Sinocare

Instruction For Use
Infrared Thermometer
Model:BSX976

*Please thoroughly read the instruction Manual before using the unit
*Please keep this instruction Manual for further reference
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Foreword

Thank you for purchasing the Infrared Thermometer.

The Infrared Thermometer is a high quality product incorporating the latest technology and tested in accordance with international standards. With its unique technology, the Infrared Thermometer can provide a stable, heat-interference-free reading with each measurement.
Infrared thermometer shows the temperature of the subject by measuring the heat radiation from the forehead.

Some Helpful Guidelines For Best Results When Using the Infrared Thermometer

- Call your doctor when your child has diarrhea, vomiting or changes in appetite, lethargy (sluggishness) or is unusually irritable.
- It is important to know each individual's normal temperature when they are well. This is the only way to accurately diagnose a fever. Take multiple readings when healthy to determine normal temperature.
- A child's normal temperature can be as high as 37.7°C or as low as 36.1°C. Re-measure with a standard digital thermometer for conformation, especially on infants (It is recommended to use a digital thermometer rectally on infants and on sleeping infants if there is a question about the measurement. Be sure to note this unit reads 0.5°C lower than a rectal digital measurement).

This product is a Class II medical device and belongs to the internal power supply equipment, type BF application part, the protection grade is ordinary equipment, non-AP/APG, intermittent operation equipment, the EUI is classified as Class IIa.

Please read these instructions carefully before using this instrument and keep the instructions and the thermometer in a safe place.

I. Advantages of the Infrared Thermometer
Quick Measurement
The infrared technology allows measurement of body temperature in within 3 seconds.

Appropriate Medical Application
The infrared thermometer provides either forehead or Object temperature readings. The range of the forehead temperature is from (32.0~43.0)℃/(90.2~109.4)℉ and the Object temperature is from (5.0~95.0)℃/(41.0~203.0)℉ which can meet the application demands normally.

Accurate and Reliable Measurement
Due to the unique probe assembly construction, the advanced infrared sensor, and the complete calibration process this unit can offer a very accurate and reliable temperature measurement comparable to one taken from the oral site with a regular digital thermometer.

Gentle and Easy to Use
- The Infrared Thermometer is non-invasive. A measurement can be taken even while a child is sleeping.
- Design is easy to hold and use.
- The Infrared Thermometer is less threatening to a child than a rectal thermometer and easier to use than other methods.

Multiple Reading Recordings
Users can record the last 20 readings when entering the Memory™ Tracker recall mode, enabling efficient tracking of temperature history and variations.

Safe and Hygienic
- No risk of broken glass or mercury ingestion.
- Completely safe for use on children.

Fever Indications
When the measurement reading exceeds 38.0°C (100.4°F), please go to the hospital for medical examination as soon as possible.

II. How the Infrared Thermometer Measures Body Temperature
Objects in the nature radiates infrared rays if it, s temperature above absolute zero (-273 °C). The energy of the infrared rays and temperature are proportional. With this relationship, The infrared thermometer calculates the temperature by measuring the infrared radiation intensity of the object.

III. Intended Use/Indications for Use
Infrared thermometer shows the temperature of the subject by measuring the heat radiation from the forehead. It is suitable for people of all ages.
The Infrared thermometer is intended for both professional and consumer, the patient is the intended operator.

IV. Important Safety Instructions
- Never use the thermometer for purposes other than those it has been intended for. Please follow the general safety precautions and warnings carefully.
- Never immerse the Infrared Thermometer into water or other liquids (not waterproof).
- For cleaning and disinfecting please follow the instructions in the "Cleaning and Storage" section.
- Keep the instrument away from direct exposure to the sun and keep it in a dust-free, dry area at the temperature between (15~40)°C.
- Do not use the thermometer if there are signs of damage on the measuring sensor. In the instance that it is damaged, do not attempt to repair the instrument! Please contact the agent.
- The Infrared Thermometer consists of high-quality precision parts. Do not drop the instrument. Protect it from severe impact and shock. Do not twist the instrument or the measuring sensor, otherwise it will not be able to measure body temperature accurately or unable to measure body temperature.

