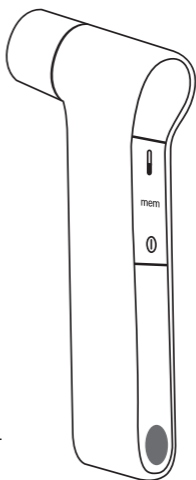


EVOLU[®]
electronics

www.evolu.health

INFRARED

EAR • FOREHEAD
thermometer



INFRARED
Ear/Forehead
Thermometer

NON-CONTACT

USER MANUAL

Thanks for buying and using this product, please read this manual carefully before use.

Catalogue











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Safety caution items

The warning signs and illustrations indicated in the manual are intended to enable you to use the product safely and correctly and to prevent any harm to you and others.



Warning signs, illustrations and their meanings are as follows.

LEGENDS

-  This mark means warning things (the things that you have to follow).
-  It means general warning.
-  This mark means prohibited things (not allowed things).
-  This mark means prohibited disassembly.
-  Type BF Applied part.
-  Water resistance, moisture resistance.
-  It means that you need to read the manual carefully before use.
-  It means the package of this unit can comply with the requirements of green environmental protection.
-  It means that the material of product or product itself is made of renewable material so that we can cycle this product, which benefits the environment and our earth.
-  You should not place the electrical item in the general waste. Disposal of all waste material should be in accordance with local guidelines.

IP22 IP Classification

WARNING

- Please ask professional doctors to explain the measured value of body temperature.
- No mobile phones are allowed to use around this product. 
- Please do not use equipment that generates electromagnetic fields near the product.
- Please do not disassemble or repair this device by yourself including changing device. 
- Please do not bend or stretch the device hard.
- Please do not impact or drop this product.

WARNING ITEMS

- This unit is only used for human body temperature measurement without use of disease diagnosis; it cannot be used for emergency and continuous measurement in surgery.
- The children should get away from this product. If the children are in this range from zero to twelve years old, they need to use this unit to measure under their parents help.
- The patients cannot diagnose the disease and get treatment by themselves on the base of measurement result, they must follow the instruction of doctors.
- Children under 12 years of age and those who cannot express their thoughts are prohibited from using them.
- Please do not use this product for these people who suffer from otitis external, tympanitis and other ear diseases.



If you use or store this product beyond the range of specified temperature and humidity, maybe it can not reach original performance specification.

Use environment



+40°C
+10°C



15%~93%
RH

Environment
temperature

Humidity

Storage environment



+55°C
-25°C



0%~93%
RH

Environment
temperature

Humidity

Product introduction

Intended use: Infrared Forehead Thermometer intended to measure human body temperature by measuring ear canal or forehead.

Scope of application: It is suitable for displaying the body temperature of the measured object by measuring the heat radiation in the ear canal or forehead.

Features:

1. Non-touching type infrared measurement of ear/ forehead temperature.
2. Multiple colors and backlight display: White, Green, Orange and Red.
3. 9 sets of memory values.
4. The switch of degree Fahrenheit °F and degree Celsius °C. (original setting is degree Celsius °C)
5. Instant measurement within 1 second.
6. The design is convenient and economical without earmuff, which can save subsequent use costs.
7. It has the function of sound on/off.
8. The machine idle time of 30 seconds, turn off power automatically.

WARM TIP:

The measurement results of this unit at any time only can be a reference, it can not replace the medical diagnosis of professional doctor. If you have any question about the personal temperature measurement result, please use and diagnose under the right instructions of doctor.

