



User Manual

DG-PC809

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1. Introduction

Dear customer, thank you for purchasing our Medicalinfrared thermometer, the thermometer can be used to measure the human body temperature by detecting infrared energy emitted from the forehead or the eardrum.

In order to get accurate readings, please to read the manual before using.

Keep this manual so that you may read it at anytime when necessary.

The models suitable for this manual and their differences are as follows:

Model	Difference
PC809	At the end of the temperature measurement, the buzzer give a ‘beep’ cue.
PC809E V	At the end of the temperature measurement, the speakers broadcast the temperature in English.
PC809V	At the end of the temperature measurement, the instrument emitsvibration feedback.

In addition to the above differences, the expected use of the three models are exactly the same.

Note: Ear temperature measurement can only be applied to people who are over 3 months old.

2. Packing list

Medicalinfrared thermometer 1 pc

Storage bag 1 pc

User’ s manual 1 pc

AAA dry battery (optional) 2 pcs

3. Product description

3.1 Overview

Infrared thermometer measures the body temperature based on detecting the infrared energy emitted from the eardrum or the forehead. Users can quickly get measurement results after positioning properly the temperature probe in the ear canal or on the forehead.

Normal body temperature has a range. The following table shows that this normal range also varies by measuring different site. Therefore, readings from different site should not be directly compared. Tell your doctor what type of thermometer you used and what part of body you measured are very important. Also keep this in mind if you are diagnosing yourself.

Measuring site	Normal range of temperature
Forehead	36.1°C to 37.5°C (97.0°F to 99.5°F)
Ear	35.8°C to 38.0°C (96.4°F to 100.4°F)
Mouth	35.5°C to 37.5°C (95.9°F to 99.5°F)
Anus	36.6°C to 38.0°C (97.9°F to 100.4°F)
Axilla	34.7°C to 37.3°C (94.5°F to 99.1°F)

3.2 Intended use

The multifunctional infrared thermometer is intended for measuring the human body temperature, it has two measurement modes, the forehead mode is indicated for people of all ages and the ear mode is indicated for people above three months old.

3.3 Principle

The infrared temperature sensor collects infrared energy emitted by the eardrum in the ear canal or the skin of forehead. After being focused by a lens, the infrared energy is converted into a temperature reading by the thermopiles and measurement circuits.

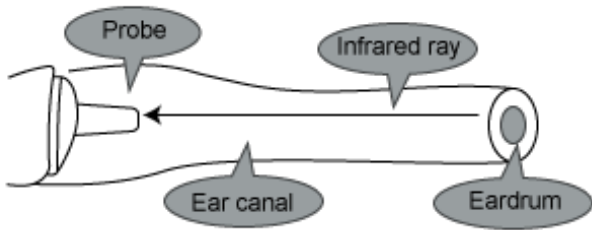


Fig. 1

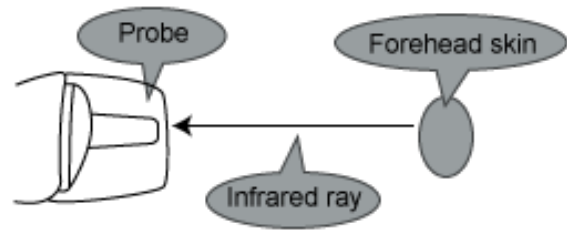


Fig. 2

3.4 Features

- Quick measurement, only 1 second
- Accurate and reliable
- One button design, easy to operate
- Both forehead and ear measurement mode
- 32 sets of memory, easy to recall
- Switch degrees Celsius ($^{\circ}\text{C}$) and Fahrenheit ($^{\circ}\text{F}$)
- Turn on or off the buzzer/speaker/vibration function
- Lighting an orange LED, intelligent low fever alarm
- Lighting a red LED, intelligent high fever alarm
- Automatic shutdown, energy saving

3.5 Components

The infrared thermometer consists of a shell, a LED display screen, a button, a

buzzer/speaker/vibration motor, a probe with infrared sensor inside, a microprocessor, a circuit board and measuring software.