WARNING:
- Use of this Infrared Thermometer is not intended as a substitute for consultation with your physician or paediatrician.
- This thermometer is not waterproof! NEVER immerse into liquids!
- Please consult your doctor if you see symptoms such as unexplained irritability, vomiting, diarrhea, dehydration, changes in appetite or activity, seizure, muscle pain, shivering, stiff neck, pain when urinating, etc., even in the absence of fever or who exhibits a normal temperature, may still need to receive medical attention.
- People who are on antibiotics, analgesics, or antipyretics should not be assessed solely on temperature readings to determine the presence of illness.
- Temperature elevation may signal a serious illness, especially in adults who are old, frail, have a weakened immune system, or neonates and infants. Please seek professional advice immediately when there is a temperature elevation and if you are taking temperature for whom are:
1) Neonates and infants under 3 months;
2) Over 60 years of age;
3) Having diabetes mellitus or a weakened immune system (e.g. HIV infection, cancer chemotherapy, chronic steroid treatment, splenectomy);
4) Bedridden (e.g. nursing home patient, stroke, chronic illness, recovering from surgery)

5) A transplant patient (e.g. liver, heart, lung, kidney)
- Fever may be blunted or even absent in elderly patients.
- This thermometer is not intended for pre-term babies or small-for-gestational age babies. This thermometer is not intended to interpret hypothermic temperatures.
- Do not allow children to take their temperatures unattended.
- Do not modify this equipment without authorization of manufacturer.
- Please do not service and maintain thermometer when it is in use. Except for occasionally replacing the battery, place something on the forehead etc.
- This product contains small parts such as(batteries, battery cover and screws)that may cause suffocation if swallowed by children.

PRECAUTIONS:
To avoid an inaccurate measurement, note the following:
- 1 hour is required for the Infrared thermometer to warm from the storage temperature to the storage temperature range. Until the infrared thermometer is ready for its INTENDED USE when the ambient temperature is in °C.
- 1 hour is required for the 1 hour is to cool from the maximum storage temperature between uses until the 1 hour is is ready for its INTENDED USE when the ambient temperature is in 20 °C.
- Before and after use, please keep the sensor and probe cavity clean;
- Please use the thermometer in a stable temperature environment. When the ambient temperature fluctuates greatly (from indoor to outdoor), please leave it for about half an hour to measure;
- Do not start measuring body temperature immediately after measuring extremely high or low temperature, please leave it for ten minutes to measure;
- Patients should stay in steady - state room condition for at least 30 minutes.
- Don't remove the measurement device from the measuring area before hearing the final beep.
- Don't take a measurement while or immediately after nursing a baby.
- Don't use the Infrared thermometer in high humidity environments.
- Patients should not drink, eat, or be physically active before/while taking the measurement.
- Before placing the thermometer sensor onto the measurement area, remove dirt, hair, or sweat.
- Always take the temperature in the same location, since the temperature readings may vary from different locations.
- In the following situations it is recommended that three temperatures in the same location be taken and the highest one taken as the reading:
1) Newborn infants in the first 100 days.
2) Children under three years of age with a compromised immune system and for whom the presence or absence of fever is critical.
3) When the user is learning how to use the thermometer for the first time until he/she has familiarized himself/herself with the instrument and obtains consistent readings.

V. Product Description

The above picture is only for reference. Please use the material object as standard.
1) Start button: Measuring the forehead temperature and objects temperature.
2) Set button: The product supports total four settings options, which are temperature unit, operating sound, fever indication point, temperature offsets.
3) Memory button: Read the 20 measured data lately.

VI. Installation and Use
6.1 Initial settings
6.1.1 Battery installation
Install new battery
1. Open the battery cover on the bottom of the thermometer.
2. Install two "AAA" batteries correctly, and pay attention to the direction of the battery's positive and negative electrodes.
3. Close the battery cover(as the picture below).

Warning:
a) Please do not use this thermometer in flammable and explosive anesthetic gas, oxygen, nitrous oxide, etc.
b) To ensure the performance accuracy of this product and prevent it from damage, please store it in a dry and indoor place.
c) Caution: Do not install waste batteries on the thermometer and do not input external power.

d) When not in use for a long time, please remove the battery to prevent leakage.
e) Never dispose of waste batteries in fire.
f) Please properly dispose of used batteries in accordance with local regulations to avoid contamination.

6.2 Measurement Instructions
6.2.1 Body temperature
6.2.1.1 Short press the start button to turn on, all the icons are displayed on the screen, the buzzer two beeps to complete the self-test, and enter the temperature measurement state.
6.2.1.2 Point the thermometer to the center of human forehead in straight angle,at a distance of 0-3 cm. In about half a second user may hear the sound"beep" and see the temperature value. The measurement is done.

