The Parenting Garden
Where easier parenting grows

Infrared thermometer

FDIR-V1

User's Manual

1. SUMMARY OF INFRARED THERMOMETER

Thank you very much for choosing our Infrared thermometer. It is a high technology medical thermometer for measuring eardrum and forehead temperature of human body via infrared rays emitted from the eardrum and skin surface, which will allow you to learn you and your family's health status easily and quickly. A corrected way to measure is very important to obtain the precise temperature. To ensure proper use, please be sure to read this user manual carefully.

- In order to use this product correctly, please read the user manual before use.
- In order to properly use this product, please carefully read the full text of this manual before using, in particular the "safety precautions" section.
- Please keep the instructions on the side for easy checking.
- Please keep this manual safely in case of losing.

2. SAFETY PRECAUTIONS

Warning

Conducting self-diagnosis and/ or treatment based on the measurement results can be dangerous. Be sure to follow the instruction of your doctor. • Self-diagnosis may worsen the symptoms.
If the infrared sensor becomes dirty, lightly wipe it with a soft dry cloth. • If you wipe it with a tissue paper or a paper towel, the infrared sensor will be damaged and may be able to measure correctly.
The patient who suffer the external otitis and media otitis or other ear diease that will be prohibited to using the product to measure ear temperature. • It may worsen the lesion.
Do not touch the infrared sensor with finger or breathe on it. • The infrared sensor may become dirty and correct measurement result may not be possible.
Store the unit out of children's reach. • Children may try to measure by themselves and cause damage to the ear. If a child accidentally swallows a battery or other component, immediately consult with the doctor.
If there is a difference in temperature between the place where the unit is stored and the place where your are going to measure, leave the unit in the room where you are going to use form more than thirty minutes, then measure. • Correct measurement result may not be possible.
Don't throw the battery into fire. • May be cause the battery explosion.

Notice

Do not forcibly insert the probe in the ear. If you fell abnormal such as pain during measurement, stop using the unit. • It may injure the external auditory canal.
If the ear is cooled such as being exposed to the cold for a long period, wait until the ear is warmed up, then measure. • The measured result may be indicated low when you an ice bag or immediately after coming home from outside in winter.
Do not use the unit when the external auditory canal is wet such as after swimming or a bath. • It may cause measurement inaccurate.
When you inform the doctor of your temperature, make sure to tell him/ her that you measured the temperature in the ear.
Do not use this unit other than for measuring the temperature in the human ear.
Do not measure the sites of scarred tissue or tissue compromised by skin disorders, because sensing body temperature from sites of scarred tissue or tissue compromised by skin disorders.
Do not measure the site of forehead temperature if that patients has trauma on forehead.
Do not measure when the measured sites (forehead) is exposed to direct sunlight, fireplace heat, cold compress therapies, air conditioner flow. If you are under these cases, please leave the status and wait for 30 minutes to measure.
Do not apply strong shock to, drop, step on, or vibrate the main unit.
Do not use a portable phone near the unit.
Do not disassemble, repair, or modify the unit.
After you do some exercise, eating and bathing, you should stay still indoor about 30 minutes before measurement.
The thermometer maintenance improper or improper use will cause harm to human body and the component aging function will cause function loss.
The main unit is not waterproof. Be sure that no liquids (alcohol, water, or hot water) get into the main unit.
To make the measurement data reliable and stable, when ambient temperature varies a lot, the thermometer should be placed indoors for about 30 minutes before using.
When we measure somebody continuously, the temperature should be measured every minute, if you need to measure yourself Continuously for a short time, there are some slight errors when you read the temperature ,which is a normal phenomenon. At this time, we should choose the average. We recommend that you measure yourself continuously maximum of three in a unit of time, and because the temperature of the human will conduct to the thermometer, it may affect the accuracy of measurement.
There is no absolute standard about the temperature of the human, so please try to collect the recording of Individual temperature in the usual, as a reference for having a fever or not.
Do not measure if that patient is treated with certain drug therapies.
In order to ensure the accuracy of measurement data, please don't take measurement of body temperature in strong electromagnetic interference environment (such as microwave, high frequency equipment operation environment).

Recommendation

Don't use this thermometer for other purposes.
It is forbidden to leave the product exposed to any chemical solvent, direct sunshine or high temperature.