3.6 Product structure

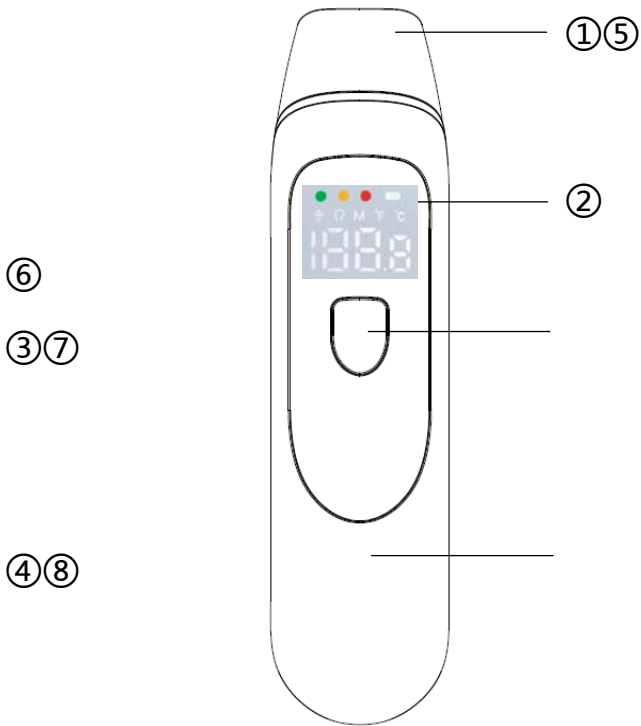


Fig. 3

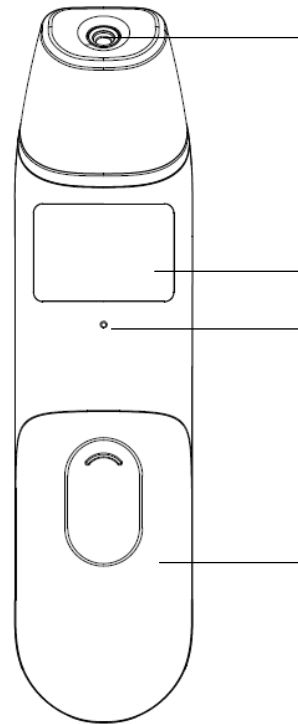


Fig. 4

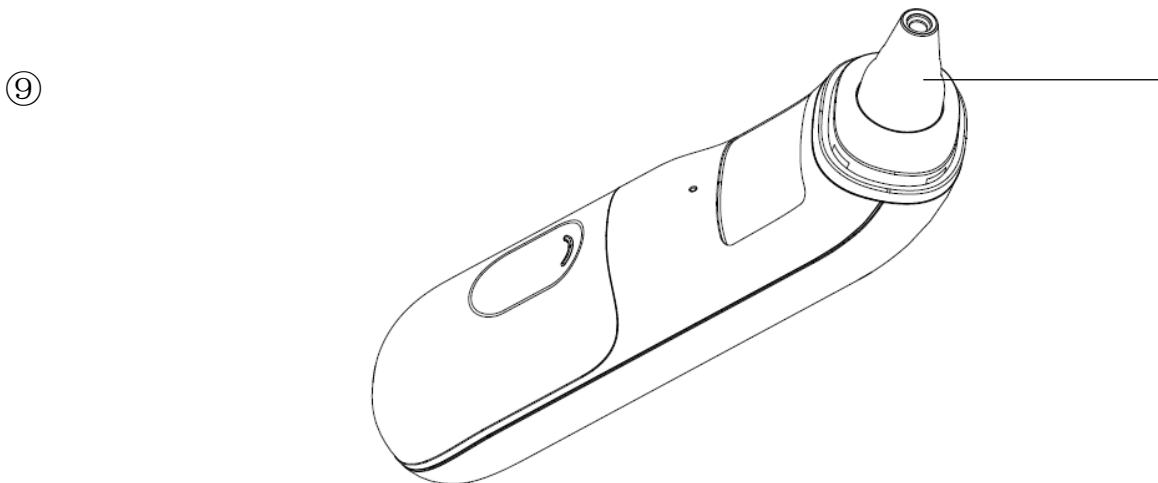


Fig. 5 (remove probe cover)