After the measurement is done, if there is no operation within 30 seconds, it will aut-omatically shut down.
6.2.1.3 Read the recorded temperature from the LCD display.
NOTE:
a) Before and after use, please keep the sensor and probe cavity clean;
b) Please use the thermometer in a stable temperature environment. When the ambient temperature fluctuates greatly (from indoor to outdoor), please leave it for about half an hour to measure;
c) Do not start measuring body temperature immediately after measuring extremely high or low temperature, please leave it for ten minutes to measure;
d) When the measurement object comes from a place with a large temperature difference from the measurement environment, it should stay in the test environment for at least half an hour;
e) Try not to measure with forehead blown, dripping, sweating, or applying cosmetics.
f) Do not take body temperature within 30 minutes after exercise, bathing, or eating.

6.2.2 Objects temperature
6.2.2.1 Short press the start button to turn on; all the icons are displayed on the screen; the buzzer two beeps to complete the self-test, and enter the temperature measurement state.
6.2.2.2 Point the thermometer to the object surface under test at a distance of 0-3 cm.Press the Start button, and in about half a second you will hear the sound 'beep' with the reading displayed and the measurement is done.
NOTE:
a) The temperature here refers to only the surface temperature of the object under test, not its core temperature;
b) The infrared ray radiation rate of different materials varies, which may affect the measurement results. The defaulted radiation rate of this device is 0.95. For example, the measured temperature of stainless steel may be much lower than the actual body temperature. Please take care to prevent from getting burned in such case.

6.3 Function settings
This product supports total five settings options, such as temperature unit, operating sound, fever indication point, temperature offsets and measurement mode.

Icon	Function	Measure button	Defaulted value
U	Read Memory	View records	Latest 20 records
Icon	**Function**	**Setting button**	**Defaulted value**
F1	Temp offsets	Revise offsets	0.0℃/℉
F2	Backlight switch	On/ Off	ON
F3	Operating sound	On/ Off	ON

6.3.1 Read the Memory
Press the power button to turn on, then long press the memory button until the memory icon is displayed, and press the Set button to view the latest 20 records. Press the Start button to exit from memory view.

6.3.2 Temperature unit setting
When the thermometer turn on,short press the Memory button to switch the temperature unit(℃/℉).

6.3.3 Temperature offset setting: F1
When the thermometer turn on,long press the Set button until appears F1 on the screen. press the Scan button consecutively to set the range of temperature offsets/deviation between (-2~2)°C.

6.3.4 Backlight switch setting: F2
Press once more the Set button to set backlight after F2 appears on the screen, press the Scan button to switch "ON"/"OFF" the backlight which indicates "ON" and "OFF" to alternately.

6.3.5 Operating sound: F3
Press once more the Set button, you will see F3 and the operating sound icon ( ) at current status on the screen.
Press the Scan button to switch "ON"/"OFF" the operating sound which indicates "ON" and "OFF" to alternately.

6.3.6 Save and exit
After the last setting of Set button, you will see the word SAVE on the screen, and then save the settings and exit.
Once you enter the settings menu, if you want to change some options, you can press consecutively
Set the options in order and save them. If you turn off the unit during operation, new settings won't be saved.
When the Settings menu is open, the thermometer will not take any measurement.
NOTES:
a) Body temperature mode is used to measure the temperature of human body with dynamic compensation of ambient and forehead temperature;
b) Object temperature mode takes the temperature of the object surface, which does not mean the temperature of human body under test;
c) The temperature offsets/deviations can be corrected according to the difference between the target measurements and actual temperature due to different ambient temperature, measuring distance, conditions of individual skin. The temperature correctio. range is (-2.0~2.0)°C/℉, and the defaulted value is 0.0 °C/℉.
For instance, if the measured temperature is 36.2°C, while the actual temperature of the object under test is 37.0°C, you can enter the interface of F1 to increase the offsets up to 0.8°C. After setting, user can get the final result same with the actual temperature.
Setting steps: In the power-on state, press and hold the SET key to enter F1 , the screen displays 0.0°C At this time, press SCAN to adjust the compensation temperature up or down and save.

