

PREFACE

Dear User

Before using this Infrared thermometer please read the user's manual carefully and use it accordingly. Please keep the user's manual property for reference at any time. (The pictures in this manual are for reference only)

> version number: V1.0 The latest revision date: 04-2020 ENSMIRT4202008055 20042110 000/3 09 12 0033

1 Product Introduction

Intended use

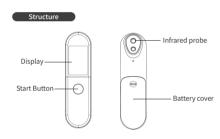
The Infrared thermometer we produced is specially for measuring body temperature, it can measure forehead temperature, it suitable for medical unit and home use.

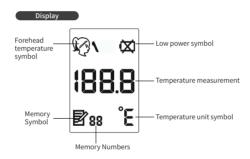
Contraindications

Otitis externa, otitis media

Features

- 1) 1 second measure the temperature, easily and fast.
- 2) Sensor measurement technology, high precision.
 3) Automatically power-off, if left idle for 60 seconds.
- 4) One-key measurement, easy to use.
- 5) Alarm for fever, better to know your physical condition
- 6) Stores 32 sets recent measurement data, easy for your data contrast.
- 7) Safety by infrared measuring , avoid the damage of the measuring by traditional mercury thermometer.





2 Battery Installation Usage

- 1) Remove the battery cover as the arrow direction according.
- 2) Inset 2 AAA powerful batteries, ensure each battery is in the proper direction.
- 3) Close the battery cover.

3 Measurement

The infrared thermometer can measure the forehead temperature.

Measuring Steps

Step 1: Place the probe between the eyebrows on the forehead, about 5 cm away (do not touch the forehead directly).

Step 2: Gently press the start button, about one second later, the Infrared Thermometer sound prompt, display the measurement

If there is no forehead in front, the temperature shows "--"

Step 3:If there is no operation in 6 seconds, the standby state will be entered. The last measurement result is saved automatically.

In the power-on state, long press the start button to enter the memory mode. In memory mode, press the button to view 1-32 groups of memories

Delete the memory value

When viewing the memory, long press the start button for 2 seconds to clear all memory and display "CLR".

°C/°F Switch

Unit switch: In the shutdown state, long press the start button, after full display °C/°F will switch, and then you release it.



Fever Prompt Function

The Infrared thermometer has fever prompt function. When body temperature is over 38.0 °C during measurement, the Infrared thermometer will give out a "beep—beep" beep" sound in order to remind the person who is under test that he/she gets a fever. At the same time, backlight of 3 different colors will indicate the state of temperature: normal, on the high side or fever. Green backlight: Below 37.5 °C, indicating temperature is normal;

Yellow backlight: Between 37.6~38.0°C, indicating temperature is on the high side (should pay attention to the temperature); Red backlight: over 38.1°C, indicating fever(should see a doctor as soon as possible).

Symbols and Definitions

Symbols	Definitions	Symbols	Definitions
☀	BF type applied part	SN	Serial number
③	Refer to operation manual	(h)	Standby
\triangle	Cautions, please refer to attached documents	X	Separate collection
IP22	Level of protecting against liquid inlet	**	Keep dry
***	Manufacturer	淡	Keep away from sunlight
w	Date of manufacture		Humidity range
EC REP	European union representative	arc Varoc	Temperature range
C € ₀₁₂₃	Product certification		

Common Malfunction and Solutions

Phenomenons	Possible Reasons	Solutions
Flicker Power deficiency		Replace battery immediately
	The Infrared thermometer is power off automatically.	Restart by pressing the power key
	Battery isn't installed properly	Check the battery board
Blank screen	Battery has no power	Replace battery immediately
	Screen is still blank	Contact distributor and send back the product for repairation
Lo	TEMP is too low	
	Environment TEMP is too low	Measurement in proper environment
Hi	TEMP is too high	
	Environment TEMP is too high	Measurement in proper environment

Notes

Note for Forehead Temperature Measurement

- Please measure at the same point when doing forehead temperature measurement, otherwise the temperature value will have difference.
- In order to ensure the measurement accuracy, there should no hair, sweat, cosmetics and dirt, etc on the forehead when measurement,
- Cold coverage, sweating, and other cooling measures on fever patient's forehead will make the measurement result lower Users should avoid measurements in this case

Others

- Please keep the sensor and probe clean before and after measurement:
- Best work environment temperature is between 16°C~35°C.
- $\bullet \ \, \text{Don't use the Infrared thermometer in extreme environment, namely temperature is below 16°C or over 35°C, humidity is over 85\%RH.}$
- When the people being measured comes from a place where the temperature has a big difference from the test environment,

he/she should stay in the test environment for at least 5 minutes in order to keep balance of the body temperature. Otherwise,

the measurement result will be influenced.

