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Made in China Model DET-306

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Introduction

Please read all instructions carefully and thoroughly before using this product.

Indication for Use: The infrared forehead thermometer is a non-contact infrared thermometer intended for the intermittent measurement of human body temperature from forehead at a distance of 1~5cm by people of all ages. This thermometer is reusable for home use and clinical use and can be reused by many people.

The DET-1000 infrared forehead thermometer is specifically designed for safe use on the forehead. The Infrared Forehead Thermometer is a device capable of measuring people's body temperature by detecting the intensity of infrared light emitted from the forehead. It converts the measured heat into a temperature reading displayed on the LCD. When properly used, it will quickly assess your temperature in an accurate manner.

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.



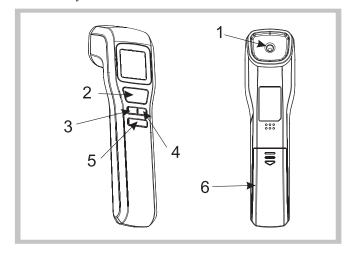
Warning

- 1. There is no gender or age limitation for using infrared forehead thermometer.
- 2.Do not touch the temperature probe with hands.
- 3. Use of this Forehead thermometer is not intended as a substitute for consultation with your physician.
- 4.Do not allow children to take their temperatures unsupervised, some parts are small enough to be swallowed.
- 5. Never immerse this device in water or other liquids(not waterproof).
- 6.Do not modify this equipment without authorization of manufacturer.
- 7.Do not expose the thermometer to temperature extremes(below -25°C/-13°F or over 55°C/131°F) nor excessive humidity (>95%RH).
- 8. Keep the battery away from children.
- 9. Remove battery from the device when not in operation for a long time.
- 10.Do not put the thermometer in direct sunlight or with cotton wool, otherwise the accuracy will be affected.
- 11. Portable and mobile RF communications can affect the devise.

 The device needs special precaution regarding EMC according to the EMC information provided in the accompany documents.
- 12.ME equipment should not be cleaned and disinfected while in use

Product Description

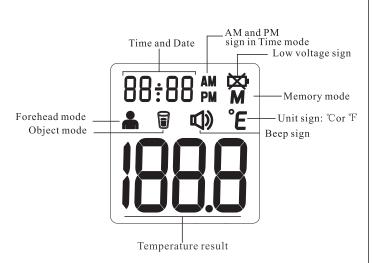
- 1. Probe
- 2. START Button
- 3. °C/°F Button
- 4. Memory Button
- 5. 📥 / 🖥 Button
- 6. Battery Cover





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LCD Display Introduction



Basic Functions

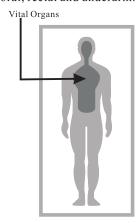
Real Time Clock	The real time clock will be recorded with the memory function and help you to recognize each measurement result. → Please see the Real time clock setting section to learn how to setup the time in the first use.	
Forehead Mode	The thermometer has been designed for practical use. It's not meant replace a visit to the doctor. Please also remember to compare the measurement result to your regular body temperature. → Please see the Illustration For Use section to learn how to measure body temperature.	
Object Mode	The object mode shows the actual, unadjusted surface temperatures, which is different from the body temperature. It can help you to monitor if the object temperature is suitable for the baby or patient, for example the baby's milk. → Please see the Illustration For Use section to learn how to measure the object temperature.	
Memory Mode	There are each 12 sets memories for forehead and object measurements. Each memory also records the measurement date/time/mode icon.	
°C/ °F Switch	Please see the Illustration For Use to learn how to change between Celsius and Fahrenheit.	
Beep Hint	When the testing is done, it will sound one short beep.	
Sound Switch	The thermometer can turn on or off sound. →Please see the Illustration For Use.	





Forehead Thermometer Advantages

Infrared Forehead Thermometer measures core body temperature, which is the temperature of a body's vital organs. (See Figure 1) This thermometer is designed to measure the temperature of the skin surface over the temporal artery, a major artery of the head. The temporal artery is connected to the heart via the carotid artery, directly leading from the aorta, the main trunk of the arterial system. It offers constant blood flow. Therefore, body temperature changes are reflected sooner in the forehead than they are in other parts of the body such as oral, rectal and underarm.