- ① Probe cover (remove it when measuring ear temperature)
- ② LED display screen
- ③ Power/Measure/Set button
- ④ Top Cover
- ⑤ Infrared sensor
- ⑥ Label
- ⑦ Buzzer/Speaker hole
- ⑧ Battery cover
- ⑨ Probe

3.7 LED display description

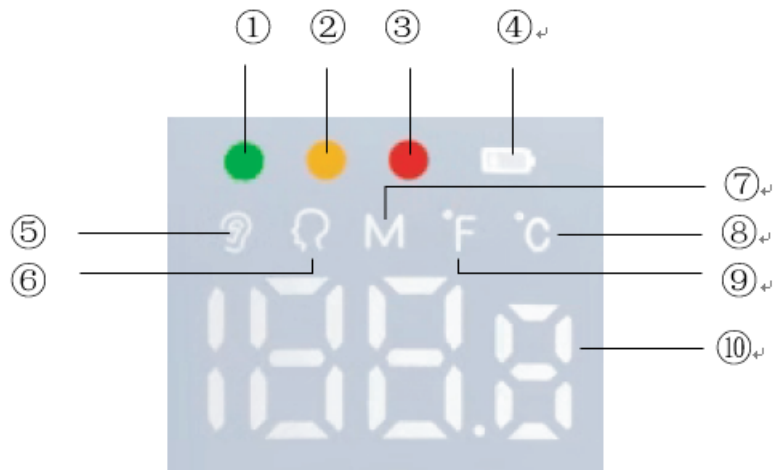


Fig. 6

- ① Green status light
- ② Orange status light
- ③ Red status light
- ④ Low battery indicator
- ⑤ Ear temperature mode
- ⑥ Forehead temperature mode
- ⑦ Memory mode
- ⑧ Degree Celsius
- ⑨ Degree Fahrenheit
- ⑩ Temperature value

4. Warnings and precautions

- 1) Keep out of reach of children under 12 years.
- 2) Never immerse the thermometer into water or other liquids (not waterproof). For

cleaning and disinfecting please follow the instructions of 'Cleaning and disinfection' section.

- 3) Never use the thermometer for purposes other than its intended use. Please follow the general safety precautions when using on children.
- 4) Keep the thermometer away from direct exposure to the sun and keep it in a dustfree, dry area, wellventilated place at a temperature between $10.0^{\circ}\text{C}/50.0^{\circ}\text{F}$ - $40.0^{\circ}\text{C}/104.0^{\circ}\text{F}$. Do not use the thermometer in high humidity environment ($>85\%$ RH).
- 5) Do not use the thermometer if there are signs of damage on the infrared sensor lens or on the instrument. If damaged, do not attempt to repair the instrument! Please contact the dealer or manufacturer.
- 6) This thermometer consists of highprecision parts. Do not drop the instrument, protect it from severe impact and shock, do not twist the instrument or the infrared sensor.
- 7) Please consult your doctor if you see symptoms such as unexplained irritability, vomiting, diarrhea, dehydration, changes in appetite or activity, seizure, muscle pain, shivering, stiff neck, pain when urinating, etc., even in the absence of fever.
- 8) Even in the absence of fever, those who exhibit a normal temperature may still need to receive medical attention. People who are on antibiotics, analgesics, or antipyretics should not be assessed solely on temperature readings to determine the severity of their illness.
- 9) Temperature elevation may signal a serious illness, especially in adults who are old, frail, have a weakened immune system, or neonates and infants. Please seek professional advice immediately when there is a temperature elevation and if you

are taking temperature for whom are:

