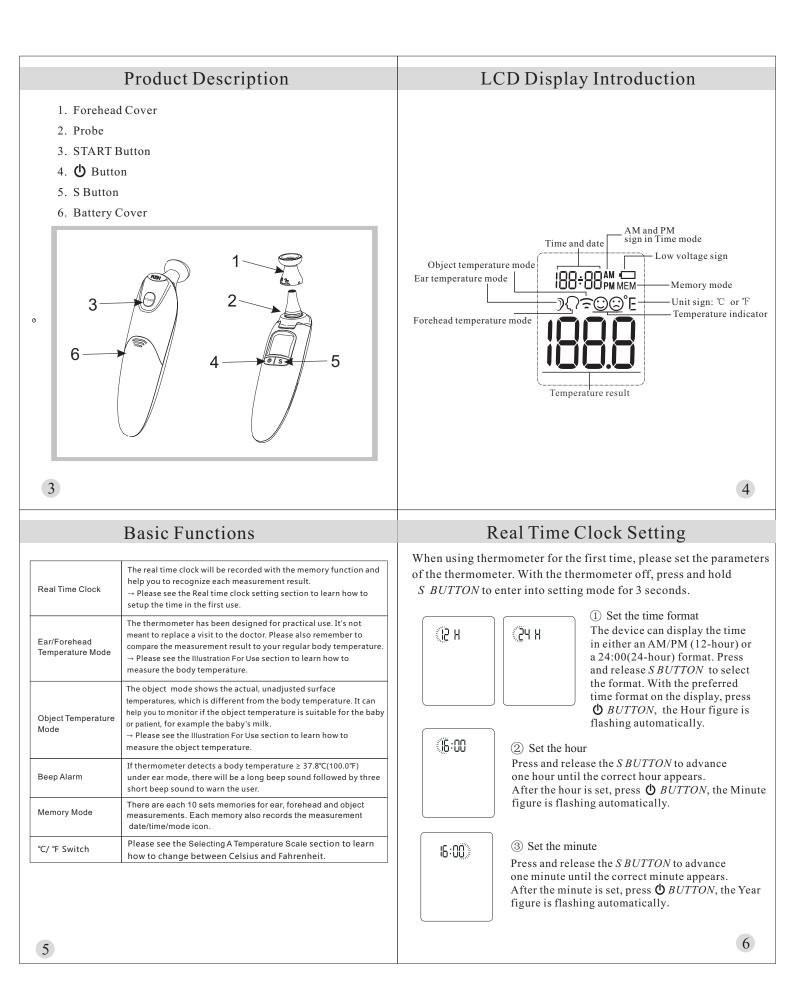
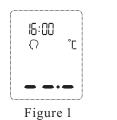
	Document No.: JDET-0504-002 Article No.: 002 Version: F Date of Issue: 2020-01
Contents	Introduction
Introduction.02Product Description.03Lcd Display Introduction.04Basic Functions.05Real Time Clock Setting.06Body Temperature.08Illustration For Use.09Temperature Taking Hints.15Memory Mode.17Selecting A Temperature Scale.18Care And Cleaning.19Battery Replacement.21Specifications.22Troubleshooting.23Calibration.25Service.26Warranty.27FCC Information.28Electromagnetic Compatibility Information.29	<ul> <li>The multi functional thermometer is intended solely for measuring forehead temperature, ear temperature and object temperature. It allows you to quickly and easily measure body temperature and object temperature. It converts the measured heat into a temperature reading displayed on the LCD. Infrared Thermometer is intended for the intermittent measurement of human body temperature by people of all ages.</li> <li>Please read all instructions carefully and thoroughly before using this product.</li> <li>Warning:</li> <li>1. The devices are reusable for home use only. It's not meant to replace a visit to the doctor. Please consult with doctor if you have health concerns.</li> <li>2. There is no gender or age limitation for using multi functional thermometer. This thermometer can be reused by many people.</li> <li>3. Do not allow children to take their temperatures unsupervised, some parts are small enough to be swallowed.</li> <li>4. Never immerse this device in water or other liquids(not waterproof).</li> <li>5. Do not expose the thermometer to temperature extremes (below -25°C/-13°F or over 55°C/131°F) nor excessive humidity (&gt;95%RH).</li> <li>7. Keep the battery away from children.</li> <li>8. Remove battery from the device when not in operation for a long time.</li> </ul>