Real Time Clock Setting



① Set the time format
Press START Button to select the
time format you want.
The device can display the time in either
an AM/PM (12-hour) or a 24:00
(24-hour) format. With the preferred
time format on the display, press

/ Button, the Hour figure is
flashing automatically.



② Set the hour Press and release the *START Button* to advance one hour until the correct hour appears. After the hour is set, press \triangle / \bigcirc *Button*, the Minute figure is flashing automatically.



Real Time Clock Setting

16:00

Figure 1

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③ Set the minute



4 Set the year

Press and release the START Button to advance one year until the correct year appears. After the year is set, press \bigwedge / $\sqrt{}$ Button, the Month figure will appear.



5 Set the month



6 Set the date

Press and release the *START Button* to advance one day until the correct month appears. After the day is set, press After the setting mode.

Temperature Taking Hints

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.

- 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.
- 2. Users must be inside for 30 minutes before taking a measurement. Note: Users and the thermometer should be in the same ambient temperature for at least 10 minutes before taking a reading.
- 3. Users should not drink, eat, or be physically active such as bathing, showering, shampooing and hair drying before/while taking the measurement. Remove hat and hair and wait 10 minutes before taking a reading.
- 4. 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.



Temperature Taking Hints

- 5. Holding a hand on the forehead for any length of time will affect the temperature reading.
- 6. Do not take temperature over scar tissue, open sores or abrasions.
- 7. Do not use the thermometer on a perspiring or sweating forehead, as this may affect the reading.
- 8. Don't take a measurement while or immediately after nursing a
- 9. Do not take temperatures with this thermometer near places that are very hot, such as fireplaces and stoves.
- 10. 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.
- 11. 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.
- 12. It is not intended for use in the oxygen rich environment and presence of flammable anesthetic mixture with air, oxygen or nitrous oxide.

Illustration For Use

To measure forehead temperature:

- 1. Press the START Button, The display is activated to show all segments. Aim the thermometer at the center of the forehead with a distance less than 5cm (See figure 2). After self-checking the thermometer starts measuring right away. After measurement, it will show the test result and the backlight of the corresponding color is displayed for 3 seconds based on the measurement result.
- 2. Read the temperature on the display.
- 3. Press the *Test Button*, figure 3 appears on the display for a short time and you can start a new measurement.
- 4. The device will automatically shut down if left idle for about 1minute.





Figure 2

Figure 3



Illustration For Use

► How to turn on or off sound:

You can press and hold \mathbb{C}/\mathbb{F} Button to turn on or off sound.

► How to change the forehead mode and object mode:

You can press $\frac{1}{8}$ / $\frac{1}{8}$ Button to switch the mode between Forehead mode and Object mode.

To measure object temperature:

- 1. Press the START Button to turn on the thermometer, then press $\frac{1}{8}$ Button to switch to object mode, you can take the object temperature after hearing two beep sounds.(see figure 4)
- 2. Aim the thermometer at the center of the object you want to measure with a distance less than 5cm.
- 3. Press the START Button and then read the temperature on the display.
- 4. The device will automatically shut down if left idle for about 1minute.

冒 □) °F



► 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.)

BackLight:

In Forehead mode:

- 1. The display will be lighted GREEN for 3 seconds when the unit is ready for measurement and a measurement is completed with a reading less than 37.3° C(99.1°F).
- 2. The display will be lighted YELLOW for 3 seconds when a measurement is completed with a reading less than 38.0° C (100.4° F).
- 3. The display will be lighted RED for 3 seconds when a measurement is completed with a reading equal to or higher than 38.0° C(100.4° F).

In Object mode:

The display will only be lighted GREEN for 3 seconds when the unit is ready for measurement and a measurement is completed.