3. INTENDED USE

Except for measurement of ear and forehead temperature, don't use this product for other purposes. It can be used for anybody, e.g. for new-born, for children and for adults.
For the safety reason, children or the baby's body temperature must be measured by parent or adults. Child or baby can not operate thermometer.

4. TEMPERATURE MEASUREMENT MODE AND RANGE DESCRIPTION

The infrared thermometer has the following measurement mode:

1) Forehead temperature measurement mode -- measure the skin surface of human forehead's temperature accurately, take the place of traditional mercury thermometer and electrical thermometer.
2) Eardrum temperature measurement mode—measure the skin surface of human eardrum's temperature accurately, take the place of traditional mercury thermometer and electrical thermometer

Normal temperature range for different measuring position

Measuring position	Normal temperature (°C)	Normal temperature (°F)
Anus	36.6-38.0	97.9-100.4
Oral	35.5-37.5	95.9-99.5
Armpit	34.7-37.3	94.5-99.1
Ear	35.5-37.8	95.9-100
Forehead	35.8-38.0	96.4-100.4

Normal Forehead Temperature Range Based of Different Ages:

Age Range	Normal temperature (°C)	Normal temperature (°F)
0-2 years old	36.4-38.0	97.5-100.4
3-10 years old	36.1-37.8	97.0-100.0
11-65 years old	35.9-37.6	96.6-99.7
> 65 years old	35.8-37.5	96.4-99.5

NOTE: The normal temperature and difference between the different body parts is individual. The define yous, measure your temperature for a least 2 weeks at the same ear cannal, forehead position and time.

NOTE: When consulting your physician, communicate that the infrared thermometer FDIR-V1 temperature is a temperature measured which position, note the individual's normal infrared thermometer FDIR-V1 temperature range as additional reference.

NOTE: Because the forehead temperature is affected obviously by the external environment(eg: environment, air convection and skin tone, etc),we advice that you take the forehead temperature only as reference. When you have a doubt about the measurement result, please use the ear temperature to confirm it.

5. FEATURE

Functional diversity

5-in-1 unique design can take ear/ forehead/ object temperature/ ambient temperature and clock with a clock display, i.e. five-in-one.

High efficiency

Instant measurement it provides you the reading in one second.
This product has passed the European Union and Chinese the infrared thermometer performance standards for measuring clinical requirements, measuring clinical repeatability is no more than ±0.3℃.

Convenient and cheap

Convenient, economic, probe cover free and easy to use.

Simple to use

Automatically converts forehead temperature display into ear temperature display with the removal of the front cover. Simple to use

High body temperature indicator

When the temperature reading exceeds 38.0℃(100.4℉) , the thermometer will send out "Beep-Beep-Beep-"for a long one followed by two short ones, and the " ☹ " icon will go on .

A wide range of temperature

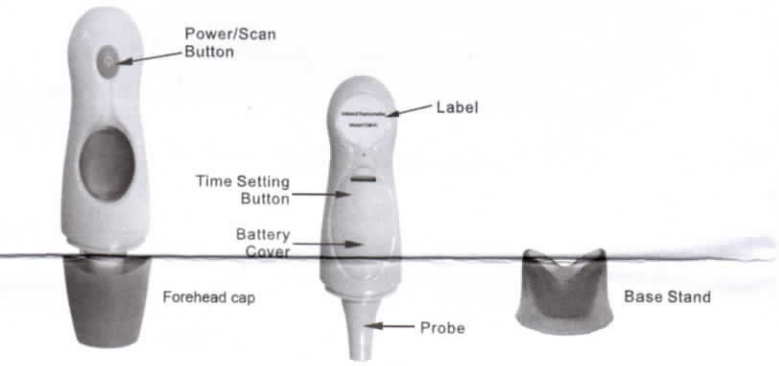
Body measurement mode: the measurement range 32℃-42.9℃.
Object temperature measurement mode: the measurement range 0℃-100℃.

Automatic display of memory.

Every time you turn it on, the previous reading will be shown.