]	Real Time Clock Setting	Body Temperature
20 19	④ Set the year Press and release the <i>S BUTTON</i> to advance one year until the correct year appears. After the year is set, press <b>Ů</b> <i>BUTTON</i> , the Month figure will appear.	The temperature of a healthy person is affected by various factors: the person's individual metabolism, their age(body temperature is higher in babies and toddlers and decreases with age. Greater temperature fluctuations occur faster and more often in children, e.g. due to growth spurts), their clothing, the ambient temperature, the time of day(body temperature is lower in the morning and
<u>(</u> <u>Ö</u> 8-08	<ul> <li>(5) Set the month</li> <li>Press and release the <i>S BUTTON</i> to advance one month until the correct month appears.</li> <li>After the month is set, press <b>(</b>) <i>BUTTON</i>, the Date figure is flashing automatically.</li> </ul>	increases throughout the day towards evening), the preceding physical and, to a lesser extent, mental activity. It is suggested that users develop the habit of daily measurement, and use this product to establish a private normal temperature range for themselves and their families as a reference for measurement.
08-08	<ul> <li>6 Set the date</li> <li>Press and release the <i>S BUTTON</i> to advance one day until the correct month appears.</li> <li>After the day is set, press  BUTTON to exit the setting mode.</li> </ul>	
7		8
	Illustration For Use	Illustration For Use
<ul> <li>contact your reference of the sear in mind the in which the measure.</li> <li>Users and the the temperature.</li> <li>Before each measure appropriate model of the switch the swit</li></ul>	surement: ach use that the lens is intact. If it is damaged, tailer or the service address. Bat the thermometer needs to have been in the room easurement is taken for at least 30 minutes before thermometer should be in the same ambient easurement, make sure that the device is in the ede for the measurement that you wish to take. <b>ch between ear and forehead mode:</b> e is on, Press and hold the <i>S BUTTON</i> to switch	<ul> <li>Do not use the thermometer on a perspiring or sweating forehead, as this may affect the reading.</li> <li>Remove hat and hair and wait 10 minutes before taking a reading.</li> <li>Install the forehead cap.</li> <li>Press the <i>O BUTTON</i> to switch on the thermometer and the display is activated to show all segments.</li> <li>After self-checking, Figure 1 appears on the display screen with beeps, so you can start a new measurement.</li> <li>Place the probe with the forehead cap fitted on the temple.</li> <li>Press the <i>START BUTTON</i> to start measurement.</li> <li>Move the thermometer smoothly over the forehead to the other temple and back.</li> <li>The measured value appears on the display and the end of the</li> </ul>
between ear mo	de and forehead mode.	measuring is signalled by a short beep.
Note:	forehead temperature:	8. The thermometer will shut off automatically after 60 seconds of inactivity. To prolong battery life, press the <b>O</b> <i>BUTTON</i> to turn the unit off.

• Oils or cosmetics on the forehead may give a lower temperature reading than the actual one. Remove dirt from the forehead before taking a measurement. Wait at least 10 minutes after washing the forehead area before taking a reading.



# Illustration For Use

#### ► To measure ear temperature:

- Some people produce different readings in their left and right ear. In order to record temperature changes, always measure a person's temperature in the same ear.
- As ear wax can affect the measurement, you should clean the ear before measuring if necessary.
- 1. Remove the forehead cap.
- 2. Press the **(b** *BUTTON* to switch on the thermometer and the display is activated to show all segments.
- 3. After self-checking Figure 2 appears on the display screen with beeps, so you can start a new measurement.
- 4. Make sure that the sensor tip and the ear canal are clean. As the ear canal is slightly curved, you have to pull the ear slightly up and backwards before inserting the sensor tip.(See Figure 3)
  - When using the thermometer on infants under age 1, pull the ear up making sure the sensor faces the eardrum.(See Figure 4)
- When using the thermometer on individuals over the age of 1, pull the ear back making sure the sensor faces the eardrum. (See Figure 5).
- 5. Press the START BUTTON to start the measurement.
- 11