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Memory Mode

- 1. The Memory Mode can be accessed ether in forehead mode or object mode:
 - When the thermometer has been turned on and followed by Figure 2/4 or finished testing, press the *Memory Button*. The letter M will appear in the upper right corner of the display. (See Figure 6)
- 2. The thermometer will automatically memorize the last 12 temperature readings. Each memory also records the measurement date/time/mode icon. Each time the *Memory Button* is pressed, the screen displays past readings that correspond with a number 1-12. The number 1 reflects the most recent reading, while the number 12 reveals the oldest reading stored in memory.(See Figure 7)
- 3. In the memory mode, finark or mark will not change.

 The user can press the *START Button* to take new measurements.

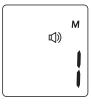




Figure 6

Figure 7

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, fingerprints, earwax, dust and other soiling compounds on the probe window. Degraded sensors can degrade performance or cause other problems.
- 2. 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) Visual or use magnifying glass to observe the thermometer have no visible dirt and stains ,then use another clean soft cloth to wipe the thermometer residue water;
 - 3) Put the thermometer in the original packaging.

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Care And Cleaning

3. For disinfection:

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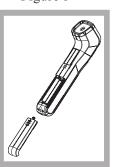
- 1) Soak a clean soft cloth in drinking water, wring it out, and then wipe the thermometer (including probe) no less than 3 times;
- 2) Visual or use magnifying glass to observe the thermometer have no visible dirt and stains ,then use another clean soft cloth to wipe the thermometer residue water;
- 3) Using a clean soft cloth dipped in 70% medical alcohol, wipe the probe for 3 Times, each time 1 minute.
- 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 put it in the original packaging.
- 4. Do not put the thermometer into water directly.
- 5. Store the thermometer in a dry location, free from dust and contamination and away from direct sunlight.
- 6. Put the thermometer back to the original packaging after using.

Battery Replacement

- 1. Replace battery when " (appears in the upper right corner of LCD display. (See Figure 8)
- 2. Slide battery cover down as shown in Figure 9.
- 3. Remove battery and install 2 new AAA alkaline batteries as shown in Figure 10.
- 4. Slide battery cover back on.



Figure 8



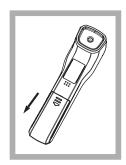


Figure 9

Figure 10





Specifications

1	Measuring range	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	Forehead(Forehead Mode)			
	Reference body site	Oral (This thermometer converts the forehead temperature to display its "oral equivalent.")			
	Operation mode	Forehead mode(Adjust mode)			
I	Laboratory accuracy	Forehead mode: $\pm 0.2^{\circ}\mathbb{C}\ (0.4^{\circ}\mathbb{F})\ during\ 35.5^{\circ}\mathbb{C}-42.0^{\circ}\mathbb{C}\ (95.9^{\circ}\mathbb{F}\sim107.6^{\circ}\mathbb{F})$ at $15^{\circ}\mathbb{C}\sim35^{\circ}\mathbb{C}\ (59.0^{\circ}\mathbb{F}\sim95.0^{\circ}\mathbb{F})$ 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°F			
	Measure time	Approximately 1 second			
	Operating temperature range:	5°C~40°C(41°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: -0.09°C (-0.16°F) Clinical repeatability: 0.13°C (0.23°F) Limits of agreement: 0.87°C (1.57°F)			
	Shock	withstands drop of 3 feet			
	Dimension	161.3*41.3*40.6mm			
	Weight	Approx.xxxgrams(with batteries)			
	Battery	DC3V(2×AAA battery)			
	Battery life	Approx. 1 year/xxxx readings			
	Expected service life	Three years			
	Ingress protecting rating	IP22			
$\overline{19}$	Contraindication	No contraindication			

Troubleshooting

Error message	Problem	Solution	
Er I	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.	
E-3	The ambient temperature is not within the range between 5° C and 40° C (41° F \sim 104°F).	Place the thermometer in a room for at least 30 minutes at room temperature between 5°C and 40°C (41°F~104°F)	



Troubleshooting

Error message	Problem	Solution	
Hı	In 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 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.	

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 START button long time until entering into calibrate mode, software version will be displayed.)

