormal, please stop using it.
- Do not open this device without authorization.
- In the early stages of fever, vasoconstriction occurs, and the temperature of the skin surface decreases. At this time, the measured temperature will be abnormally low.

- This device includes sensitive components and must be treated carefully. Please check the product specification section for the description of the storage and operating conditions.
- The product contains small parts. To avoid swallowing, children should use it under adult supervision.
- Please avoid the following conditions: extreme temperature, shock and drop, pollution and dust, direct sunlight, hot and cold environment.
- If not used for a long time (more than 3 months), please remove the battery.

Caution:

Using this device is not a substitute for seeking medical treatment. The device is not waterproof, do not immerse it in liquid.

 The battery box electronic equipment must be disposed of in accordance with local use regulations and not thrown into domestic garbage.

 Please check the manual before using this device.

 Internal power supply type B equipment.

 Caution: Personal injury and damage to items may occur during incorrect use.

The battery box electronic equipment must be disposed of in accordance with local use regulations and not thrown into domestic garbage.
Please check the manual before using this device.
Internal power supply type B equipment.

Battery operation



Please use 2 pieces 1.5v AA batteries, do not use other batteries.
● Failure to do so may cause fire.



In case the electrolyte in the battery accidentally gets into your eyes, please immediately rinse with plenty of water.
● There may be a danger of causing blindness and other injuries. You need to go to the nearest hospital for treatment immediately.



In case the electrolyte in the battery accidentally sticks to the skin and clothes, please immediately rinse with plenty of water.
● Otherwise it will damage the skin.



Don't install the wrong positive and negative poles of the battery. After the battery is exhausted, please replace it with a new one. Please remove the battery when it is not used for a long time (more than 3 months).
● Failure to do so may cause battery leakage, heat generation, cracks, etc., and damage the main body of the thermometer.



Do not mix new and old batteries and different types of batteries.
● Failure to do so may cause battery leakage, heat generation, cracks, etc., and damage the main body of the thermometer.



Dispose of the battery after use in accordance with the relevant environmental protection regulations locally.
● If it is handled as a flammable substance, it may cause fire due to battery explosion, which may cause burns and injuries.



Please use it according to the standard of use and storage humidity temperature described in this manual.
● Otherwise may not be measured correctly

Use of accessories, sensors, and cables outside the specified range may increase the electromagnetic emissions of this device and / or reduce the electromagnetic immunity of this device.

Do not use this device next to or stacked with other devices. Observe this equipment closely to ensure that it functions properly in the configuration used

when necessary.

The EMC of this equipment needs to be specifically guarded, and it needs to be installed and repaired in an environment that meets the following EMC information. This device should be used in the specified electromagnetic environment. Portable mobile devices will affect the operation of the monitor. The customer or user should ensure that the device is used in the electromagnetic environment specified below.

Guidance and manufacturer's statement - Electromagnetic emission			
The Infrared forehead thermometer is expected to be used in the following specified electromagnetic environment, the user should ensure the device is used in this electromagnetic environment:			
Emission Test	Compliance	Electromagnetic Environment - Guide	
GB4824 RF_Emission	1set	Infrared forehead thermometer use RF energy only for its internal function. As a result, its RF emissions are low and will not cause any interference to nearby electronic equipment theoretically.	
GB4824 RF_Emission	B Class	Infrared forehead thermometer is suitable for use in all non-home facilities and the facilities that are not connected to the residential public low - voltage power supply network directly.	
GB17625.1 Harmonic Emission	Not applicable		
GB17625.2 Voltage Fluctuation / Flashing Emission	Not applicable		
Guidance and manufacturer's statement - Electromagnetic immunity			
Infrared forehead thermometer is expected to be used in the following specified electromagnetic environment, the user should ensure the device is used in this electromagnetic environment:			
Immunity Test	IEC 60601 Test Level	Match Level	Electromagnetic Environment - Guide