### Illustration For Use

#### To measure object temperature:

- 1. Press the 0 button to switch on the thermometer.
- 2. Hold down the **(b** *BUTTON* and the *S BUTTON* simultaneously for 2 seconds to switch to object temperature mode( **?** appears on the LCD display.
- 3. Aim the thermometer at the center of the object you want to measure with a distance of 1 to 2 cm.
- 4. Press the *START BUTTON* to start measurement.
- 5. The measured value appears on the display and the end of the measuring is signalled by a short beep.
- 6. To exit object temperature mode, hold down the **(b)** *BUTTON* and the *S BUTTON* simultaneously again for 3 seconds.
- 7. The thermometer will shut off automatically after 60 seconds of inactivity. To prolong battery life, press the **(b)** *BUTTON* to turn the unit off.

Remarks:

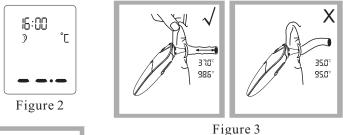
This mode shows the actual, unadjusted surface temperatures, which is different from the body temperature.

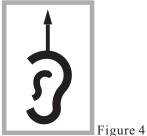
# Illustration For Use

6. The measured value appears on the display and the end of the measuring is signalled by a short beep.

Note: A waiting period of 20 seconds between testing is recommended to avoid excessive cooling of the skin.

7. The thermometer will shut off automatically after 60 seconds of inactivity. To prolong battery life, press the **(b** *BUTTON* to turn the unit off.







# Illustration For Use

Figure 5

#### After measurement:

- 1. Power off: Device will automatically shut off if left idle for more than 1 minute to extend battery life.
- 2. Clean the probe after each use to ensure an accurate reading and avoid cross contamination.
  - (See the section of Care and Cleaning for details.)

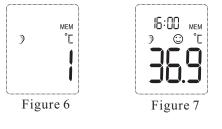
#### Temperature indicator:

- In Ear/Forehead mode:
- If the temperature reading is below 37.8°C (100.0°F), a happy face
   Will be displayed next to the reading.
- If the temperature reading is 37.8°C (100.0°F) or above, a bad face
   iiii will be displayed next to the reading.

#### BackLight:

The display will only be lighted GREEN for 3 seconds when the unit is ready for measurement and a measurement is completed. The backlight design is to the benefit of reading in the night.

Temperature Taking Hints	Temperature Taking Hints
<ul> <li>To ensure that the reading always reflects the body temperature accurately, you need to take account of the following factors which may affect an accurate reading.</li> <li>1. It is important to know each individual's normal temperature when they are well. This is the only way to accurately diagnose a fever. To determine normal temperature, take multiple readings when healthy. Re-measure with a standard digital thermometer for confirmation.</li> <li>2. The probe window of the thermometer is the most delicate part of the device. Do not touch the probe window. The accuracy of the reading may be affected if the probe window is damaged or dirty.</li> <li>3. Users should not drink, eat, or be physically active such as bathing, showering, shampooing and hair drying before/while taking the measurement. In these cases, wait 20 minutes prior to taking a temperature.</li> <li>4. Holding a hand on the forehead for any length of time will affect the temperature reading.</li> </ul>	<ol> <li>Do not take temperature over scar tissue, open sores or abrasions.</li> <li>Don't take a measurement while or immediately after nursing a baby.</li> <li>Do not use this thermometer outdoors.</li> <li>Do not take temperatures with this thermometer near places that are very hot, such as fireplaces and stoves.</li> <li>If the thermometer is stored in a significantly different environment than testing location, place it in the testing location for approximately 30 minutes prior to use.</li> </ol>
15	16
Memory Mode	Selecting A Temperature Scale
<ol> <li>The Memory Mode can be accessed ether in ear mode, forehead mode or object mode: When the thermometer has been turned on and followed by Figure 2 or finished testing, press and hold the <b>(b)</b> <i>BUTTON</i> for three seconds. The letter MEM will appear in the center right corner of the display. (See Figure 6)</li> <li>The thermometer will automatically memorize the last 10 temperature readings. Each memory also records the measurement date/time/mode icon. Each time the <b>(b)</b> <i>BUTTON</i> is pressed, the screen displays past readings that correspond with a number 1-10. The number 1 reflects the most recent reading, while the number 10 reveals the oldest reading stored in memory.(See Figure 7)</li> <li>In the memory mode, the mode icon always exist. The user can press the <i>START BUTTON</i> to take new measurements.</li> </ol>	<ol> <li>Temperature readings are available in the Celsius (°C) or Fahrenheit (°F) scale.</li> <li>With the unit off, press and hold the <i>START BUTTON</i> for 3 seconds to enter into unit changing mode.</li> <li>Press and release <i>S BUTTON</i> to select the unit.</li> <li>When the preferred unit on the display, press  <i>BUTTON</i> to exit the unit changing mode.</li> </ol>