Symbol Explanation

\triangle	Caution		
===	Direct Current		
LOT	Batch Code		
-13°F	Storage and Transportation Temperature Limit: -13 °F <-131 °F (-25 °C <-55 °C)		
À	TYPE BF APPLIED PART		
③	Refer to instruction manual/booklet		
₩	General symbol for recovery/recyclable		
Z	Disposal of this product and used batteries should be carried out in accordance with the national regulations for the disposal of electronic products.		
70kPa (106kPa	Atmospheric pressure limitation		
15%	Storage and Transportation Humidity limitation: 15%~95%RH		
~	Manufacturing Date		
***	Manufacturer		
IP22	The first num.2:Protected against solid foreign objects of 12,5 mm Ø and greater. The second num.2:Protection against vertically falling water drops when ENCLOSUREtilted up to 15°.		

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.

If the thermometer does not function properly call customer service at 1-877-299-6700. Our representative will provide instruction on how to correct the trouble or will ask you to return the unit for repair or replacement.

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Warranty

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.

FCC Information

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.

*Note:

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:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

 The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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.

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Electromagnetic Compatibility Information

Table 1

$Guidance\ and\ manufacturer's\ declaration-electromagnetic\ emission$

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.

Emissions test	Compliance	Electromagnetic environment – guidance	
RF emissions CISPR 11	Group 1	The device 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 device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.	
armonic emissions IEC 61000-3-2	Not applicable		
oltage fluctuations / flicker emissions IEC 61000-3-3	Not applicable		

Table 2

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.

Electromagnetic Compatibility Information

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 100 kHz repetition frequency 1 lines 100 kHz repetition frequency 1 lines 100 kHz repetition frequency 1 lines 1 lines 100 kHz repetition frequency 1 lines 1 lines 100 kHz repetition frequency 100 kHz repetition freq		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 25/30 cycles 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 at levels characteristic of a typical locat in a typical commercial or hosp environment.

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

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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 Complianc Electromagnetic environment - guidance Compliance level level 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 3 Vrms 150 kHz to 80 MHz 6 Vrms 150 kHz to Conducted RF N/A the equation applicable to the frequency of the transmitter. IEC 61000-4-6 80 MHz outside ISM bandsa Recommended separation distance Radiated RF 10 V/m \sqrt{P} 80MHz to 800MHz IEC 61000-4-3 80 MHz to 2.7 GHz $d = \left| \frac{7}{E_1} \right| \sqrt{P} \quad 800 \text{MHz to } 2.7 \text{GHz}$ 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, 8 should be less than the compliance level in each frequency range b Interference may occur in the vicinity of

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 $80\,\mathrm{MHz}$ are $1.8\,\mathrm{MHz}$ to $2.0\,\mathrm{MHz}$, $3.5\,\mathrm{MHz}$ to $4.0\,\mathrm{MHz}$, $5.3\,\mathrm{MHz}$ to $5.4\,\mathrm{MHz}$, 7MHz 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.



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Electromagnetic Compatibility Information

((<u>`</u>;))

equipment marked with the following symbol:

Table 4

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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 communication 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 $d = \left[\frac{7}{E_1}\right]\sqrt{P}$	
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 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, wh 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.

Electromagnetic Compatibility Information

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
450	2	0.3	28	28	closer to any part of the device, including cables, than the
710					recommended separation distance calculated from the
745	0.2	0.3	9	9	equation applicable to the frequency of the transmitter.
780					Recommended separation
					distance
810					$E = \frac{6}{d} \sqrt{P}$
870	2	0.3	28	28	Where P is the maximum output power rating of the
930					ransmitter in watts (W) according to the transmitter
1720					manufacturer and d is the recommended separation
1845	2	0.3	28	28	distance in meters (m). Field strengths from fixed RF
1970					transmitter, as determined by an electromagnetic site survey,
2450	2	0.3	28	28	should be less than the compliance level in each
5240					frequency range. Interference may occur in the vicinity of
5500	0.2	0.3	9	9	equipment marked with the following symbol:
5785					((<u>~</u>))
NI 4 1 TI	1.1.11	1 11 11	TI		

ote 1: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and



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.
- 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.