Use caution items

WARNING

1. It is very dangerous for patients to judge and treat on their own only by measurement results, so please be sure to follow the doctor's instructions.
 - Self-judgment may lead to a worsening condition of patient.
2. Please do not touch with your hands or blow infrared sensor with your mouth.
 - When the infrared sensor is damaged or dirty, it may cause abnormal measurement results.
3. If there is a temperature difference between the storage site and the measurement site, please place it at room temperature (measurement site) for about 30 minutes before next measurement.
 - May result in incorrect measurement results.
4. Please keep this product out of the reach of children.
 - When the child is taking the measurement by himself, his ears may get hurt. If he swallows the battery or the transparent cover accidentally, please contact your doctor immediately.
5. When measuring body temperature, please do not get close to air conditioning.
 - Avoid affecting the measurement accuracy.
6. Before and after use every time, use a cotton swab dipped 70% alcohol to wipe the probe surface. (If you see stains, fog or water on the infrared sensor glass, please use a cotton swab dipped 70% alcohol for wiping the infrared sensor glass gently.)
 - If you wipe it with toilet paper or facial tissue, it will scratch the infrared sensor resulting in incorrect measurement result.
 - Avoid cross-infection of ear disease and affect the accuracy of the measurement.
7. The product suffers mechanical damage.
 - There is a possibility that the measurement is not right.
8. The product touches water or immerses water accidentally, please fully dry before use, especially the water on the surface of

the sensor should be clean by using cotton swab.

- Our aim is to avoid causing safety accidents and affecting measurement accuracy.

Caution:

1. Please do not use this product for these people who suffer from otitis external, tympanitis and other ear diseases.
 - It is possible to worsen the affected area.
2. Please do not use this product after swimming or bath or wet ears.
 - It is possible to have low measured temperature value.
3. Do not place waste battery to danger zone.
 - The battery may break.
4. When measuring the ear temperature of human body, the product must be operated in the ear temperature mode.
 - Result in inaccurate measurement result.

Suggestions

1. When you tell the doctor measured body temperature value, please tell the doctor that you measured it with ear thermometer.
2. Please don't force to impact, fall, trample and shake this product.
3. Please do not disassemble, repair and modify this product.
4. Please do not allow liquid (such as alcohol, water- drop, hot water and so on) to enter the product body because of this product is not water resistant.
5. The product must be kept clean in a dry place.
6. If you find any problems, please contact the sales, you can not repair the product by yourself.
7. Please do not use it under the environment of electromagnetic interference.
8. Please deal with the waste and residue of this product at the end of the service life according to local laws and regulations.

Common sense about body temperature

The comparison of different measurement methods.

The measured values are different if we use different measurement methods. The WHO provides normal human body temperature reference values, please see below table about the specific temperature difference.

MEASUREMENT METHODS	NORMAL BODY TEMPERATURE
Rectal temperature	36,6 °C ~38,0 °C
Oral temperature	35,5 °C ~37,5 °C

Axillary temperature	34,7 °C ~ 37,3 °C
Cochlear temperature	35,8 °C ~ 38,0 °C
Forehead temperature (equivalent Oral temperature)	35,5 °C ~ 37,5 °C (PG-IRT1603 measured value)

THE CHANGES IN HUMAN BODY TEMPERATURE

The human body temperature is basically constant, but it is not totally changeless, the human body temperature is constantly changing in a day, the details as follows:

AT NIGHT

Lowest Body temperature is lowest because of sleep and decreasing activity (below 37 °C)

IN THE MORNING

Higher From warm bed to the lower temperature room in the morning, the whole body's muscles get contractions and produce heat.

AT NOON

Highest After lunch, human body reaches the highest temperature and the body will adjust naturally.

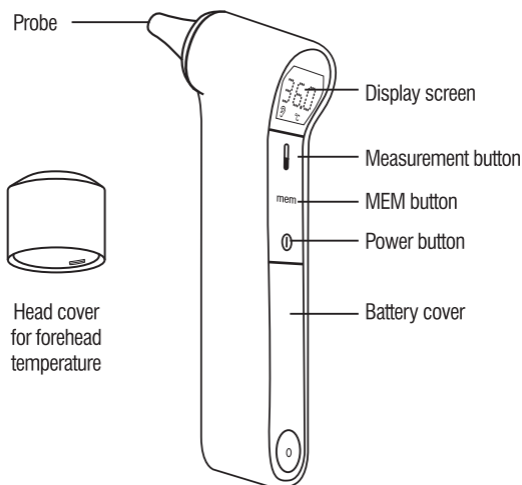
THREE OR FOUR O'CLOCK IN THE AFTERNOON

Lower Due to physical exertion, blood sugar decreased.