6. OVERALL DESCRIPTION

Main component including



LCD display description

88.8	Temperature value
	Measuring in progress
	Object temperature mode
	Ear Scan Mode
	Forehead Scan Mode
	High body temperature symbol
°C	Temperature unit : ℃ or ℉
°F	Clock mode symbol
	Low battery indication icon
	Last Memorized Temperature Display

7. OPERATION INSTRUCTION

【Preparation】

1) Check battery
Replace the batteries to ensure power supply if there is low voltage icon for the thermometer.
2) Check thermometer
When you press the " ⏻ "button, the system will have self testing of software and hardware. If there are problems, LCD will display "Err" symbol.
3) In order to make the accurate measuring result, put the thermometer in the measurement environment for 30 minutes.
4) Accuracy of unexpected fluctuations in ambient temperature may decrease the measurement results. When the thermometer at the same measurement position display at different ambient temperature, or test temperature in front of the air conditioner, it will not be able to obtain accurate results.
5) If you want measure forehead temperature, clean forehead and arrange hair, make sure the forehead is naked and clean, in order to ensure the accuracy of measurement; If you want measure ear temperature, clean subject ear cannel, make sure the ear is clean.

【Time and Ambient Temperature】

Set the when you use the device for the first time or when you reinstall the battery. Then, the function of displaying the environmental temperature and time will automatically start up.

1. Method of setting

Open the battery cap on the back, press the [Time Setting] button to start hour (hour number flashes) and minute(minute number flashes) setting, and Press the button of scan to adjust the numbers.

2. Mode of display

When time has been set, the thermometer will display the time and environmental temperature in turns while not used to measure body temperature.

【Instruction for use】

Taking Temperature in Ear Temperature Mode

1. When the system is in the state of time/environmental temperature display, press the button of scan, and the last temperature measurement will be displayed; then after "Beep-Beep",the system enters into the mode of measurement.
2. Remove the forehead cap, and the thermometer enters into the ear measuring mode.
3. When measuring ear temperature, insert the probe into the ear first, then press the [Scan] button. One second later you will hear "Beep", and you can remove the thermometer. The measurement is completed.
4. When the measured temperature exceeds 38.0℃(100.4℉) , the thermometer will send out "Beep-Beep-Beep-" a long one and two short ones, and the display will show the icon of fever.

NOTE:
1. Keep the probe surface clean, otherwise the measurement can't be accurate.
2. Clean the probe with clean cloth or paper moistened with water or alcohol, and conduct measurement after the water on the surface of the probe all evaporates.

TEMPERATURE TAKING HINTS

- *The right ear temperature may differ from the left ear. Therefore, always take the temperature in the same ear.*
- *The ear must be free from obstruction or excess earwax build-up to take an accurate reading.*
- *External factors may influence ear temperatures, including when an individual has:*
  - *been lying on one ear or the other*
  - *had their ears covered*
  - *been exposed to very hot or very cold temperatures, or*
  - *been recently swimming or bathing.*

In these cases, remove the individual from the situation and wait 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.*
- *Don't use the thermometer outdoors.*

Taking Temperature in Forehead Temperature Mode

1. When the system is in the state of time environmental temperature display, press the [Scan] button and the last temperature reading will be displayed. Then, the system will go "Beep-Beep" and enter into the mode of measurement.
2. Make sure the forehead cap is on, and press the button of scan directly to measure the forehead temperature.
3. When measuring the forehead temperature, keep pressing the button of scan, put the tip of the probe on your forehead, be sure the correct temperature has been taken, then release the button of scan, you can get the result.
4. When the measured temperature exceeds 38.0℃(100.4℉), the thermometer will send out "Beep—Beep-Beep", a long one and two short ones, and the display will show the icon of fever.

TEMPERATURE TAKING HINTS

- *Before take the temperature, please fix the forehead hair to prevent measured deviation.*
- *The sweat on head or cosmetic can affect the accuracy of measurement, please maintain the cleanness of the forehead when measuring.*
- *It is normal that there may be temperature difference depending on various skin types and color, since different skin type will reflect different voltage of infrared ray.*
- *Don't use the thermometer outdoors.*

【Taking Temperature in Object Temperature Mode】

In the mode of shutdown, keep press the [Power/Scan] button until the "⌂" showing on the LCD, at this time you into the object temperature mode.
It can't be changed between the forehead and ear temperature in this mode.

