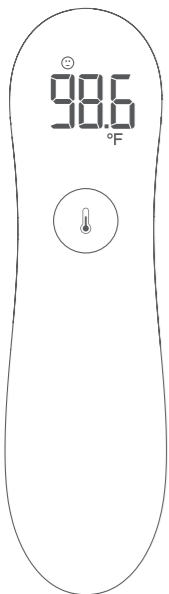


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Please read the guide carefully before use and keep it well.
For American please refer to "°F",
for European please refer to "°C".

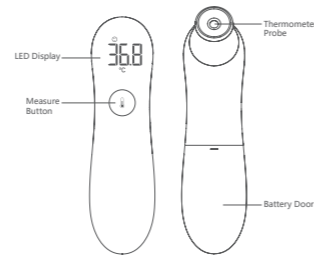
User manual version: V1.3

1. Product introduction

Thanks so much for choosing our product. This high-tech infrared thermometer is used to measure human body temperature by absorbing infrared energy from forehead of human. It can help you learn about the health of you and your family quickly at any time and anywhere.
Product name: Famidoc Infrared thermometer
Product model: FDIR-V4

2. Product component

The thermometer mainly consists of plastic shell, infrared temperature sensor, PCBA, buzzer chip, LED display and battery. Product front and back view shows below:



LED display description



3. Product specification

Model:	FDIR-V4
Power supply	DC 3V, 2*1.5V AAA batteries
Measuring range	32.0°C ~ 42.9°C (89.6°F ~ 109.2°F)
Measuring accuracy	35.0°C ~ 42.0°C ± 0.2°C (95.0°F ~ 107.6°F ± 0.4°F) outside this range: ± 0.3°C (± 0.5°F)
Display resolution	0.1°C / 0.1°F
Clinical repeatability	Within ± 0.3°C / 0.5°F
Measuring position	Ear canal or forehead
Reference position	oral cavity
Operation condition temperature	Temperature: 50.0°F ~ 104.0°F (10.0°C ~ 40.0°C) Relative humidity: ≤ 95%RH, non-condensing Atmospheric pressure: 70 kPa ~ 106 kPa

4. Intended use and application

This product mainly adopts infrared temperature measurement method to measure the temperature of forehead or ear canal and can be used for newborns, children and adults. We recommend adults to operate the thermometer instead of babies and children, the patient is an intended operator.

5. Contraindication

Measuring inflammation, trauma or postoperative lesions.

6. Attention

1. related to measurement

- The measurement results are for reference only. Please do not make self-diagnosis and treatment according to the measurement results. If necessary, please go to hospital to take a medical treatment.
- There is no absolute standard temperature of human body. In order to make a correct judgment for fever, it is important to know your normal body temperature, which is helpful to judge whether you have a fever or not.
- Before measuring the forehead temperature, please make sure there is no sweat, cosmetics, oil stain, etc.
- Before measuring the ear temperature, please make sure there is not too much wax in the ear canal
- Before measuring, please make sure that the person does not have shower, exercise or eat in past 30 minutes. When human body is in a stable status, the body temperature measured is more referential.
- Please do not measure the temperature near inflammation or scar, which will affect the temperature measurement results.
- Please do not measure the body temperature immediately after taking the medicine. The temperature measured at this time is not referential.
- Please do not measure in the environment where the temperature changes rapidly, such as the air outlet of air conditioner or heater, which will affect the temperature measurement results.
- When measuring repeatedly, the measurement results may have small deviation, which is a normal phenomenon. It is recommended to measure repeatedly for up to

Transport/Storage condition	Temperature: -13.0° F ~ 131.0° F (-25.0° C ~ 55.0° C)
Relative humidity	≤ 95%RH, non-condensing
Atmospheric pressure	70 kPa ~ 106 kPa
Battery life	2 years / 1000 measurements
Product size	143mm*39mm*44mm
Product weight	96g
Product service life	5 years
Warranty	1 year
Software version	V1.0
Grade of waterproof	IP22
Electric shock	Internally powered ME equipment
Applied part	Type BF applied part, including the whole unit

three times at a time.

- Please do not measure in strong electromagnetic interference environment (near working microwave oven, induction cooker, or near a active mobile phone call, etc.), which may lead to measuring improperly or inaccurate measurement results.
- This product is for personal use. In order to avoid cross infection, please pay attention to the cleaning and disinfection of the product.