Electrostatic Discharge (ESD) GB/T 17626.2	±6 kV Contact Discharge ±8 kV Air discharge	±6 kV Contact Discharge ±8 kV Air Discharge	The ground should be wood, concrete or tiles, if the ground is covered with synthetic material, the relative humidity should be at least 30%.
Electrical Fast Transient GB/T 17626.4	±2kV For the Power Cord ±1kV For Input / Output Lines	Not applicable	Not applicable
Electrical Surge GB/T 17626.5	±1 kV Differential Mode Voltage ±2 kV Common Mode Voltage	Not applicable	Not applicable
Voltage sag, short interrupt and change in power input line GB/T 17626.11	<5% U_T , lasts 0.5 Circles (>95% Sag in U_T) 40% U_T , lasts 5 circles (60% Sag in U_T) 70% U_T , lasts 25 Circles (30% Sag in U_T) <5% U_T , lasts 5s (>95% Sag in U_T)	Not applicable	Not applicable
Frequency Magnetic Field (50/60Hz) GB/T 17626.8	3A/m	3A/m	The electromagnetic field should have the frequency characteristics applied in typical commercial or hospital environment.

Note: U_T refers to the AC voltage before applying the test voltage.

Guidance and manufacturer's statement - Electromagnetic immunity

Infrared forehead thermometer is expected to be used in the following specified electromagnetic environment, users should ensure the device is used in this electromagnetic environment:

Immunity Test	IEC 60601 Test Level	Match Level	Electromagnetic Environment - Guide
			Portable and mobile RF communication equipment as well as cables should not be used more closely to any parts of AGS200 / AGS100 medical cold light source for

<p>RF Transmit GB/T 17625.6</p> <p>RF Radiation GB/T 17626.3</p>	<p>3 Vrms 150 kHz to 80 MHz</p> <p>3 V/m 80 MHz to 2,5 GHz</p>	<p>Not applicable</p> <p>3 V/m</p>	<p><i>endoscope</i> than the recommended isolation distance. The distance should be calculated by the formula corresponding to the transmitter frequency.</p> <p>Recommended isolation distance:</p> <p>$d = 1.2\sqrt{P}$</p> <p>$d = 1.2\sqrt{P}$ 80 MHz to 800 MHz $d = 2.3\sqrt{P}$ 800 MHz to 2,5 GHz</p> <p>Where P is the maximum output rated power provided by the transmitter manufacturer in watts and d is the recommended isolation distance in meters.^①</p> <p>The field strength of the fixed RF transmitter is determined by the investigation^② of the electromagnetic field, which should be lower in each frequency range than the coincidence level.</p> <p>Interference may occur near the device marking the following symbols.</p> 
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Note 1: At frequencies of 80 MHz and 800 MHz, the formula in the higher frequency band is used.
Note 2: These guidelines may not be suitable for all situations where electromagnetic transmission is affected by the absorption and reflection of buildings, objects and humans.

- a) Fixed field strength, such as: wireless (cellular / cordless) telephones and terrestrial mobile radio base stations, amateur radio, AM (AM) and FM (FM) radio and television broadcasts, the field strength in theory can not be accurately Predicted. If the field strength of the infrared forehead thermometer is higher than the RF compliance level given above, the device should be observed to verify its normal operation. If abnormal performance is observed, the supplement may be necessary, such as re-positioning or positioning the infrared forehead thermometer.
- b) In the 150KHz ~ 80sMHz the entire frequency range, the field strength should be less than 3 V / m.

Recommended isolation distance between portable and mobile RF communication equipment and endoscopy camera

Infrared forehead thermometer is used in radioactive radiation harassment controlled electromagnetic environments. According to the maximum output power of the communication device, endoscopy camera user can prevent electromagnetic interference by maintaining the minimum distance between the portable and mobile radio communication equipment (transmitter) and the forehead thermometer.