# Care And Cleaning

- 1. The probe window must be kept clean, dry, and undamaged at all times to ensure accurate readings. The accuracy of temperature readings can be affected by damage to the probe window, or the presence of dirt and ear wax on the probe window.
- 2. Fingerprints, earwax, dust and other soiling compounds reduce transparency of the window and result in lower temperature readings.
- 3. The probe window is the most delicate part of the thermometer. To safely clean the window, gently wipe its surface with a cotton swab slightly moistened with isopropyl alcohol and immediately wipe dry with a clean cotton swab. After cleaning, allow at least 5 minutes drying time before taking temperatures.

Note: Do not use any chemical other than isopropyl alcohol to clean the probe window.

- 4. Use a soft, dry cloth to clean the thermometer display and exterior.
- 5. The thermometer is not waterproof. Do not submerge the unit in water when cleaning.
- 6. Store the thermometer in a dry location, free from dust and contamination and away from direct sunlight.
- 7. Periodic cleaning and disinfection of the device following in order to prevent patient cross infection. Please clean and disinfect the thermometer immediately after each use.

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### Battery Replacement

 Replace battery when " 
 " appears in the upper right corner of LCD display. (See Figure 9)

Figure 11

- 2. Slide battery cover down as shown in Figure 10.
- 3. Remove battery and install 2 new AAA alkaline batteries as shown in Figure 11.
- 4. Slide battery cover back on.

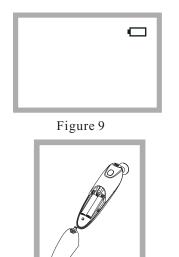




Figure 10

# Care And Cleaning

#### For cleaning :

- 1)Soak a clean soft cloth in drinking water, wring it out and then wipe the thermometer(including probe) no less than 3 times ;
- 2)Then use another clean soft cloth to wipe the residue water on thermometer;
- 3)Put the thermometer in the original packaging.
- For disinfection :
- 1)Soak a clean soft cloth in drinking water, wring it out and then wipe the thermometer(including probe) no less than 3 times ;
- 2)Then use another clean soft cloth to wipe the residue water on thermometer ;
- 3)Using a clean soft cloth dipped in 70% medical alcohol, wipe the probe 3 times, at least one minute for each time.
- 4)Using a clean cotton swab dipped in 70% medical alcohol, wipe the sensor window 3 times ;
- 5)Wait at least 10 minutes to let the alcohol volatilization and then put the thermometer in the original packaging.
- 8. Ensure that children do not use the instrument unsupervised; some parts are small enough to be swallowed.
- 9. Do not remove or modify the equipment without permission.
- 10. Strong electromagnetic fields may interfere with the proper operation of the thermometer. The device needs special pre-cautions regarding EMC according to the EMC information.
- 11. It is not intended for use in the oxygen rich environment and presence of flammable anesthetic mixture with air, oxygen or nitrous oxide.
- 12. Put the thermometer back to the original packaging after using.