2. related to product

- This product belongs to precision equipment. Please put it in the packaging box after use to avoid liquid splashing into the device and probe and prevent small foreign matter (such as dust) from falling into the probe, which may affect measurement results.
- Avoid falling on the ground or impacted by external force. Please do not disassemble and assemble by yourself.
- Avoid touching the probe directly with your finger or blowing it with your mouth. When the infrared probe is damaged or dirty, the measurement results may be inaccurate.
- Please put this product out of reach of the child to prevent the child from swallowing the battery or small parts of the thermometer.
- Do not put the thermometer and battery into the fire to prevent explosion.
- Please take out the batteries if the thermometer will not be used for more than 3 months.
- Self-diagnosis and treatment according to the measurement results are dangerous. Please consult a professional doctor for treatment based on the measurement results.
- No modification of this equipment is allowed.
- Do not modify this equipment without authorization of the manufacture.
- If this equipment is modified, appropriate inspection and testing must be conducted to ensure continuous safe use of the equipment.
- Please keep the product away from children, pets or st.
- The time required for this product to warm from the minimum storage temperature or to cool from the maximum storage temperature to the normal service temperature for at least 1 hour.

7. Installation and instruction

7.1. Installation of product

Put two batteries in the packaging box into the battery house on the back of the device. At the point the product will start self-inspection, and then will be ready to start measurement. (if the battery power is low when starting up, please replace the battery to ensure adequate power supply)



7.2. Measurement process

7.2.1. Ear temperature measurement

- Remove the thermometer cap.
- Put the thermometer probe gently into your ear canal and make sure you feel comfortable.
- When the probe enters into the ear canal, press the "measure button" lightly. When hearing the beeper sounds, the measurement is completed and you can take out the thermometer and check the measurement result.



7.2.2. Forehead temperature measurement

- Put the thermometer cap on.
- Aim the thermometer probe at the center of your forehead and touch the skin slightly
- Press the "measure button" lightly. When hearing the beeper sounds, the measurement is completed and you can check the measurement result.



7.2.3. Beeper sound explanation

If infrared thermometer beeps once, it means everything goes well. If the measurement result is 37.5°C or above, the infrared thermometer will beep twice. If the measurement result is 38.6°C or above, the infrared thermometer will beep four times. Measurement readings will be displayed on screen.

Temperature measuring range	Beeper sound indication
32.0°C (89.6°F) ≤ T ≤ 37.4°C (99.3°F)	The beeper makes a long beep sound
37.5°C (99.5°F) ≤ T ≤ 38.5°C (101.3°F)	The beeper makes "beep beep" ... "beep beep" sound
38.6°C (101.5°F) ≤ T ≤ 42.9°C (109.2°F)	The beeper makes "beep beep beep" ... "beep beep beep" ... sound.

7.2.4. Switching measurement modes

This device detects the measurement mode automatically. Put on the cap to switch to forehead measurement mode, and take off the cap to switch to ear measurement mode.



7.2.5. Power off

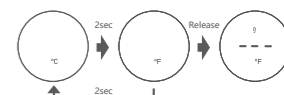
If the device is not in use, it will Power off automatically in 8 seconds.

7.3. Temperature unit selection

- Under power off mode, Press and hold the Measure Button for 8 seconds. The measurement system (°C or °F) automatically appears on the display.



- Keep hold the measure button, the unit °C and °F will be switched automatically. Release the button when the selected unit appeared, the device be auto into measure ready status. The unit selected is active



7.4. Battery installation and replacement

The thermometer will detect the power automatically after boot-up. If the power is low but still sufficient enough for usage, the low power symbol will appear on the screen along with the measurement result. However, when the battery is running too low, the low power symbol will be flashing on the screen, and after 8 seconds, it will automatically shutdown. You must replace new batteries to continue usage.

7.5. Battery replacement

- Press the battery door and slide it down to open the battery door.
- Take out the old batteries and replace them with new ones
- Insert the new batteries and keep it fixed. Pay attention and follow the polarity symbols to avoid installing reversely.
- Replace back the battery door to finish



- Please follow the related national laws of disposing the abandoned batteries
- Please do not throw the batteries directly to the garbage can
- Please take out the batteries if the device is not used for long periods of time.
- Please do not put the batteries in the fire

8. Knowledge of body temperature

The temperature of human body belongs in a range and the range may vary among people. Temperature of individuals

may also vary from time to time. The following table indicates the temperature range of the majority of people for your reference:




Ampit	34.7°C ~37.3°C	94.5°F ~99.1°F
Oral	35.5°C ~37.5°C	95.9°F ~99.5°F
Anus	36.6°C ~38.0°C	97.9°F ~100.4°F
Ear	35.5°C ~37.8°C	95.9°F ~100°F

Self-diagnosis and self-treatment based on the measurement results could be dangerous, please contact the doctor for advisory and provide him/her the measurement results for reference.