Transmitter maximum rated output power /W	Isolation distance at different frequencies transmitter /m		
	150 kHz ~ 80MHz $d=1.2\sqrt{P}$	80 MHz ~ 800MHz $d=1.2\sqrt{P}$	800 MHz ~ 2.5GHz $d=2.3\sqrt{P}$
0.01	Not applicable	0.12	0.23
0.1	Not applicable	0.38	0.73
1	Not applicable	1.2	2.3
10	Not applicable	3.8	7.3
100	Not applicable	12	23

For the maximum rated output power of the transmitter not listed in the table above, the recommended isolation distance d , in meters (m), can be determined using the formula in the corresponding transmitter frequency bar, where P is transmitter maximum output rated power provided by the transmitter manufacturer in watts (W).

Note 1: At frequencies of 80 MHz and 800 MHz, the formula in the higher frequency range is used.

Note 2: These guidelines may not be suitable for all situations where electromagnetic transmission is affected by the absorption and reflection of buildings, objects and humans.

I. Product introduction

This infrared forehead thermometer is a high-quality product, which uses infrared technology and performs a self-test every time when it turn on, to ensure the accuracy of the measurement. It is mainly designed for the measurement of human forehead temperature. It can accurately and stably

perform temperature measurement. In order to ensure the accuracy of the measurement and the safety of use, please read the instructions carefully before operating.

1.1 Specification

The temperature range of the Body Mode is 32.0-43.0 °C, it can record the previous dates, During the measurement, if a short beep fever alarm appears continuously, it means that the exact temperature measured is higher than the fever alarm setting, and it means he/she may have a fever.

1.2 Usage instruction

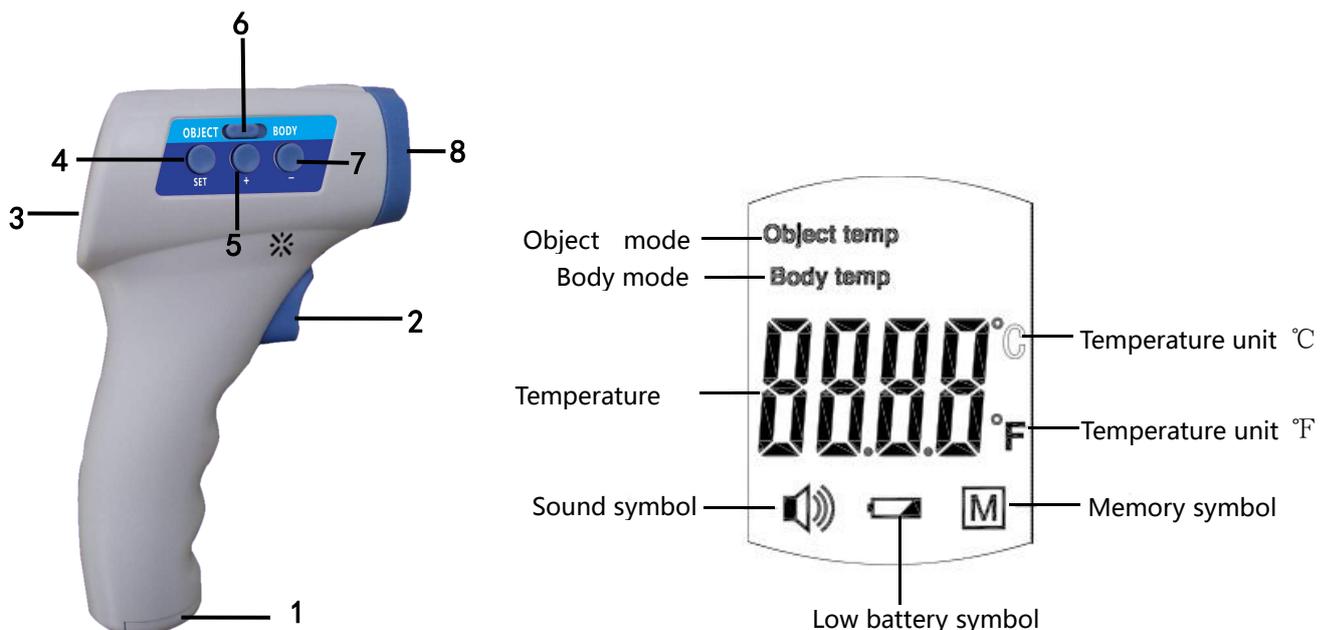
This product uses infrared technology. The sensor head is aligned with the measurement target within about 3cm after turning on it. Measurement can be completed in seconds, the measurement process does not need to touch the measured object, the measurement is completed after pressing the switch.