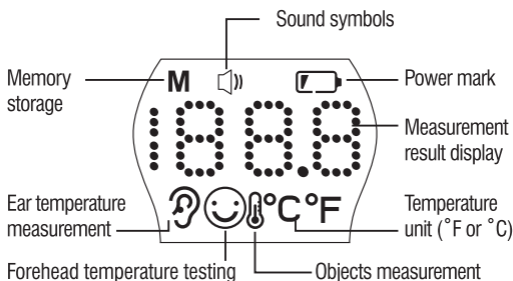
IN THE EVENING

Lowest Due to the sun down, room temperature goes down.

Product layout



The screen display marks description

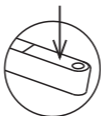


Battery installation explanation

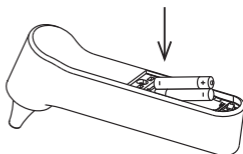
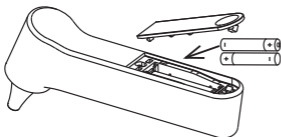
Battery installation flow:

1. Press battery cover, the battery cover will bounce automatically.
2. Prepare two pieces of battery with the module of 1.5V AAA batteries (It is recommended to use alkaline batteries), please install it into base of battery according to correct positive and negative poles.

Remove the battery cover under pressure



Use your finger to press down hard on the endpiece of battery "-" for ejecting the battery.



Insufficient power caution: when battery voltage is lack, LCD shows "LO" sign and battery mark is always on, which means you should replace the battery.





WARM PROMPTS

- If you do not use this product for a long time, please take out battery to assure its longevity. The liquid leakage of battery will harm the product; as well as pollute our environment.
- It is recommended to use alkaline batteries.
- The way to handle scrapped battery should match the requirements of local country government and environmental protection organ.




Basic parameter instructions


1.SOUND FUNCTION: TURN ON/OFF

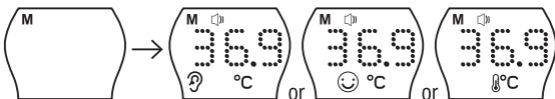
- 1) In the power-on state, press “**mem**” key to set the sound on or off.
- 2) Press “**mem**” button, LCD screen will show “” it means the sound works, meanwhile we will hear a short beep sound.
- 3) Press “**mem**” button again, “” will disappear it means the sound is off.

2.THE SWITCH °F or °C

In off status, long press “**mem**” button for six seconds, it can switch between Fahrenheit degree (°F) and Celsius degree (°C). Wait for 8 seconds to turn on the product automatically or press “” to turn off the product directly.

3.MEMORY STORAGE FUNCTION

In off status, press “**mem**” button, the product can read and save 9 sets of measurement values in order (as below picture shows). It will turn off automatically without operating for 30 seconds or press “” button to turn off this product with your hands.



4.BACK LIGHT STATUS INSTRUCTIONS

When measured temperature is $< 34,0\text{ }^{\circ}\text{C}$, it shows LO with red backlight.

When measured temperature value is $34,0\text{ }^{\circ}\text{C} \sim 37,1\text{ }^{\circ}\text{C}$, it shows green backlight.

When measured temperature value is $37,2\text{ }^{\circ}\text{C} \sim 38,1\text{ }^{\circ}\text{C}$, it shows orange backlight.

When measured temperature value is $38,2\text{ }^{\circ}\text{C} \sim 43,0\text{ }^{\circ}\text{C}$, it shows red backlight.

When measured temperature value is $> 43,0\text{ }^{\circ}\text{C}$, it shows red backlight and shows HI.

WARM PROMPTS: This function is for reference only.