9. Calibration

The thermometer has already been calibrated at the time of manufacture. We suggest to change into new devices after 2 years from purchase, or seek assistance for calibration from professional organizations before usage. If you have any questions on the accuracy of the figures, please refer to the warranty policy.

10. Trouble-shooting

Problem or error message	Checklists	Solution
No response	The batteries are dead?	Replace batteries with new ones.
	The batteries type are wrong or reversed polarity?	Remove the batteries and adjust them correctly.
 Temperature is measured beyond temperature range from 32.0°C ~42.5°C (89.6°F ~102.5°F).  Hi: means that the temperature measured is too high Lo: means that the temperature measured is too low	Poor battery connection?	Refer to the user manual and measure the temperature again.
	The ambient temperature is beyond the operating range of 10°C ~40°C	Keep the thermometer in the environment where the temperature is between 10°C ~40°C for 30 minutes.
	Battery is running low	Please replace the battery in time not to disturb usage.
 The battery is almost dead and can not be used anymore.	Must replace new battery to continue usage.	

	Hardware damage	Please contact distributor for support
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11. Please contact distributor for support


- The probe is the most delicate part of the thermometer. It has to be clean and intact to ensure accurate readings. In order to clean the probe, please follow the way shows below: Wipe the surface of the probe gently using cotton or soft cloth with alcohol (75% Isopropyl).
- If the probe is damaged, please contact after-sales service and support.
- Use soft and dry cloth to clean the screen and thermometer casing. If the thermometer casing is too dirty, wipe it with soft cloth along with alcohol.
- The device is not water-proofed, please do not use detergent or place it in water or other liquid.
- We do not authorize any institution or individual to maintain and repair the product. If you suspect that the device might have issues concerning its functions, please do not repair the thermometer by yourselves.
- Thermometer is a very precise product, any improper repair or disassemble will cause inaccuracy of the measuring results.
- Please contact the after-sales service and support for any product issues within the warranty period.

12. Accessories

We only use original accessories. Check the accessory list below to ensure if the package delivered is complete.
















Quantity	Parts
1pcs	FDIR-V4 device including the body and cap
1pcs	User Manual
1pcs	Quick Guide
2pcs	AAA Battery

13. Final disposal

 Please do not dispose of the product in the household waste at the end of its useful life. To protect the environment, dispose of empty batteries at appropriate collection sites according to national or local regulations.

14. Explanation of standardized symbol

	Complies with the European Medical Device Directive (93/42/EEC), Notified Body is SGS Belgium NV.
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	Authorized representative in the European Community.
	Attention: see Instructions for use!
	Caution! Consult accompanying documents.
	Type BF applied parts
	Authorized representative in the European Community.
	Date of manufacture
	Medical Device
	Batch code
	Serial number
	Manufacturer information:
	IP code of the device: this device's grade of against ingress of solid foreign objects
	Disposal in accordance with Directive 2002/96/EC (WEEE)
	Keep dry
	UP
	Fragile, handle with care

15. Electromagnetic compatibility information

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. Not use of accessories, transducers and cables other than those specified or provided by the manufacturer of this the FDIR-V4 could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

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 FDIR-V4, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

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

Guidance and manufacturer's declaration – electromagnetic emission
The FDIR-V4 is intended for use in the electromagnetic environment specified below. The customer or the user of FDIR-V4 should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The FDIR-V4 uses RF energy only for its internal function. There for, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The FDIR-V4 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.
EMC emissions IEC 61000-3-2	Class A	
Voltage fluctuations flicker emissions IEC 61000-3-3	Complies	


Guidance and manufacturer's declaration – electromagnetic immunity – for all EQUIPMENT and SYSTEMS

Guidance and manufacturer's declaration – electromagnetic immunity			
The FDIR-V4 is intended for use in the electromagnetic environment specified below. The customer or the user of the FDIR-V4 should assure that it is used in such an environment.			
Immunity test	IEC 60601	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, ± 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%.
Electrostatic transient / burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV differential mode ± 2 kV common mode	± 1 kV differential mode	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% U _n ; 0,5 cycle U _n ; At 0°, 45°, 90°, 135°, 180°, 180°, 225°, 270° and 315° 0% U _n ; 1 cycle and 70% U _n ; 70% U _n ; 25/30 cycles Single phase: phase: at 0° 0% U _n ; 250/300 cycle	0% U _n ; 0,5 cycle U _n ; At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% U _n ; 1 cycle and 70% U _n ; 25/30 cycles Single phase: phase: at 0° 0% U _n ; 250/300 cycle	Mains power quality should be that of a typical commercial or hospital environment. If the user of the FDIR-V4 requires continued operation during power mains interruptions, it is recommended that the FDIR-V4 be powered from an uninterruptible power supply or a battery.