1.3 The main purpose and scope of application

The main purpose: to measure the temperature of human beings.

The scope of application: the body temperature of the people who is measured is displayed by measuring the heat radiation from the forehead.

1.4 The structure composition



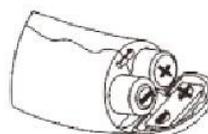
1. Battery cover: replace the battery
2. Switch : turn on the device
3. Display: display information
- 4 .Setting: enter setting mode
5. + : feature selection
6. Mode : select temperature mode
7. - : Feature Selection
- 8.Probe: temperature measurement

Measuring range	Temperature range of the body mode: 32.0~43.0°C
Precision	0.1°C
Accuracy	Body :35.0~42.0°C±0.2°C Object: ±0.3°C ;
Beep	Ready for measurement: Twice short BI
	Measurement completed with normal temperature range : One short BI
	Reached alert after measurement: one long BI twice short BI
	Automatic turn off: one short BI
Operating environment	Body mode: 10~40°C
	Relative humidity ≤ 85%
Storage environment	-20°C ~ +55°C
	Relative humidity 10%~80%
Automatic turn off	Automatic turn off after no operation for about 30 seconds
Battery	Two pieces AA battery
size	95*45*155mm
Weight	about 100 grams (without battery)

II . Product installation, debugging and use

2.1 Install the battery

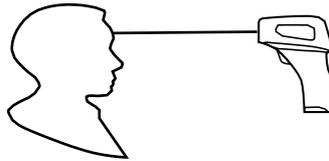
This device comes with two AA batteries. When the symbol  is displayed on the screen, you need to replace the battery, slide the battery cover as shown below to replace the battery.



 Batteries and electronic equipment must be disposed of in accordance with applicable local regulations, and must not be thrown into household waste.

2.2 Forehead temperature measurement:

Press the switch to turn on the device, pull the mode switch to the Body Mode, point the temperature measuring head at the forehead of the human body, keep it within 30mm , and press the switch to take the temperature measurement.



III. Product setup

When it is necessary to set the function, press the switch to turn on and press the set button.

Enter the setting mode, press the “+ “or” - “key to select settings, then press the setting key to confirm and enter the next function setting, continuously press the setting key to save settings and exit.

Status display	Setting mode	Setup instructions
F-1	°C/°F conversion	Choose the temperature unit
F-2	Prompt tone switch setting	Display "OPEN" shows open the prompt tone Display "CLOSE" shows close the prompt tone
F-3	Setting of temperature alarm point	Press the +/- key to set from temperature 37.0°C to 42.0°C
F-4	Temperature offset setting	Press the +/- key to increase the temperature from -3.0°C to 3.0°C (for body mode only)

IV. Product troubleshooting

Fault display	Description of phenomena and troubleshooting
	<p>Excessive temperature measurement: when the temperature measured in body mode is higher than 43.0°C, "H" is displayed on the display screen. Please contact the seller when the real temperature is not over 43.0°C and the measuring method is correct. Do not disassemble by yourself.</p>
	<p>Measuring temperature too low: when the temperature measured in body mode is lower than 32.0°C, "L" is displayed on the screen. If the real temperature is not lower than 32.0°C and the measurement method is correct, please contact the seller in time, do not disassemble by yourself!</p>
	<p>Excessive temperature measurement: when the temperature measured in the object mode is higher than 100°C, "H" is displayed on the display screen.</p>
	<p>Measurement temperature is too low: when the measured temperature is below 0°C in object mode, "L" is displayed on the display screen.</p>
	<p>Low battery indication: if the screen only shows "🔋" and flashes, replace the battery immediately.</p>
	<p>Ambient temperature exceeds: when the ambient temperature exceeds the range of its using ambient temperature, please put it back to the required temperature for 1 hour before measuring, do not disassemble by yourself!</p>

V. Product maintenance method

Note: please do not throw away the packing materials, please deal with them according to local regulations.