Introduction of Measurement methods



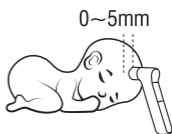
Please pull backwards the ear of your child who is within one year old

Ear temperature



Please pull these persons' ear slightly up and backwards (over one year old children and adults)

Ear temperature



The center of forehead

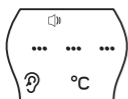
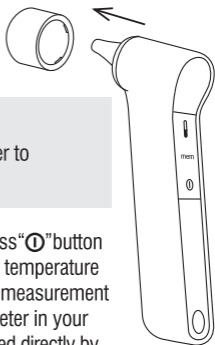
Forehead temperature

GB 1. EAR TEMPERATURE MEASUREMENT

WARM PROMPTS:

Remove the head cover of thermometer to measure ear temperature.

- 1.1 After removing head cover, please press “**⓪**” button to turn on this product to enter the ear temperature measurement mode, LCD will display measurement value last time. Then put the thermometer in your ear, the ear temperature can be measured directly by pressing “**👆**” button.
- 1.2 After 1 second, you can see the measurement result.



When LCD is flashing, we are waiting for starting measurement



Measurement result



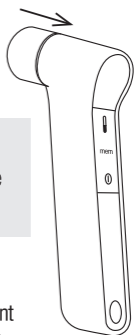
NOTE: If you have not heard the beep sound, it means that the temperature measurement is not yet complete. Please do not remove the thermometer probe from ear canal at this time. (If you have turned off the sound indication, it will have no sound indication.)

2. FOREHEAD TEMPERATURE MEASUREMENT

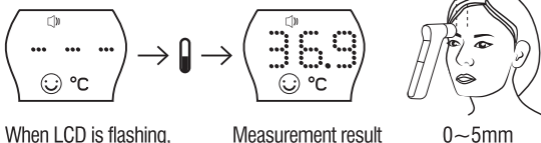
WARM PROMPTS:

Install the head cover of thermometer to measure forehead temperature.

- 2.1 After installing head cover press “**⓪**” button to turn on this product to enter the forehead temperature measurement mode, LCD will display measurement value last time. When the thermometer is aimed at the forehead where measurement distance should be 0~5mm, the forehead temperature can be measured directly by pressing “**👆**” button.



2.2 After 1 second, you can see the measurement result.



When LCD is flashing,
we are waiting for
starting measurement

Measurement result

0~5mm

NOTE: If you did not hear the beep sound, which represents the temperature measurement has not yet been completed. Please do not remove the thermometer probe from forehead at this time. (If you have turned off the sound indication, it will have no sound indication.)

3. OBJECT TEMPERATURE MEASUREMENT

WARM PROMPTS:

The installation of the head cover for forehead temperature has no influence to object measurement.

3.1 Long press “**I**” button to enter the object measurement mode for 6 seconds, and then aim the thermometer at the object, the temperature of the target object can be measured directly by pressing “**U**” button.

3.2 After 1 second, you can see the result of the measurement.



When LCD is flashing,
we are waiting for
starting measurement

Measurement result

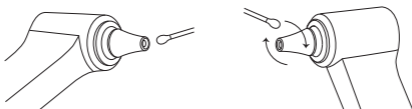
NOTE: If you did not hear the beep sound, which represents the temperature measurement has not yet been completed. Please do not remove thermometer probe from target object at this time. (If you have closed the sound indication, it will not have sound indication.)

Product cleaning methods instructions

In order to ensure the precise measurements, it recommended to clean the device after each use.

Please use cotton swab to dip 70% alcohol to wipe off the thermometer probe and remove the residue and dirt.

GB We recommend you to clean the probe at least for 5 seconds. Then wipe the other components with a soft and dry cloth for 10 seconds at least. After cleaning, please ensure that there is no visible dirt or residue on your thermometer, wait 10 minutes before measuring.



WARM PROMPTS:

Why do you need to do a cleaning job after each measurement? Because infrared temperature adopts highly sensitive technique to detect the temperature of the target object, not only will any earwax and dust paste affect the measurement accuracy, but also to cause bacteria infection. So we suggest that you should do cleaning job well as the picture shows after each use.