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 of a typical location in a typical commercial or hospital environment.
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Note: U_n is the a.c. mains voltage prior to application of the test level.

Guidance and manufacturer's declaration – electromagnetic immunity – for EQUIPMENT and SYSTEM

Guidance and manufacturer's declaration – electromagnetic immunity			
The FDIR-V4 is intended for use in the electromagnetic environment specified below. The customer or the user of the FDIR-V4 should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
3 Wms 150 kHz to 80 MHz 6 V in ISM and amateur radio bands between 0,15 MHz and 80 MHz Conducted RF IEC 61000-4-6 80 MHz to 2.7 GHz Radiated RF IEC 61000-4-3 385MHz-5785MHz Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communication equipment (Refer to table 9 of IEC 60601-1-2:2014)	3V 150 kHz to 80 MHz 6V in ISM and amateur radio bands between 0,15 MHz and 80 MHz 10 V/m 80 MHz to 2.7 GHz 385MHz-5785MHz Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communication equipment (Refer to table 9 of IEC 60601-1-2:2014)	3V 150 kHz to 80 MHz 6V in ISM and amateur radio bands between 0,15 MHz and 80 MHz 10 V/m 80 MHz to 2.7 GHz 385MHz-5785MHz Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communication equipment (Refer to table 9 of IEC 60601-1-2:2014)	Portable and mobile RF communications equipment should be used no closer to any part of the FDIR-V4, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = \left[\frac{3.5}{V_1} \right] \sqrt{P}$ $d = \left[\frac{12}{V_2} \right] \sqrt{P}$ $d = \left[\frac{3.5}{E_1} \right] \sqrt{P}$ $d = \left[\frac{7}{E_2} \right] \sqrt{P}$ 800 MHz to 2.7 GHz 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). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range.* 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.

- The ISM (industrial, scientific and medical) bands between 150 kHz and 80 MHz are 6,765 MHz to 6,795 MHz; 13,553 MHz to 13,567 MHz; 26,957 MHz to 27,283 MHz; and 40,66 MHz to 40,70 MHz. The amateur radio bands between 0,15 MHz and 80 MHz are 1,8 MHz to 2,0 MHz, 3,5 MHz to 4,0 MHz, 5,3 MHz to 5,4 MHz, 7,1 MHz to 7,3 MHz, 10,1 MHz to 10,15 MHz, 14 MHz to 14,2 MHz, 18,07 MHz to 18,17 MHz, 21,0 MHz to 21,4 MHz, 24,89 MHz to 24,99 MHz, 28,0 MHz to 29,7 MHz and 50,0 MHz to 54,0 MHz.
- Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and 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 FDIR-V4 is used exceeds the applicable RF compliance level above, the FDIR-V4 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the FDIR-V4.
- 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

Recommended separation distances between portable and mobile RF communications equipment and the FDIR-V4				
The FDIR-V4 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the FDIR-V4 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the FDIR-V4 as recommended below, according to the maximum output power of the communications equipment.				
Rated maximum output of transmitter W	Separation distance according to frequency of transmitter m			
	150 kHz to 80 MHz outside ISM and amateur radio bands $d = \left[\frac{3.5}{V_1} \right] \sqrt{P}$	150 kHz to 80 MHz in ISM and amateur radio bands $d = \left[\frac{12}{V_2} \right] \sqrt{P}$	80 MHz to 800 MHz $d = \left[\frac{3.5}{E_1} \right] \sqrt{P}$	800 MHz to 2.7 GHz $d = \left[\frac{7}{E_2} \right] \sqrt{P}$
0.01	0.12	0.20	0.035	0.07
0.1	0.38	0.63	0.11	0.22
1	1.2	2.00	0.35	0.70
10	3.8	6.32	1.10	2.21
100	12	20.00	3.5	7.0

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.

16. Warranty

In case of any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the member state.

We provide one year warranty starting from the date of purchase. Please refer to the followings situations that are excluded from the free repair services within the warranty period.

- All damages caused by disassembly and repair of the device by yourselves.
 - All damages caused by dropping the device during usage, or transport.
 - All damages caused by improper usage of the device and not following the instructions on the user manual.
- Please contact after-sales service and support and enclose your product purchase receipt while claiming for warranty services.

Location of purchase: :

Contact number: :

Date of purchase: :


Famidoc Technology Co., Ltd.
Add: No. 212 Yilong Road, Hexi Industrial Zone, Jinxia, Changan Town, Dongxun 523853, Guangdong Province, P.R. China.
Tel.: +86-769-89272488
Fax: +86-769-89272498
Website: www.famidoc.com



Name: Shanghai International Holding Corp. GmbH (Europe)
Add: Eiffelstrasse 80, 20537 Hamburg, Germany