6.4 The temperature of the measured object is out of range
6.4.1 Body temperature measurement:
a) When the measured value is lower than 32°C, "Lo" will be displayed and there will be two beeps;
b) When the measurement temperature is higher than 43.0°C, "Hi" is displayed and there will be two beeps.
6.4.2 Objects temperature measurement:
a) When the measured value is lower than 5.0 °C, "Lo" will be displayed and there will be two beeps;
b) When the measured temperature value is higher than 95.0°C, "Hi" is displayed and there will be two beeps.

NOTES:
1) When the ambient temperature is lower than 15 °C or higher than 40 °C, the thermometer will not be able to measure. It will display "Lo" or "Hi" and shut down.
2) The patient is the intended operator.
3) The functions (measuring forehead temperature, measuring objects temperature, the buzzer etc.) that patient can safely use.

VII. Error messages and trouble-shooting

Troubles	Solutions
The display indicates "LO" or"HI"	1. Check the target you are going to measure. In the case he is facing a fan, sweating, wet from rain or making up with cosmetics, the accuracy cannot be ensured; 2. Check the temperature offsets settings. The factory defaults is 0.0°C/℉; 3. Check the working environment. The environment change imposes great impacts on the accuracy of the unit. If the change varies too much, or the device has just been used to measure objects of extra-high or low temperature, large deviation may occur. Measurement should be performed in a relatively stable and constant environment where the device stays for a least half an hour 4. Check the measuring distance(≤3cm).
Buttons failure	1. Re-install the batteries; 2.Check whether the device stays in setting menu.
No display or abnorm al display	Re-install the batteries.
No operating sound	Check whether the operating sound is turned off
Shutdown soon after turned on	Re-install the batteries.
The display indicates"E9"	Excessive ambient temperature changes, please leave it for at leasthalf an hour before using it.

VIII. Maintenance, Repair and Calibration
Please check carefully before use to ensure that the temperature sensor and the probe cover are clean, make sure the batteries is properly installed and the power is sufficient, otherwise:

1) Care and Cleaning
Wipe the sensor mirror with a cotton ball with a small amount of

75% alcohol. Make sure that the sensor mirror is neat and tidy, otherwise the measurement accuracy may be affected.
NOTES:
- Do not use a wet cotton ball to wipe the sensor mirror to prevent the probe from entering the thermometer.
- Never use abrasive cleaning agents, thinners or benzene for cleaning and never immerse the instrument in water or other cleaning liquids

2) Replacing the Battery
If the Low Voltage indicator appears on thedisplay, it is time to replace your batteries. The thermometer takes two AAA batteries.Slide open the battery cover as shown and remove batteries.
Replace the batteries being sure to align properly as indicated inside the battery compartment.
NOTES:
If you use the thermometer every day, it is recommended to clean the shell, temperature sensor at least before the first use and after the last use of the day, and ensure that the battery is properly installed and fully charged; If the interval is longer, it is recommended to clean the shell, temperature sensor, and probe cover before and after each use, and remove the battery after use.

3) When not in use, please keep the Infrared thermometer and its accessories in the packing box. If you do not use the thermometer for a long time, please remove the batteries.
4) In order to prevent the Infrared thermometer from damage, please comply with the following items, and improper use will result in the loss of warranty services:
- Please do not place the Infrared thermometer in an environment of high temperature, damp, full of water vapor or direct sunlight.
- Please refer to the specification table for details. If stored and used in a place that does not meet the specified range, then the system may not be able to achieve the claimed specifications.
- Please do not disassemble the Infrared thermometer.
- Please do not allow the Infrared thermometer to be subjected to strong impact or vibration (for example, drop the Infrared thermometer on the ground).
- Please do not use volatile liquid to clean the Infrared thermometer. Please use soft and dry cloth to clean the outer shell and battery.
- Please clean the thermometer with a soft dry cloth. Do not use any abrasive or volatile.
- Please do not use water to clean or moisten the temperature, and when necessary, absorbent cotton dipped with alcohol (75% alcohol) can be used to wipe it gently, so as to conduct disinfection.
- Drop, collision and bending etc. may reduce the performance of

the battery; if the battery is found abnormal, such as packaging damage and battery pack deformation etc., do not use these batteries.
- The manufacturer will make available on request circuit diagrams, component parts lists etc.
- The patient can perform changing batteries.