- Over 60 years of age (Fever may be blunted or even absent in elderly patients)
- Having diabetes mellitus or a weakened immune system (e.g. HIV positive, cancer, chemotherapy, chronic steroid treatment, splenectomy)
- Bedridden (e.g. nursing home patient, stroke, chronic illness)
- A transplant patient (e.g. liver, heart, lung, kidney)

10) This thermometer is not intended for premature babies or small for gestational age babies. This thermometer is not intended to interpret hypothermic temperatures. Do not allow children to take their temperatures unattended.

11) Use of this thermometer is not intended as a substitute for consultation with your physician or pediatrician. It is for household use only.

12) Clean the thermometer probe after each use.

13) Do not use the thermometer on newborns or continuous temperature monitoring purposes.

14) Do not take a measurement while or immediately after nursing a baby.

15) Patients should not drink, Eat, have a bath or do Physical activity unless 30 minutes in advance. During eating, some organs have to work, such as Stomach, intestinal tract etc, so there is extra heat to affect temperature accuracy.

5. Direction for use


Please load the batteries before using the thermometer at the first time and take out the batteries when you don't use the thermometer for a long time, such as over one month.

Additionally, refer to the part 3 of Fig. 3, this thermometer is one button design, so

actually it is the same thing when we describe ‘the Power button’, ‘the Measure button’ and ‘the Set button’ in subsequent instructions.

5.1 Take your forehead temperature

Press the Power button to power on.

Keep the probe cover touch the middle of your forehead, then press and release the button. About 1 second later, beep will be heard, at that time you can get the readings. In Forehead Mode, the symbol  shows on screen.

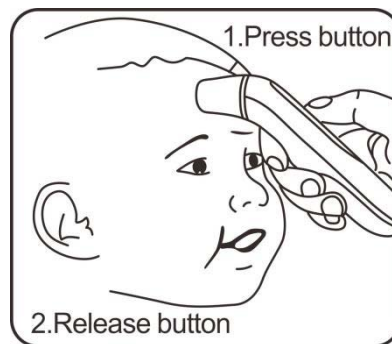





Fig. 7

Note: The forehead measurement is an indicative reading. The measured forehead temperature can fluctuate up to $0.5^{\circ}\text{C}/1^{\circ}\text{F}$ from your actual body temperature. Please be aware of the factors that influence the accuracy as described in the sections of ‘Temperature taking tips’ and ‘Warnings and Precautions’.

 In order to improve the accuracy, please make sure your forehead is not covered by hair, sweat or dirt.


 Make sure the probe sensor is clean before using the thermometer.

 Before using the thermometer, ensure that both the user and the thermometer remain in the same room with stable airflow and room temperature is between 10.0°C

/50.0°F and 40.0°C/104.0°F for at least 30 minutes.

5.2 Take your ear temperature

Press the Power button to power on.

Take off the probe cover, fit the probe snugly into the ear canal. Press and release the button, about 1 minutes later, beep will be heard, at that time you can get the readings. In Ear Mode, The symbol  shows on screen.

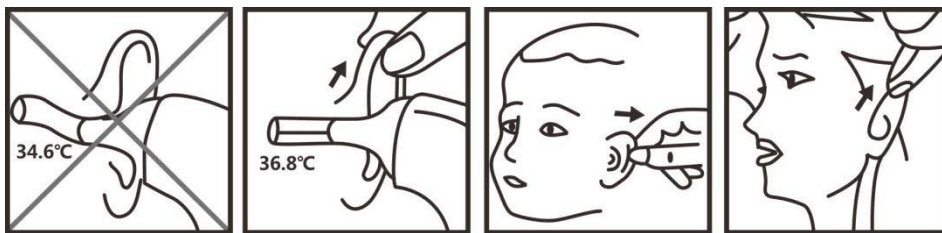





Fig. 8

 Please make sure that your ear is clean, without earwax or obstructions.