Frequently Asked Questions and Solutions

Long press “**⓪**” button to enter the object measurement mode for 6 seconds, and then aim the thermometer at the object.

SCREEN DISPLAY	REASONS	SOLUTIONS
HI	When the target object temperature is higher than measurement range which in the ear temperature mode is more than 43.0 °C, the LCD screen will show "HI" indication.	1. When the measurement probe is not properly placed in the ear canal or if the measurement distance is too far during the measurement process, the measurement result may be low.
Lo	When the target object temperature is lower than measurement range which in the ear temperature mode is less than 34.0 °C, the LCD screen will show "Lo" indication.	2. When measurement probe is dirty, the measurement value may be low; we should use a cotton swab dipped in alcohol to clean the measurement probe properly.

Er.H	This product has an upper limit of operating temperature of 40 °C. When the ambient temperature exceeds this temperature point, the LCD screen will display an error message "Er.H".	When you operate this product, the environment temperature cannot be greater than 40 °C.
Er.L	This product has a lower limit of operating temperature of 10 °C. When the ambient temperature exceeds this temperature point, the LCD screen will display an error message "Er.L".	When you operate this product, the environment temperature can not be lower than 10 °C.
Err	When the environment temperature changes rapidly about 5 degrees, it will show "Err" during measurement in object temperature mode, then shutdown automatically.	When it shows "Err", please place this product and keep steady in current environment for 30 minutes before next measurement.

🔊) When the operation is wrong, when the sound is turned on, the thermometer reads the value and immediately reports it (A short beep will be heard.)

Troubleshooting

PHENOMENONS	REASONS	SOLUTIONS
When the power is turned on, the screen can not be displayed.	The battery is exhausted.	Replace the new battery.
	The battery polarity is wrong.	The battery polarity is the same as the battery case.
The measurement temperature is low.	The measurement position is not correct.	Measure the temperature correctly according to the instructions.
	There are dirt stuff in the sensor or ear canal.	Please clear the dirt before the measurement.
Big temperature fluctuations with continuous measurement.	The measurement interval is too small.	The interval for each measurement should be above 10 seconds.

Specifications of the product

Product name: Infrared Ear/Forehead Thermometer

Model number: PG-IRT1603

Product appearance dimensions: 31×175×72mm

Product weight: about 77g (except battery)

Measuring range: 34,0 °C – 43,0 °C (93,2 °F-109,4 °F)

Object temperature: 0 °C – 93,2 °C (32 °F-199,7 °F)

Resolution ratio: 0,1 °C/°F

Measurement Location: laboratory

Accuracy: (35,0 °C~42,0 °C)±0,2 °C, (95,0 °F~107,9 °F) ±0,4 °F,
other temperature ±0,3 °C.

Operation temperature: 10,0 °C~40,0 °C (50,0 °F~104,0 °F)

Relative maximum humidity: 15% RH~93% RH

Atmospheric pressure: 70 kPa~106 kPa

Transportation/storage temperature: -25 °C~55 °C (-13 °F~131 °F)

Relative maximum humidity: 0% RH~93% RH

Atmospheric pressure: 50k Pa~106 kPa

Display screen: LCD display screen, 4 bit numbers and special icons.

Sound: when you turn on the product and ready to measure, a short beep will be heard.

The measurement is finished with a long beep.

System error or fault: short beeps for three times.

Fever alert: short beeps for ten times come with urgency.

Memory: in memory mode, it can record nine temperature numbers.

Automatically shut down: if no operation for 30 seconds, it will shut-down automatically.

Battery: two pieces of 1.5V AAA batteries (alkaline batteries are recommended to use).