5) calibration instructions, or other information that will assist service personnel to repair those parts of ME equipment that are designated by the manufacturer as reparable by service personnel.
6) For customer service:
Warranty service, please refer to "warranty card".
7) Calibration
If you suspect that the measurement results are biased and the accuracy is affected. Please contact the service center for calibration or repair. Please do not disassemble the instrument. Or it is recommended the performance should be checked every 1 year or after repair. Please contact the service center.

IX. Icon meaning

Definition	Icon	Status Description	
Power level		With display	Replacement battery
		No display	Power level is high enough
Sound		With display	Buzzer is on with sound
		No display	Buzzer is off, no sound
Temperature unit		Celsius	
		Fahrenheit	
Readings		Indicating measured results	

Icon	Status Description
	WEEE Symbol
	Type BF applied part
	Refer to instruction manual/booklet.
	Manufacturer
EC REP	Authorized representative in the European Community
	Date of manufacture
	Use-by date
	Distribution packages shall not be exposed to sunlight

	Contents of the distribution packages are fragile therefore it shall be handled with care
	Distribution packages shall be kept away from rain and be kept in dry conditions
	Distribution packages shall be stored, transported ,and handled within temperature limits indicated
	This is the correct upright position of the distribution packages for transport and/or storage.
	Maximum number of identical transport packages/items which may be stacked on the bottom package ,where "n" is the limiting number
AP/APG	It cannot be used in a mixture of flammable anesthetic and air, oxygen or nitrous oxide.

X. Disposal treatment statement
The product manufacturing date can be seen in the qualification certificate, and the product use period is 5 years.
If electronic products and batteries are directly thrown into the trash can, they can cause harm.

- Dispose of the device, components and optional accessories according to applicable local regulations. Unlawful disposal may cause environmental pollution.

If electronic products and batteries are directly thrown into the trash can, they can cause harm to the environment. At the end of the product's service life, please do not throw it to the trash can, and please dispose of it according to the local law.

XI. Warranty
This product has been produced with the greatest care for normal, household use. Following directions carefully will ensure dependable operation. If for any reason (other than misuse or normal battery operation) you are dissatisfied with your thermometer, we will repair or replace it, at our option, at no charge for a period of 1 year from the date of purchase of the product by the consumer is not authorized and voids the warranty. If the thermometer does not function properly, first check the battery. Replace if necessary. Batteries and packaging are excluded from the warranty.
If something goes wrong, please contact BSX. If repair is required under the warranty period, the product should be returned with proof of purchase to BSX service center.
The purchaser assumes responsibility for the proper care and use of the product as outlined in the Instruction Manual/booklet. The proper and correct use must make his or her judgment as to when to use the product and the length of use. Keep the operation

manual available as it is your guide to safe, efficient operation. The product come with guarantees the compliance with European Union Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

XII. Technical Specifications

Items	Parameter
Product name	Infrared Thermometer
Model name	BSX976
Measuring Range¹	Forehead: 32.0℃~43.0℃/89.6℉~109.4℉
Measuring Range	objects : 5.0℃~95.0℃/41.0℉~203.0℉
Display Resolution	0.1℃/0.1℉
Measurement Accuracy²	Forehead: ±0.2℃(±0.4℉)
Measurement Accuracy	objects : ±1℃(±1℉)
Safety classification	Class IIa,Internally powered,Type BF applied part
Fever indication	Normal body temperature: 32.0~37.5℃, the screen normally displays the body temperature value, the backlight shows a green light and buzzer sounding a "beep".
	Low fever:37.6~38.5℃, the screen normally displays the body temperature value, the backlight displays a yellow light, and the buzzer sends out two beeps.
	High fever:38.1~42.5℃, the body temperature value displays on the screen intermittently, the backlight displays a red reminder, and the buzzer sends out six beeps.
Waterproof grade level	IP22
Display screen	LCD
Sound setting	Available
Measurement Time	Within 3s
Service life of Battery	10000 times
Memory capability	20 reading sets
Operating environment range	Temperature:(15~40)℃/(59.0~104.0℉); Humidity: (20~85)%RH,Atmospheric: (70~106)kPa

Storage/Transport environment range	Temperature: (-20~55)℃/(-4~131℉); Humidity: RH≤93%,Atmosphere: (70~106)kPa
Automatic Switch-off	Approx 30 seconds after last measurement has been taken.
Battery	2* 1.5 V AAA Batteries
Weight	82g (with battery), 75g (without battery)
Lifetime	5 years

Remarks:
1. The measurement site of infrared thermometer is different from the contact thermometers. When measuring, please ensure that the forehead is not blocked by objects, and the measuring distance is ≤3 cm.
2. Clinical accuracy characteristics and procedures are available from the manufacturer on request.
3. For the purpose of performance improvement, the above specifications are subject to change without notice.