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### Specifications

Measuring range	Ear/Forehead mode: 34.0°C~43.0°C(93.2°F~109.4°F) Object mode: 0°C~100°C(32°F~212°F)	
Measuring site	Ear canal(Ear Mode)、Forehead(Forehead Mode)	
Reference body site	Oral (This thermometer converts the ear temperature to display its "oral equivalent.")	
Operation mode	Ear/Forehead mode(Adjust mode)	
Laboratory accuracy	Ear/Forehead mode: $\pm 0.2^{\circ}\mathbb{C}(0.4^{\circ}\mathbb{F})$ during 35.5°C~42.0°C (95.9°F~107.6°F) at 15°C~35°C (59.0°F~95.0°F) operating temperature range $\pm 0.3^{\circ}\mathbb{C}(0.5^{\circ}\mathbb{F})$ for other measuring and operating temperature range Object mode: $\pm 4\%$ or $\pm 2^{\circ}\mathbb{C}(4^{\circ}\mathbb{F})$ whichever is greater	
Display resolution	0.1℃ or 0.1℃	
Measure time	Ear mode/Object mode: Approx. one second Forehead: Approx. three seconds	
Operating temperature range:	10°C~40°C(50°F~104°F), 15%~85%RH, non-condensing Atmospheric Pressure : 700hPa ~ 1060hPa	
Storage and transport temperature range	-25°C~ 55°C (-13°F~131°F), 15%~95%RH, non-condensing Atmospheric Pressure : 700hPa ~ 1060hPa	
Clinical accuracy	Clinical bias: 0.05°C (0.09°F) Clinical repeatability: 0.11°C (0.20°F) Limits of agreement: 1.04°C (1.88°F)	
Shock	withstands drop of 3 feet	
Dimension	155 * 39* 50mm	
Weight	Approx.85grams(with batteries)	
Battery	DC3V(2×AAA battery)	
Battery life	Approx. 1 year/6000 readings	
Expected service life	Three years	
Ingress protecting rating	IP22	

Troubleshooting			
Error message	Problem	Solution	
Er l	Measurement before thermometer is ready	Take a measurement until thermometer is ready(with 2 beeps).	
8-3	The ambient temperature is not within the range between $10^{\circ}$ C and $40^{\circ}$ C $(50^{\circ}$ F $\sim 104^{\circ}$ F).	Place the thermometer in a room for at least 30 minutes at room temperature between 10°C and 40°C (50°F~104°F)	
8r 3	The thermometer is placed incorrectly or unsteady.	Read Illustration For Use thoroughly and take a new temperature measurement.	
6-4	The thermometer showing a rapid ambient temperature change.	Allow the thermometer to rest in a room for at least 30 minutes at room temperature: between $10^{\circ}$ C and $40^{\circ}$ C $(50^{\circ}$ F $\sim$ 104°F)	
8-5	The thermometer is not functioning properly.	Unload the battery, wait for 1 minute and repower it. If the message reappears, contact the retailer for service.	

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)		1.
	$\sim$	

## Calibration

The thermometer is initially calibrated at the time of manufacture. If the thermometer is used according to the use instruction, periodic readjustment is not required. However, We recommends checking calibration every two years or whenever clinical accuracy of the thermometer is in question. Please send the complete device to the dealers or manufacturer.

The above recommendations do not supersede the legal requirements. The user must always comply with legal requirements for the control of the measurement, functionality, and accuracy of the device which are required by the scope of relevant laws, directives or ordinances where the device is used.

A clinical summary and procedures for checking calibration are available upon request. (Turn on the thermometer and press the power button long time until entering into calibrate mode, software version will be displayed.)

ASTM laboratory accuracy requirements in the display range of 36.0 to 39.0 °C (96.8 to 102.2 °F) for IR thermometers is  $\pm 0.2^{\circ}C(\pm 0.4^{\circ}F)$ , whereas formercury-in-glass and electronic thermometers, the requirement per ASTM Standards E 667-86 and E 1112-86 is  $\pm 0.1^{\circ}C(\pm 0.2^{\circ}F)$ ."