 The temperature is slightly difference between left ear and right ear. So please do not to compare the readings of left ear and right ear directly and keep the same ear to measure the temperature each time.

 Do not force the thermometer probe into the ear canal. Otherwise, the ear canal may get hurt.

 Be careful when taking ear temperature on a child, whose ear canal is small.

 When taking the ear temperature for a child aged over 1 year or an adult, gently pull the ear up and back to make the ear canal become straight, so that the probe can receive an infrared ray from the eardrum.

5.3 Recall the memories

The thermometer can store 32 sets of measurement data, when the data is full, the last one will always replace the first one.

If you want to review the previous measurement data, in the state of Thermometer shutdown, pressing setting button for About 3 seconds until you see the **‘M’** symbol flicker on the screen, release the button.

Press the button, you can see the number ‘1’ appears on the right side of screen, it means the first memory, then the number ‘1’ disappears quickly and pop up the first remembered temperature value. Press the button one by one, so you can see all the remembered temperature values in turn for all of memories. After review the memory data, press the button for about 5 seconds, thermometer will shutdown and save the setting automatically.

5.4 °C and °F conversion

If you want to convert °C to °F or °F to °C, in the state of thermometer shutdown, pressing the Setting button for about 6 seconds until you see the **‘°C’** symbol or the **‘°F’** symbol flicker on the screen, then release the button. Press the button again, then the °C symbol or the °F symbol will be converted to another.

Don't release the button when “M” Symbol appearing, only release when “C” or “F” appearing. After finish conversion, Press the button for about 5 seconds, thermometer will shutdown and save the setting automatically.

5.5 Turn on or off the buzzer/speaker/vibration

The three PC809, PC809EV, PC809V models are different in how they interact with users at the end of the measurement: the PC809 uses a buzzer to ‘beep’, the PC809EV

communicates the temperature over a speaker, and the PC809V vibrates through a motor. Please to check the thermometer model from back side label.

If you want to turn on or off the buzzer/speaker/vibration, in the state of thermometer shutdown, press the setting button for about 9 seconds until you see the **'ON' symbol** or the **'OFF' symbol** appears on the screen, then release the button and press the setting button again, then the 'ON' symbol or the 'OFF' symbol will be converted to another.

After selection, Press the button for about 5 seconds, the thermometer will shutdown and save the setting automatically.

5.6 Set threshold for low fever

This thermometer has preset $37.5^{\circ}\text{C}/99.5^{\circ}\text{F}$ as an alarm temperature for low fever. However, $37.5^{\circ}\text{C}/99.5^{\circ}\text{F}$ is only a reference value, at this temperature, different people feel different, some feel uncomfortable but others feel fine, so if you don't agree with this low fever threshold, you can manually change it to suit your own situation after consulting your doctor.

In the state of shutdown, hold pressing the Set button 12 seconds until you see **the orange status light** on the screen, release the button. Don't care about the other symbols that appear in the process.

Press the Set button, you can increase $0.1^{\circ}\text{C}/0.2^{\circ}\text{F}$ for this threshold every time, the adjustment range is from $37.5^{\circ}\text{C}/99.5^{\circ}\text{F}$ to $37.9^{\circ}\text{C}/100.2^{\circ}\text{F}$. Once it reaches the Max. value, press the button again, it will go back to the Min. value, then repeat the cycle.

After setting done, Press the button for about 5 seconds, the thermometer will shutdown and save the setting automatically.

5.7 Set threshold for high fever

This thermometer has preset 38.0°C/100.4°F as an alarm temperature for high fever. However, 38.0°C/100.4°F is only a classic reference value, at this temperature, different people feel different, some feel bad but others feel not too bad, so if you don't agree with this high fever threshold, you can manually change it to suit your own situation after consulting your doctor.