Essential performance of the thermometer.

XV. Electronic compatibility warning and statement
Notes:
The equipment complies with the relevant electromagnetic compatibility requirements of EN 60601-1-2:2015;
Users shall conduct installation and use according to the electromagnetic compatibility information provided by random files;
Portable and mobile RF communication equipment may affect the medical electrical device, as strong electromagnetic interference shall be avoided when in use, such as close to mobile phone and microwave oven etc.;

Warning:
The equipment shall not be close to or stacked with other equipment when in use, and if it is necessary to close to or stack with other equipment when in use, it shall be observed and verified to ensure its normal operation in the configuration used.
Except for the cable sold by the equipment manufacturer as the spare parts of internal components, the use of unspecified accessories may result in increase of emission increase or anti-interference reduction of the equipment.
– potential allergic reactions to accessible materials used in the me equipment.

Guidance and manufacturer's declaration - electromagnetic emissions			
The model BSX976 is intended for use in the electromagnetic environment specified below. The customer or the user of the model BSX976 should assure that they are used in such an environment.			
Emissiontest	**Compliance**	**Electromagnetic environment - guidance**	
RF emissions CISPR 11	Group 1	The model BSX976 use 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 CISPR11	Class B	The model BSX976 is suitable for used in domestic establishment and in establishment directly connected to a low voltage power supply network which supplies buildings used for domestic purposes.	
Harmonic emissions IEC61000-3-2	Not applicable		
Voltage fluctuations/ flicker emissions IEC61000-3-3	Not applicable		

Guidance & Declaration – electromagnetic immunity			
The model BSX976 is intended for use in the electromagnetic environment specified below. The customer or the user of the model BSX976 should assure that they are used in such an environment.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment - guidance**
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV: all kV contact ±15 kV: all kV air ±8 kV: all kV contact ±15 kV: all 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%.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/ output lines	Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV line to line ±2 kV line to earth	Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11.	0% for 0.5 cycle (at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°) 0% for 1 cycle 70% for 25/30 cycles (single phase) 0% for 250/300 cycle	Not applicable	Mains power quality should be that of a typical commercial or hospital environment. If the user of the model BSX976 requires continued operation during power mains interruptions, it is recommended that the model BSX976 be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3A/m, 50 A/m	3A/m, 30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE U_T is the a.c. mains voltage prior to application of the test level.			

Guidance & Declaration - Electromagnetic immunity			
The model BSX976 is intended for use in the electromagnetic environment specified below. The customer or the user of the model BSX976 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 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 3 Vrms in ISM bands 10 Vrms 80 MHz to 2.7 GHz	Not applicable Not applicable 10 Vrms 80 MHz to 2.7GHz	Portable and mobile RF communications equipment should be used no closer to any part of the model BSX976, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. **Recommended separation distance** $d=[3.5/V_1]\sqrt{P}$ $d=[7.3/E_1]\sqrt{P}$ 80 MHz to 800 MHz $d=[7.3/E_1]\sqrt{P}$ 800 MHz to 2.7 GHz 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:
80MHz-2700MHz Test specification for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment (Refer to IEC 60601-1-2:2014)		**80MHz-2700MHz Test specification for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment (Refer to IEC 60601-1-2:2014)**	

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.
NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

a Field strengths from fixed transmitters, such as base stations for radio (cellular/ cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the model BSX976 is used exceeds the applicable RF compliance level above, the model BSX976 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the model BSX976.
b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.

Recommended separation distances between portable and mobile RF communications equipment and the model BSX976.			
The model BSX976 is intended for use in electromagnetic environment in which radiated RF disturbances is controlled. The customer or the user of the model BSX976 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the model BSX976 as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter W	**Separation distance according to frequency of transmitter m**		
	150kHz to 80MHz $d=1.2\sqrt{P}$	80MHz to 800MHz $d=1.2\sqrt{P}$	800MHz to 2.7GHz $d=2.3\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in 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) 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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