TEMPERATURE TAKING HINTS

- *For heat-insulated object, please don't measure the surface.*
- *For the hot liquid, please do not directly measure the surface, because the hot steam fog can condense in the sensor lens and cause the measurement deviation.*

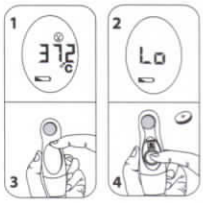
【Changing the Measurement Unit】

The infrared thermometer can display temperature measurements in either ℃ or ℉.
The operation how to change the measurement unit between ℃ and ℉ as:
After all icons displaying and when the picture " – ℃" or "–℉" displaying, please press the scan button, turn the ℃ or ℉ to ℉ or ℃. Wait for 3 seconds and the thermometer will automatically enter the measurement mode.

Note: FDIR-V1 provides both Fahrenheit and Celsius readings in countries where the Fahrenheit units are adopted, otherwise it provides only the Celsius unit. It isn't a bad one if your product can't change ℃ or ℉.

【Battery installment and replacement】

1. When the quantity of electric charge is not sufficient, the icon of low battery will appear on the lower part of the screen. Though the battery still can be used, it would be perfect to replace it.(Refer to the Picture 9.1)
2. When the quantity of electric charge of the battery is lower than the minimal value, "Lo" symbols will be displayed on the screen, and battery icon flashes and the sound of "Beep" is sent out (Refer to the Picture 9.2).Unless you change a new battery, you can not use the thermometer to conduct measurement.
3. Operation of changing battery.
4. Take out the old battery: open the battery cap (Refer to the Picture 9.3). Put a new battery on: put on a CR2032 lithium battery with cathode downward into the battery seat. (Refer to the Picture 9.4)



Notice:

- Please observe the related national laws of disposing the abondoned battery and don't litter to the garbage can.
- Please take out the battery if the device is not used for long periods of time.
- Please don't put the battery in the fire.

To protect the environment, dispose of empty battery at your retail store or at appropriate collection sites according to national or local regulations.

8. CARE AND CLEANING

Probe tip (lens) is a most precise part in the thermometer. Please keep clean and entirety in order to assure the accuracy of figure.
The probe tip and lens are the most delicate part of the thermometer. It has to be clean and intact to ensure accurate readings.
Please use the ways to clean the probe as follows:

- Very gently wipe the surface with a cotton swab or soft cloth moistened with alcohol. After the alcohol has completely dried out.
- If the lens is damaged, contact the distributor.

Clean the unit body:

- Use a soft, dry cloth to clean the thermometer display and unit body.
- If very dirty, use a soft with alcohol to cleaning.

NOTES:

- Don not use abrasive cleaners.
- Don't use other non-recommended methods to perform disinfect.
- Non-waterproof, don't use the abrasive cleaner to clean the product, don't drop the thermometer in the water or the other liquid.

9. MAINTENANCE

1) We do not authorize any institution or individual to maintain and repair of the product. If you suspect that the products have any questions, please contact the manufacturer or distributor to handle the case.
2) The user must not attempt any repairs to the device or any of its accessories. Please contact the retailer for repair.
3) Opening of the equipment by unauthorized agencies is not allowed and will terminate any claim to warranty.

WARNING: No modification of this equipment is allowed!

10. CALIBRATION

The thermometer is initially calibrated at the time of manufacture. If this thermometer is used according to the use instruction, periodic calibration is not required. If any time your question the accuracy of measurement, please contact distributor or manufacturer, the contact information see last page.

11. STORAGE

1) Don't put the thermometer under the sunshine, high temperature and moist environment or someplace which maybe get in touch with fire or is vulnerable to vibration.
2) Take out the battery if don't use the device in a long time.

12. ACCESSORIES

Only use original accessories. Check that the contents of the delivery are complete.