In the state of shutdown, hold pressing the Set button 15 seconds until you see **the red status light** on the screen, release the button. Don't care about the other symbols that appear in the process.

Press the Set button, you can increase 0.1°C/0.2°F for this threshold every time, the adjustment range is from 38.0°C/100.4°F to 38.9°C/102.0°F. Once it reaches the Max. value, press the button again, it will go back to the Min. value, then repeat the cycle.

After setting done, Press the button for about 5 seconds, the thermometer will shutdown and save the setting automatically.

5.8 Turn off

When the thermometer is turned on, the thermometer will shut down automatically after it is not used for 30 seconds, or you can hold down the Power button for 5 seconds to shut down the machine manually.

5.9 Replace the battery

When **the low battery indicator** is lighting on the screen, downward slide the battery cover off the shell, take out two old batteries with insufficient power, properly mount two new AAA batteries into the battery bin according to the marked polarity

symbols, close the battery cover, the thermometer can be restored to normal use.

⚠ Take out the batteries if the thermometer will not be used for more than one month.

6. Common sense of temperature measurement

1) It is important to know each individual normal temperature when they are well.

This is the only way to accurately diagnose a fever. Record readings twice in a day, early morning and late afternoon. Take the average of the two temperatures to calculate normal oral equivalent temperature. Always take the temperature in the same location, since the temperature readings may vary from different locations on the forehead.

2) The normal temperature of a child can be as high as $37.7^{\circ}\text{C}/99.9^{\circ}\text{F}$ or as low as $36.1^{\circ}\text{C}/97.0^{\circ}\text{F}$, please note that this thermometer reads $0.5^{\circ}\text{C}/0.9^{\circ}\text{F}$ lower than a rectal digital thermometer.

3) External factors may influence ear temperatures, including when an individual has:

- a) been lying on one ear or the other
- b) earwax
- c) been exposed to very hot or very cold environment
- d) been just swimming or bathing

In these cases, return to normal condition by wait quietly 30 minutes prior to taking a temperature.

Use the untreated ear if prescription ear drops or other ear medications have been placed in the ear canal.

4) Users will be measured and the thermometer should stay in a steady-state room condition for at least 30 minutes.

- 5) Before place the thermometer probe on your forehead, remove the hair, dirt, or sweat of the test area. Wait 10 minutes after cleaning before measuring temperature.
- 6) Use an alcohol swab to carefully clean the sensor and wait for 5 minutes before taking a measurement on other people. Wipe your forehead with a warm or cool cloth may affect the reading. It is advised to wait 10 minutes before taking a reading.
- 7) In the following situations it is recommended that measure 3-5 times with the same location and take the highest one as the reading:
 - a) Newborn infants in the first 100 days;
 - b) Children under 3 years of age with compromised immune
 - c) When the user is learning how to use the thermometer for the first time until he/she has familiarized himself/herself with the instrument and obtains consistent readings.

7. Cleaning and disinfection

7.1 Cleaning

Wipe the thermometer body with a slightly damp soft cloth, and gently dry the body with a piece of tissue paper, take care not to scratch the surface of LED display screen.

Can only use cotton swabs dip in anhydrous ethanol to clean the infrared sensor lens.

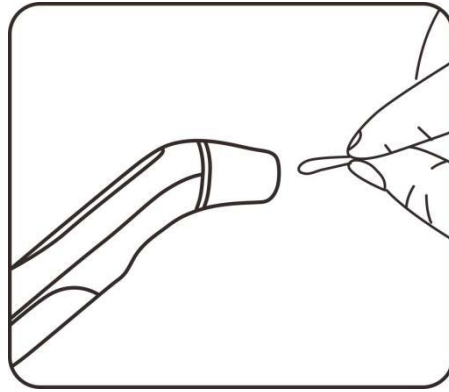


Fig. 9

⚠ Keep water off the infrared sensor lens during the cleaning process. Otherwise, the lens may be damaged.