Type BF applied part Direct Current

Disposal of this product and used batteries should be carried out in accordance with the national regulations for the disposal of electronic products

Consult Accompanying Documents

LOT Batch Code

T

B

-25°C

25

Storage and Transportation Temperature Limit: -13°F ~131°F (-25°C~55°C)

# Troubleshooting

Error message	Problem	Solution
H,	In Ear/Forehead mode: Temperature taken is higher than 43.0 °C (109.4°F). In Object mode: Temperature taken is higher than 100 °C (212°F).	Read Temperature Taking Hints Thoroughly, then take a new temperature measurement.
Lo	In Ear/Forehead mode: Temperature taken is lower than 34.0 °C (93.2°F). In Object mode: Temperature taken is lower than 0°C(32°F).	Read Temperature Taking Hints thoroughly, then make sure the lens filter are clean, then take a new temperature measurement.
	The thermometer could not work due to low battery.	Replace two new alkaline batteries size AAA.

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### Service

The thermometer has a limited one year warranty. Do not attempt to disassemble or repair the thermometer by yourself. Should service be required during or after the warranty period you must contact the manufacturer. Repackage the thermometer carefully in its original packaging or securely pack to avoid damage during shipping. Include the original sales slip indicating the date of purchase, a note describing the problem, and your return address. Send the thermometer prepaid and insured.

The lay operator or lay responsible organization should contact the manufacturer or the manufacturer's representative:

- for assistance, if needed, in setting up, using or maintaining the thermometer; or

- to report unexpected operation or events.

Manufactured for: HOME AIDE DIAGNOSTICS, INC. 1072 S. Powerline Rd. Deerfield Beach, FL 33442

Telephone: 1-800-915-0116 www.homeaide.us

Warranty	FCC Information
This appliance conforms to the following standards: ASTM E1965-98 Standard Specification for Infrared Thermometers for Intermittent Determination of Patient Temperature, ISO 80601-2-56 Medical electrical equipment —Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement, IEC 60601-1-11 Medical electrical equipment —Part 1-11: General requirements for basic safety and essential performance –Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment and complies with the requirements of IEC 60601-1-2(EMC), AAMI/ANSI ES60601-1(Safety) standards. And the manufacturer is ISO 13485 certified. Thermometer is warranted by manufacture to be free from defects in material and workmanship under normal use and service for a period of one year from the date of delivery to the first user who purchases the instrument. This warranty does not cover batteries, damage to the probe window, or damage to the instrument caused by misuse, negligence or accident, and extends to only to the first purchaser of the product.	<ul> <li>Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.</li> <li>*Note:</li> <li>This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:</li> <li>Reorient or relocate the receiving antenna.</li> <li>Increase the distance between the equipment and the receiver.</li> <li>Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.</li> <li>Consult the dealer or an experienced radio/TV technician for help.</li> </ul>

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# Electromagnetic Compatibility Information

The device satisfies the EMC requirements of the international standard IEC 60601-1-2. The requirements are satisfied under the conditions described in the table below. The device is an electrical medical product and is subject to special precautionary measures with regard to EMC which must be published in the instructions for use. Portable and mobile HF communications equipment can affect the device. Use of the unit in conjunction with non-approved accessories can affect the device negatively and alter the electromagnetic compatibility. The device should not be used directly adjacent to or between other electrical equipment.

# Electromagnetic Compatibility Information

Table 1				
Guidance and manufacturer's declaration – electromagnetic emission				
The device is intended for		tic environment specified below. The customer or the user of the device should hat it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment – guidance		
RF emissions	Group 1	The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and		
CISPR 11	oreap 1	are not likely to cause any interference in nearby electronic equipment.		
RF emissions	Class B	The device is suitable for use in all establishments, including domestic establishments and		
CISPR 11		those directly connected to the public low-voltage power		
Harmonic emissions IEC 61000-3-2	Not applicable	supply network that supplies buildings used for domestic purposes.		
Voltage fluctuations / flicker emissions IEC 61000-3-3	Not applicable			

Electromagnetic Compatibility Information
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	Guidance and manufactur	er's declaration – electrom	agnetic immunity
The device is inter		environment specified below. The it is used in such an environment.	e customer or the user of the device should
Immunity test	IEC 60601 test level	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 100 kHz repetition frequency ± 1 kV for input/output lines	an N/A	N/A
Surge IEC 61000-4-5	± 0.5 kV, ± 1 kV differential mode line-line	N/A	N/A
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % UT (100 % dip in UT ) for 0.5 cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270°, and 315° 0 % UT (100 % dip in UT ) for 1 cycle at 0° 70 % UT (30 % dip in UT ) for 25/30 cycles at 0° 0 % UT (100 % dip in UT ) for 250/30 cycle at 0°	N/A	N/A
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 b at levels characteristic of a typical locatio in a typical commercial or hospita environment.