-- keep the surface of infrared forehead thermometer clean and tidy, which is helpful to extend the service life of it.

-- if the device is dirty, please wipe it with dry soft cotton cloth. If it is not easy to clean, can wipe the soft cotton cloth with water or neuter scour, then dry it with a dry cloth.

※ Do not let water into the body and other liquids.

VI. Notes for product storage



Note:

-- The people being measured and infrared thermometer should be kept in similar indoor conditions for at least 30 minutes.

-- Do not use this infrared thermometer in an environment that does not conform to temperature and humidity.

-- Before and during the temperature measurement, the The people being measured should not drink, eat or do exercise.

-- Always keep the infrared thermometer in the same position, because different positions may cause temperature reading deviation.

--Doctors recommend rectal measurements for newborns within six months, because other measurements are inaccurate. If these infants are measured using an infrared forehead thermometer, we still recommend rectal temperature measurements for verification.

--Infrared forehead thermometer contains sensitive electronic components, which should be avoided in the environment with electromagnetic interference (such as mobile phone, microwave oven, etc.) to avoid temporary impact on its accuracy.

-- Do not wipe the device with volatile oil, diluent or gasoline.

-- Do not store the product in the place of direct sunlight, high temperature, humidity, dust or corrosive gas.

-- When the infrared forehead thermometer is not used for a long time (more than 3 months), please takeout the battery.

--Please do not use the infrared forehead thermometer for purposes other than its original design. Please follow general safety precautions when using it on children.

--If the probe head or the infrared thermometer itself shows signs of damage, do not continue to use it.

--Please do not let the infrared forehead thermometer fall to the ground, to avoid strong impact and shock.

-- To avoid short circuit, please do not put metal items such as battery case, coins or key strings together in the same pocket or other containers that may short-circuit the battery.

-- Do not put the battery near the fire source or into the fire to avoid battery explosion.Do not use the battery when it is leaking or moldy.Discard the battery or the product in accordance with local laws and regulations.

※ If you fail to comply with the above precautions and other proper use methods, which leads to the damage of the device, our company will not provide free warranty service.

VII. Product transportation and storage

Product transportation and storage environment:

Temperature: - 20 ~ + 55 °C

Relative humidity: 10%~80%

Atmospheric pressure: 70-106kpa

Notes for transportation and storage: handle with care, do not squeeze by gravity, p prevent from the insects and mice.

VIII. Product unpacking and inspection

Product unpacking: please open the color box package along the nail button of the box to avoid disassemble the box.

Inspection after the product is unpacked: please note that the packaging box of this product is equipped with 2 AA batteries + a instruction manual (including warranty card) + a certificate of quality, which shall be counted when unpacked it.

IX. Product warranty

1. We will provide two years free warranty from the date of purchase.
2. Our company does not provide free warranty service for the following faults caused by users, as follows:
 - 1) Failure caused by unauthorized disassembly or modification of the product;
 - 2) Internal fault caused by accidental fall in the process of taking or using;
 - 3) Failure caused by improper use or lack of proper maintenance;
 - 4) Failure to operate according to the correct knowledge in the operation manual;
 - 5) Failure caused by natural disasters, such as flooding and fire;
 - 6) Failure caused by improper repair by a repair shop not authorized by the company.
3. You must present a valid warranty card and proof of purchase when you request free service.
4. When warranty service is required, please bring the product to the point of sale for repair.
5. Repair service beyond the warranty will be charged according to the regulations.
6. When the machine and battery are scrapped, please comply with local regulations.

<p>Warranty card</p> <p>Product name: _____</p> <p>Serial no.: _____</p> <p>Supplier: _____</p> <p>Date of sale: _____</p> <p style="text-align: right;">Stamp:</p> <p style="text-align: right;">Date:</p>
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