⚠ The infrared sensor lens may be scratched if it is cleaned with a piece of tissue paper, resulting in inaccurate readings.

⚠ Do not touch the infrared sensor lens with hard objects.

⚠ Never use abrasive cleaning agents, thinners or benzene for cleaning.


⚠ Never immerse any part of the thermometer into liquid, or allow liquid to enter the thermometer.

7.2 Disinfection

Disinfect the thermometer body and the area around the probe with a soft cloth slightly moistened with 75% medical alcohol, not to disinfect the infrared sensor lens. Because 75% medical alcohol contains water, which may damage infrared sensors.

⚠ Do not use hot steam or ultraviolet radiation for disinfection. Otherwise, the thermometer may be damaged or quickly aged.

8. Troubleshooting

Symptom	Possible Cause	Solution
Failed to power on	The battery level is too low	Replace new batteries.
	Polarities of the batteries are reversed	Ensure the batteries are mounted right.
	The thermometer is damaged	Contact the dealer or manufacturer.
Reading is too low	The infrared sensor lens of the probe is dirty	Use cotton swabs dipped in anhydrous ethanol to clean infrared sensor lens.
	The distance between the probe and the target under test is too far	Let the probe cover touch your forehead, or put the probe into your ear canal.
	You have just come from a cold environment	Stay in a room between 10.0°C/50.0°F and 40.0°C/104.0°F for at least 30 minutes before taking a temperature measurement.
Reading is too high	You have just come from a hot environment	Stay in a room between 10.0°C/50.0°F and 40.0°C/104.0°F for at least 30 minutes before taking a temperature measurement.
	You are exposed to hot air generated by an air conditioner or heater	Leave the environment for at least 30 minutes before starting to take your temperature.
	Low battery	Replace new batteries.
Hi	Human body temperature over 42.9°C/109.2°F	<ol style="list-style-type: none"> 1.Firstly make sure the probe is clean and no dirty on it. 2.If it`s the enviroment tempertature out of range, then patient and thermometer should both stay in a room between 10.0°C/50.0°F and 40.0°C/104.0°F for at least 30 minutes before taking a temperature measurement. 3.If the problem persists after trying the above method, please to contact the dealer or manufacturer.
Lo	Human body temperature below 32.0°C/89.6°F .	<ol style="list-style-type: none"> 1.Firstly make sure the probe is clean and no dirty on it. 2.If it`s the enviroment tempertature out of range, then patient and thermometer should both stay in a room between 10.0°C/50.0°F and






		40.0°C/104.0°F for at least 30 minutes before taking a temperature measurement. 3.If the problem persists after trying the above method, please to contact the dealer or manufacturer.
Err	Environment temperature is not in 10°C to 40°C or 50°F to 104°F range.	1.Firstly make sure the probe is clean and no dirty on it. 2.If it`s the enviroment temperature out of range, then patient and thermometer should both stay in a room between 10.0°C/50.0°F and 40.0°C/104.0°F for at least 30 minutes before taking a temperature measurement. 3.If the problem persists after trying the above method, please to contact the dealer or manufacturer.

9. Specification

Product name	Medical infrared Thermometer
Product model	PC809/PC809EV/PC809V
Applicable regulations and laws	ASTM E 1965 / EN12470-5 / GB/T 19146
Power supply	DC 3.0V (2 pcs of AAA battery)
Battery life	More than 2000 measurements
Low battery indicator	Appears on screen when the voltage is below 2.6V±0.1V
Measurement mode	Forehead& Ear
Measurement time	1s
Temperature units	°C & °F, convertible
Measurement range	32.0°C/89.6°F to 42.9°C/109.2°F
Accuracy	±0.2°C/0.4°F
Display resolution	0.1°C/°F
Automatic shutdown	30s ± 1s
Memory	32 sets of measurement
Operation environment	Temperature: 10.0°C/50.0°F ~ 40.0°C/104.0°F Humidity: 20%-85% RH, non-condensing Atmospheric pressure:86kPa ~ 106kPa
Storage & shipping environment	Temperature: -20°C/-4°F ~ 55°C/131°F Humidity: 20%-93% RH, non-condensing Atmospheric pressure:86kPa ~ 106kPa
Date of manufacture	See the label