1603 Forehead mode:

Clinical bias, Dcb: 0.078

Limits of Agreement, LA: 0.243

Clinical Repeatability, or: 0.069

The reference body site: forehead

Measuring site: forehead

Packing parts list:


1. Main body
2. Product manual
3. Plastic case

GUIDANCE AND MANUFACTURER'S DECLARATION–ELECTROMAGNETIC EMISSIONS		
<p>The Model PG-IRT1603 Infrared Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the Model PG-IRT1603 Infrared Thermometer should assure that it is used in such an environment.</p>		
Emissions	Compliance	Electromagnetic environment-guidance
RF emissions CISPR 11	Group 1	The Model PG-IRT1603 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.
RF emissions CISPR 11	Class B	The Model PG-IRT1603 Infrared Thermometer is used in home and it's powered by DC 3V
Harmonic emissions IEC 61000-3-2	N.A.	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	N.A.	

GUIDANCE AND MANUFACTURER'S DECLARATION – ELECTROMAGNETIC IMMUNITY			
<p>The Model PG-IRT1603 Infrared Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the Model PG-IRT1603 Infrared Thermometer should assure that it is used in such an environment.</p>			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Electro-static discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15KV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15KV 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, 50/60Hz	30 A/m, 50/60Hz	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE U_T is the a.c. mains voltage prior to application of the test level

GUIDANCE AND MANUFACTURER'S DECLARATION – ELECTROMAGNETIC IMMUNITY
<p>The Model PG-IRT1603 Infrared Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the Model PG-IRT1603 Infrared Thermometer should assure that it is used in such an environment.</p>

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz 6 Vrms 150 kHz to 80 MHz outside ISM bands	N/A	Portable and mobile RF communications equipment should be used no closer to any part of the Model PG-IRT1603 Infrared Thermometer, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
Radiated RF IEC 61000-4-3	10 V/m 80 MHz to 2.7 GHz	10 V/m	<p>Recommended separation distance</p> $d = \left[\frac{3.5}{V_1} \right] \sqrt{P}$ $d = \left[\frac{3.5}{E_1} \right] \sqrt{P} \quad 80\text{MHz to } 800\text{MHz}$ $d = \left[\frac{7}{E_1} \right] \sqrt{P} \quad 800\text{MHz to } 2.7\text{GHz}$ <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). 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 propagation is affected by absorption and reflection from structures, objects and people.

a The ISM (industrial, scientific and medical) bands between 0,15 MHz 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 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.

b The compliance levels in the ISM frequency bands between 150 kHz and 80 MHz and in the frequency range 80 MHz to 2,7 GHz are intended to decrease the likelihood that mobile/portable communications equipment could cause interference if it is inadvertently brought into patient areas. For this reason, an additional factor of 10/3 has been incorporated into the formulae used in calculating the recommended separation distance for transmitters in these frequency ranges.

c 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 Model PG-IRT1603 Infrared Thermometer is used exceeds the applicable RF compliance level above, the Model PG-IRT1603 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 Model PG-IRT1603 Infrared Thermometer.

d 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 MODEL PG-IRT1603 INFRARED THERMOMETER

The Model PG-IRT1603 Infrared Thermometer is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Model PG-IRT1603 Infrared Thermometer can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Model PG-IRT1603 Infrared Thermometer as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2.7 GHz
	$d = \left[\frac{3.5}{V_1} \right] \sqrt{P}$	$d = \left[\frac{3.5}{E_1} \right] \sqrt{P}$	$d = \left[\frac{7}{E_1} \right] \sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	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.



NO discomfort
waiting
crying

Warranty card

Serial No: _____

Date of purchase: _____

Sale company: _____

Contact number: _____

Address of sales company: _____



Warranty card

Serial No: _____

Date of purchase: _____

Sale company: _____

Contact number: _____

Address of sales company: _____

Attention: please contact our distributor when the device needs maintenance. Please keep the packing of the product so that it could be used when returning the device to maintenance.

The period of host free for warranty service is 2 years.

During the warranty period, we will decide to repair or replace damaged parts or accessories according to the case.

The following case does not include the warranty.

- Damage caused by not correctly operating the product according to the manual.
- Damage caused by accident.
- The user disassembles and changes the product without authorization.
- No invoice, warranty card, the product serial being torn or can not identify.



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