- $\bullet \ \ \text{If the product is taken from a place where the temperature has a big difference from the test environment,}$ then the product should be placed in the test environment for 20 minutes before measurement
- Please keep the surrounding environment stable. Don't measure in the fan, air conditioning vent airflow circle.
- $\bullet\,$ Please avoid using the thermometer under direct sunlight, even outdoor.
- Measurement time interval in 20s
- Advise to measure few minutes later after waking up.
- Do not measure after swimming or bathing or other reasons not yet completely dry.
- Please do not measure temperature after exercising, bathing or meal within 30 minutes,
- Before measuring body temperature, do not make any diet, and do not engage in sports activities.
- Do not measure baby temperature during or after breast-feeding.
- The thermometer can take away from the temperature measurement sites, only after the end of the voice prompts to hear the temperature.

Recommendations made three measurements in the following three cases, then take the higher value as the measurement results.

 $1) Children\ under\ three\ with\ weakened\ immune\ systems\ (in\ particular,\ to\ judge\ by\ children\ or\ without\ fever\ thermometer);$ 2)Not yet fully familiar with the use of a thermometer, so each measured temperature value may not be the same; 3) When suspect the measurement value is low.

Manufacturer's Declaration of the EUT

e and manufacturer's declaration – electromagnetic emission – for all EQUIPMENT AND SYSTEMS

1	Guidance and manufacturer´s declaration – electromagnetic emission		
2	The infrared thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of infrared thermometer should assure that it is used in such an environment.		
3	Emissions test	Compliance	Electromagnetic environment - guidance
4	RF emissions CISPR 11	Group 1	The Infrared thermometer uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
5	RF emissions CISPR 11	Class B	
6	Harmonic emissions IEC 61000-3-2	Class A	The Infrared thermometer is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
7	Voltage fluctuations /flicker emissionsIEC 61000-3-3	Complies	urat suppries ourituings used for domestic purposes.

Cuidance and manufacturar's declaration electromagnetic immunity, for all EQUIDMENT and SYSTEMS

Guidance and manufacturer's declaration – electromagnetic immunity				
The infrared thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the infrared thermometer should assure that it is used in such an environment.				
Immunity test	EN 60601 test leve	Compliance level	Electromagnetic environment -guidance	
Electrostatic discharge (ESD) IEC 61000-4-2	± 8kV contact ± 15 kV air	± 8 kV contact ± 15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %	
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic o a typical location in a typical commercial or hospital environment.	

Guidance and manufacturer's declaration - electromagnetic immunity - for FOLIPMENT and SYSTEM that are not LIFE-SUPPORTING

	Guida	ince and manufacti	urer's declaration – electromagnetic immunity
	nometer is intended fo eter should assure tha		nagnetic environment specified below. The customer or the user of the nevironment.
Immunity test	EN 60601 test level	Compliance level	Electromagnetic environment - guidance
Radiated RF	10 V/m	10 V/m	where p is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). ^b Field strengths from fixed RF transmitters, as determined by an electromagnetic sit survey, a should be less than the compliance level in each frequency range. ^b
IEC 61000-4-3	80 MHz to 2.7GHz	80 MHz to 2.7GHz	Interference may occur in the vicinity of equipment marked with the following symbol:

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic is affected by absorption and reflection from structures, objects and people.

a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM an FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Infrared thermometer is Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and used exceeds the applicable RF compliance level above, the Infrared thermometer should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the Infrared thermometer

b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.