Quantity	Parts
1pc	FDIR-V1 device
1pc	CR2032 battery(install in the thermometer)
1pc	User Manual
1pc	Base stand

13. TROUBLE-SHOOTING

Troubles or error message	Checklists or situation	Countermeasures or solution
No response/ Automatically reset	The batteries are used up?	Replace new batteries.
	Battery in wrong polarity or type?	Take out the batteries and replace new ones.
	Poor battery contact	Take out batteries and reinsert it correct.
The thermometer show the symbol "Hi" or "Lo" 	Temperature hampered by an air flux.	Please leave the status and wait for 30 minutes to measure. Re-measure according to the manual.
	In the forehead measurement mode: --Temperature readings too close together. -- Measured the other object, such as the sunlight, the air from the fireplace. Hi: Higher than 42.9℃;	
	In the object measurement mode: --Temperature readings too close together. -- The object temperature is higher than 100℃. Hi: Higher than 100.0℃;	
The thermometer show the symbol "Lo" 	The hair and sweat prevent the temperature achievement.	
	Temperature hampered by an air flux.	
	In the forehead measurement mode: -- The measuring distance is too far. -- Measured the other object, such as the air from the air conditioner. Lo: Less than 32.0℃	
	In the object measurement mode: -- The measuring distance is too far. -- Have water vapor condenses on the lens. Lo: Less than 0℃	
	The ambient temperature is beyond of range of measurement (10℃-40℃ or 50℉-104℉)	Keep the thermometer in the room Whose Temperature is (10℃-40℃ or 50℉-104℉) for 30 minutes
	The sensor or hardware is damaged	Excluding the possibility of temperature allowance first ,then send the device to your dealer for repair
	Low batter, but you can still use it	Keep an eye on power and continue to use.
	Lower battery, however you can't use it	Replace the new battery.

14. SPECIFICATIONS

Device name	Infrared Thermometer
Model	FDIR-V1
Measurement mode	Forehead, ear and object temperature measurement modes
Power supply	d.c.3V, CR2032 batteries
Measuring range:	32.0-42.9℃ (89.6-109.2℉)
Measuring range:	For human body temperature: 32.0℃-42.9℃ (89.6℉-109.2℉) For object temperature: 0℃-100℃ (32℉-212℉)
Measuring accuracy: (At laboratory conditions)	For human body temperature: ± 0.2℃/0.4℉ 35. 5℃ -42.0℃(95.9℉-107.6℉) ± 0.3℃/0.5℉ for other ranges For object temperature: ±1.0℃/ 1.8℉ within 15-60℃(59.0℉-140.0℉); for other range , ±2.0℃/ 3.6℉
Clinical repeatability:	Within ±0.3℃
Resolution of display	0.1℃/0.1℉
Operation condition	15.0℃-40.0℃(59.0℉-104℉) Relative humidity: 20% to 95% RH
Transportation and storage condition	-25-55℃(-13℉-131.0℉), Relative humidity ≤95%RH,
Size	133.8×32.7×23mm
Weight	39g
High body temperature hint	≥38.0℃(100.4℉)
Grade of waterproof	IP22
Electric shock	Internally powered ME equipment
Applied part	Type BF applied part, including the whole unit
Mode of operation	Continuous operation
Note: Not intended to be sterilized. Not for use in an OXYGEN RICH ENVIRONMENT	

*The above specifications are subject to change without prior notice.

Note: ASTM laboratory accuracy requirements in the display range of 36 to 39℃ (96.8 to 102.2℉) for this thermometer is ±0.2℃(0.4℉), whereas for mercury-in-glass thermometer, the requirement per ASTM standards E 667-86 is ±0.1℃(0.2℉).

15. STANDARD LIST

Famidoc Technology Co., Ltd declares that the FDIR-V1 complies with following applicable standards:

EN ISO 15223-1	Medical device – Symbols to be used with medical device labels, labeling and information to be supplied – Part 1: General requirements
EN 1041	Information supplied by the manufacturer with medical devices
EN 60601-1	Medical electrical equipment Part 1: General requirements for basic safety and essential performance
EN 60601-1-2	Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests

EN 12470-5	Clinical thermometers – Part 5: Performance of infra-red ear thermometers (with maximum device)
EN 62304	Medical device software - Software life-cycle processes
EN ISO 10993-1	Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process
ASTM E 1965	Standard Specification for Infrared Thermometer for Intermittent Determination of Patient Temperature

16. DISPOSAL

Dispose of the device in accordance with the regulation applicable at the place of operation. Dispose of at public collection point in the EU countries – 2002/96/EC WEEE Directive.
If you have any queries, please refer to the local authorities responsible for waste disposal.

NOTES:

- Handing of battery and wastes method, please act according to the native law to proceed to handle.
- Take out the battery if you are not going to use the unit for a long time.