#### Electromagnetic Compatibility Information

Table 3

Guidance and manufacturer's declaration - electromagnetic immunity				
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the				
device should assure that it is used in such an environment.				
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 bandsa	N/A	Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. <b>Recommended separation distance</b> $d = \left[\frac{3.5}{V_i}\right]\sqrt{P}$	
Radiated RF IEC 61000-4-3	10 V/m 80 MHz to 2.7 GHz	10 V/m	$d = \left[\frac{3.5}{E_1}\right] \sqrt{P}  \text{soMHz to 800MHz}$ $d = \left[\frac{7}{E_1}\right] \sqrt{P}  \text{soMHz to 2.7GHz}$ 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, <sup>a</sup> should be less than the compliance level in each frequency range <sup>b</sup> Interference may occur in the vicinity of equipment marked with the following symbol:	

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### Electromagnetic Compatibility Information

#### Table 3 continued

NOTE 1At 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 MHzto6,795 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,21,0MHz to 21,4MHz,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 device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the device.

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

# Electromagnetic Compatibility Information

Table 4

#### Recommended separation distances between

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

equipment.					
	Separation distance according to frequency of transmitter m				
Rated maximum output of transmitter	$150 \text{ kHz to } 80 \text{ MHz}$ $d = \left[\frac{3.5}{V_1}\right]\sqrt{P}$	80 MHz to 800 MHz $d = \left[\frac{3.5}{E_1}\right]\sqrt{P}$	800 MHz to 2.7 GHz $d = [\frac{7}{E_1}]\sqrt{P}$		
W					
0.01	0.12	0.04	0.07		
0.1	0.37	0.12	0.23		
1	1.17	0.35	0.7		
10	3.7	1.11	2.22		
100	11.7	3.5	7.0		
For transmitters rate	d at a maximum output nowe	r not listed above the recomm	ended congration distance d in		

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.

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# Electromagnetic Compatibility Information

Table 5

Recommended separation distances between RF wireless communications equipment The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the device can help prevent electromagnetic interference by maintaining a minimum distance between RF wireless communications equipment and the device as recommended below, according to the maximum output power of the communications equipment.

Frequency MHz	Maximum Power W	Distance	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
385	1.8	0.3	27	27	RF wireless communications equipment should be used no closer to any part of the device including cables, than the
450	2	0.3	28	28	
710					recommended separation distance calculated from the
745	0.2	0.3	9	9	equation applicable to the frequency of the transmitter, <b>Recommended separation</b> distance $E = \frac{6}{d} \sqrt{P}$ Where P is the maximum output power rating of the ransmitter in watts (W) according to the transmitter
780					
810	2	0.3	28	28	
870					
930					
1720					manufacturer and d is the recommended separation
1845	2	0.3	28	28	distance in meters (m). Field strengths from fixed RF transmitter, as determined by an electromagnetic site survey should be less than the compliance level in each
1970					
2450	2	0.3	28	28	
5240					frequency range. Interference may occur in the vicinity of
5500	0.2	0.3	9	9	equipment marked with the following symbol:
5785					((n))
	uidelines may no structures, objec		tuations. Electror	nagnetic propagat	ion is affected by absorption ar

## Electromagnetic Compatibility Information

#### WARNINGS!

• This device should not be used in the vicinity or on the top of other electronic equipment such as cell phone, transceiver or radio control products. If you have to do so, the device should be observed to verify normal operation.

• The use of accessories and power cord other than those specified, with the exception of cables sold by the manufacturer of the equipment or system as replacement parts for internal components, may result in increased emissions or decreased immunity of the equipment or system.