Recommended separation distances between portable and mobile RF communications equipment and the EQUIPMENT or SYSTEM -for EQUIPMENT and SYSTEMS that are not LIFE-SUPPORTING

Recommended separation distances between portable and mobile RF communications equipment and the Infrared thermometer

The Infrared thermometer is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Infrared thermometer can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Infrared thermometer as recommended below, according to the maximum output power of the communications equipment

Rated maximum	Separation distance according to frequency of transmitter m		
output of transmitter	80 MHz to 800 MHz $d = \begin{bmatrix} \frac{3.5}{E1} \end{bmatrix} \sqrt{P}$	800 MHz to 2.7 GHz $d = \left[\frac{7}{E}\right] \sqrt{P}$	
0.01	0.12	0.23	
0.1	0.38	0.73	
1	1.2	2.3	
10	3.8	7.3	
100 12		23	

For transmitters rated at a maximum output power not listed above the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people

5 About the Temperature

- 1) the concept of body temperature: the body temperature refers to the body's internal temperature, the so-called normal body temperature is a healthy person's body temperature, in accordance with the measurement location, time, different objects may show different results
- 2) the normal body temperature, the different parts of the body to measure the results are not the same. Therefore, different parts of the measurement results should not be used to compare with each other. In physical health, multi test several times, prior to know their "normal temperature".
- NOTE: Product measurement data are used only as an aid to diagnosis.

6 Maintenance and Attention

The probe of Infrared thermometer is one of the most important parts, the front probe is most vulnerable. So be careful when using the measurement, avoid damaging the probe.

Please wipe the LCD screen and the shell is gently with clean soft cloth;

Please place Infrared thermometer in a cool and dry place, avoid direct sunlight;

- if a period of time not plan to use it.please cover the cap and remove the battery:

Please click the following ways to clean the probe:

Use a cotton swab or a soft cloth gently wipe with water or alcohol, and do not placed this product in water or a liquid immersion; Is the packaging products should be stored in a temperature of - 20 °C - 50 °C, relative humidity is not more than 85%, non corrosive gases and well ventilated room.

For a long time (more than 3 months) is not in use, please remove the battery storage. In addition into the battery is not used for a long time, may be due to battery leakage caused by fault;

The treatment of waste batteries according to the city of relevant environmental protection regulations for processing;

- if there is in need of repair, can provide information required for the circuit diagram and maintenance, if there is any doubt from circuit maintenance, contact the manufacturer.
- if you don't comply with the above note matters and other proper use and lead to machine failure, the company does not assume responsibility for the quality.

NOTE: Please follow local laws to dispose of waste scrap.

Production specifications

NO.	Item	Specifications
1	Name	Infrared Thermometer
2	Model	YK-IRT4
3	Product Categories	Internal power supply equipment BF type application part
4	Units of measurement	°C & °F key to switch
5	Range	34.0°C~43.0°C
6	Range Indicator	<34.0°C Show Lo, >43.0°C Show Hi
7	Accuracy	<35.0°C and >42.0°C: ±0.3°C 35.0°C~42.0°C: ±0.2°C
8	Measuring position	Forehead
9	Measuring interval	About 6s
10	The ambient temperature exceeds	≧40.0°C:show Hi <10.0°C:show Lo
11	Buzzer frequency	About 4Khz
12	Automatic shut-down	60 seconds after no operation
13	Low Voltage Tips	<2.4±0.4V , Battery symbol flashes
14	Memory function	Save last measured 12 memories (without memory Lo / Hi)
15	Operating Voltage	DC 2.4~3.3V
16	Working current	Standby:<2uA, Power:<5 mA (VDD=3.0V)Without backlight
17	Battery	2×1.5V AAA
18	Tri-color backlit	≤37.5°C Green 37.6°C∼38.0°C Yellow ≥38.1°C Red
19	Normal operating conditions	Ambient temperature: 16°C~35°C Relative humidity:≦85% Atmospheric pressure:70kPa~106kPa
20	Size	140mm×38mm×33mm (L×W×H)
21	N.W.	50g
22	Duration of use	5 years

- 1.One year free warranty period will be provided after sales.
- 2.Our company cannot provide the free warranty service due to the malfunction caused by personal reason, details as follow:
- 1) The malfunction caused by disassemble and modify the product.
- 2) The product inner malfunction caused by dropping while picking up or operating.
- 3) The malfunction caused by improper used or lack of reasonable cared 4) The malfunction caused by operating not following the operator's manual.
- 5) The malfunction caused by natural disasters, such as flooding, fire.
- 6) The malfunction caused by improper repaired by repaired shop which isn't our authorized.
- 3. Please show your valid warranty card and shopping vouchers when you need free service.
- 4.Please bring the product to repaired shop which is our authorized when you need free repaired.
- 5.When performing warranty service, if needed, you can provide information on product components to circuit diagrams and repairable identified by our qualified technical personnel.
- 6.We will collect reasonable charge when we repair some malfunctions which out warranty service.

Contact information

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