To protect the environment, dispose of empty battery at your retail store or at appropriate collection sites according to national or local regulations.
Dispose of at public collection point in the EU countries – 2006/66/EC Directive.

17. NORMALIZED SYMBOLS

	Attention: see Instructions for use!
	Applied part of type BF
	The batteries and electronic instruments must be disposed of in accordance with the locally applicable regulation, not with domestic waste.
CE 0120	Complies with the European Medical Device Directive (93/42/EEC), Notified Body is SGS United Kingdom Ltd.
	Manufacturer information: The manufacturer Famidoc Technology Co., Ltd.
EC REP	Authorized representative in the European Community.
IP22	IP code of the device: this device's grade of against ingress of solid foreign objects -- ≥12.5mm diameter (and the against access to hazardous parts with finger); the grade of waterproof is dripping (15° tilted).
LOT	Batch code

18. Electromagnetic Compatibility (EMC) Tables

Guidance and manufacturer's declaration - electromagnetic emissions		
The FDIR-V1 device is intended for use in the electromagnetic environment specified below. The customer or the user of the FDIR-V1 should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR11	Group 1	The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to causes any interference in nearby electronic equipment.
RF emissions CISPR11	Class B	The FDIR-V1 device is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC61000-3-2	Not applicable	
Voltage fluctuations/ flickeremissions IEC61000-3-3	Not applicable	

Guidance and manufacturer's declaration — electromagnetic immunity			
The FDIR-V1 device is intended for use in the electromagnetic environment specified below. The customer or the user of the FDIR-V1 should assure that it is used in such an environment.			
Immunity test	IEC 60601 Test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge(ESD) IEC61000-4-2	±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%.

Guidance and - manufacturer's declaration. Electromagnetic immunity			
The FDIR-V1 device is intended for use in the electromagnetic environment specified below. The customer or the user of the FDIR-V1 should assure that it is used in such an environment.			
Immunity test	IEC 60501 Test level	Compliance lev el	Electromagnetic environment - guidance
Conducted RF IEC61000-4-6 Radiated RF IEC 61000-4-3	3V rms 150 kHzto 80 MHz 3V rms 3V/m 3V/m 80 MHz to 2.5 GHz	±6kV contact ±8k Vair	Portable and mobile RF communications equipment should be used no closer to any part of the FDIR-V1 device, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance. $d=1.2\sqrt{P}$ $d=1.2\sqrt{P}$ 80 MHz to 800 MHz $d=2.3\sqrt{P}$ 800MHz to 2,5MHz 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 meters(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:

NOTE1 At 80 MHz end 800 MHz. the higher frequency range applies.
NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation 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 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-V1 device is used exceeds the applicable RF compliance level above, the should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the FDIR-V1.
b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than [Vi] V/m.

Recommended separation distances between portable and mobile RF communications equipment and the FDIR-V1 device.

FDIR-V1 device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the FDIR-V1 device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment(transmitters) and the FDIR-V1 as recommended below, according to the maximum output power of the communication sequipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
Electrostatic discharge(ESD) IEC61000-4-2	150 kHz to 80 MHz $d=1.2\sqrt{P}$	80 MHz to 800 MHz $d=1.2\sqrt{P}$	800 MHz to 2,5 GHz $d=2.3\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	7.8	7.8	3.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, recommended separation distance d in meters(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) accordable to the transmitter manufacturer.
NOTE1 At 80 MHz and 800 MHz. the separation distance for the higher frequency range applies.
NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

19. Software Version

This thermometer's software version is Ver. 2.0.

20. WARRANTY

1. The warranty period for device is one year from date of delivery. In case of a warranty claim, the date of delivery has to be proven by means of the sales receipt or invoice.
2. Repairs under warranty do not extend the warranty period.
3. The following cases are excluded under the warranty
   - All damage which has arisen due to improper treatment, e.g. nonobservance of the user instruction.
   - All damage which is due to repairs or tampering by the customer or unauthorized third parities.
   - Damage which has arisen during transport from the manufacturer to the consumer or during transport to the service centre.
   - Accessories which are subject to normal wear and tear.
4. Liability for direct or indirect consequential losses caused by the unit is excluded even if the damage to the unit is accepted as a warranty claim.

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