Life	5 years
Net weight	70g (Not include battery)
Dimension	155mm×38mm×45mm

10. Symbols description

Symbol	Description
	Type BF applied part.
	Information about a manufacturer, such as name and address.
	Please read the instructions carefully.
	Waste electrical materials should be sent to a dedicated collection point for recycling.
SN	Serial number
LOT	Batch number
	IMPORTANT Inaccurate reading or thermometer damage may occur if the thermometer is not correctly used.

11. Maintenance

- 1) After each use, clean the temperature probe as described in ‘Cleaning and Disinfection’.
- 2) Store the thermometer in a dry, dust-free, and well-ventilated place.
- 3) Ensure that the thermometer is not exposed to sunlight.
- 4) Ensure that the storage and transportation environments meet the requirements.
- 5) Check whether safety risks exist on a regular basis.
- 6) Remove the batteries if the thermometer will not be used for more than one month.

12. After-sale service

The device is under warranty for one year since the date of acquisition. Application

for repairing should be presented during the warranty period. The damage caused by improper use is not under warranty scope. Batteries and packaging are not under warranty scope as well.

13. Declaration

EMC of this product complies with IEC60601-1-2 standard. The materials which the user can come into contact have no toxicity and no action on tissues comply with ISO10993-1, ISO10993-5 and ISO10993-10.

14. Appendix A: EMC Information-Guidance and Manufacturer's

Declaration

CAUTION!

- Infrared Thermometer needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided for in the ACCOMPANYING DOCUMENTS.
- Portable and mobile RF communications equipment can affect infrared thermometer.
- The Infrared Thermometer should not be used adjacent to or stacked with other equipment.

Guidance and manufacturer's declaration-electromagnetic Emission-for all EQUIPMENT and SYSTEMS

Guidance and manufacturer's declaration-electromagnetic emission
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.		
Emissions test	Compliance	Electromagnetic environment-guidance
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 not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	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.

Guidance and manufacture’s declaration-electromagnetic immunity-for all EQUIPMENT 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 is should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6KV contact ±8KV air	±6KV contact ±8KV 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	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

**Guidance and manufacturer’s declaration-electromagneticimmunity-for
EQUIPMENT and SYSTEM that are notLIFE-SUPPORTING**

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 is should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Radiated RF IEC 61000-4-3	3 V/m 80 MHz To 2.5 GHz	3 V/m	Portable and mobile RFcommunications equipment should be used no closer to any part pf the AT-FR401
			<p>Infrared Thermometer,including cables,than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance</p> $d = \left[\frac{3.5}{V1} \right] \sqrt{P}$ $d = \left[\frac{3.5}{E1} \right] \sqrt{P} \quad 80 \text{ MHz to } 800 \text{ MHz}$ $d = \left[\frac{7}{E1} \right] \sqrt{P} \quad 800 \text{ MHz to } 2.5 \text{ GHz}$ <p>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 site survey,a should be less than the compliance level in each frequency range.b interference may occur in the vicinity of equipment marked with the following symbol:</p>



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.

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 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. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/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 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
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output power of transmitter W	150 kHz to 80 MHz $d = \left[\frac{3.5}{V1} \right] \sqrt{P}$	80 MHz to 800 MHz $d = \left[\frac{3.5}{E1} \right] \sqrt{P}$	800 MHz to 2.5 GHz $d = \left[\frac{7}{E1} \right] \sqrt{P}$
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.

15. Information statement

This guide is for reference only and does not constitute any form of warranty. If you have any questions, please browse <https://www.mydigoo.com/> for more informations.