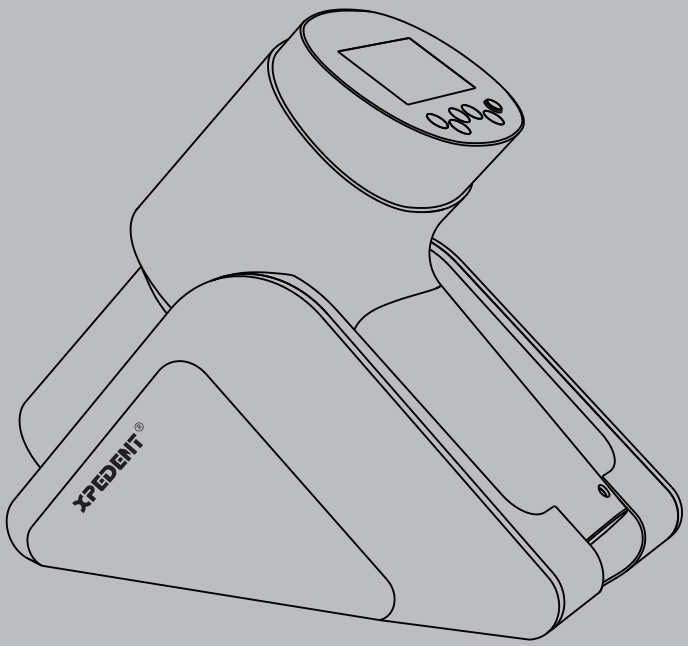
Evoray

Portable X-ray

Instruction Manual



Please read this manual before operating.

Content

Preface

Thank you for purchasing the dental X-ray device produced by Guilin Yikeshi Medical Instrument Co., Ltd. Yikeshi is a high-tech enterprise engaged in researching, developing, producing, and selling dental products, and it maintains a robust quality control system. Please read the entire instruction manual carefully to ensure that you can use the equipment correctly and safely.

1. Product introduction

1.1 Product introduction

This equipment is a portable Dental X-Ray Device, which is used to photograph teeth and obtain the Dental image information.

Features of this equipment:

a. Small, light, easy for doctors to carry

b. High quality and efficient user interface, making shooting easier

c. Low radiation and high efficiency, providing good user experience

1.2 Mode

Evoray

1.3 Configuration

Equipment configuration is detailed in packing list.

1.4 Software title and version

Evoray-V1.0

1.5 Structure and components

This product is mainly composed of an X-ray tube, control system, exposure handbrake, battery, power adapter, and beam-limiting cylinder.

1.6 Scope of application

This product is used for X-Ray photography of teeth to obtain images for clinical diagnosis.

1.7 Contraindications

Pregnant women and young children should not be exposed to the environment for a long time when the product works.

1.8 Equipment safety classification

1) Type of operation mode: Continuous operation with intermittent loading

2) Type of protection against electric shock: Class II equipment

3) Degree of protection against harmful ingress of water: Ordinary equipment (IPX0)

4) Degree of safety in the presence of a flammable anaesthetic mixture with air, oxygen, or nitrous oxide: Equipment must not be used in the presence of a flammable anaesthetic mixture with air, oxygen, or nitrous oxide.

1.9 Primary technical parameters

1) Power adapter input: ～100-240V 50/60Hz 2A

2) Internal power supply: DC 25.2V

3) Types of radiation: X-ray

4) Electric power:

Maximum power: 0.14kw（70kV, 2mA, 2s）

Nominal electric power: 0.14kw（70kV, 2mA, 2s）

5) Tube voltage: tube voltage output is fixed at 70kV, error ±10%

6) Tube current: tube current output is fixed at 2mA, error ±20%

7) Loading time: the exposure loading time adjustment range is 0.01s ～2s, the grade is adjustable, the grade is selected according to R'10 numerical system; with deviation ±(10%+1ms)

8) X-ray tube

a. X-ray tube model: D-045;

b. Focal spot: 0.4mm;

c. Target angle: 15°;

d. Total filtration: 1.5mmAl / 70 kV;

e. Additional filtration: 1mmAl / 70 kV;

9) Distance from focus to skin: 12.6cm

10) Output radiation field: Φ6cm±0.6cm

11) Product specifications

Dimension: 258mm × 115mm × 235mm

Weight: 1.68KG(X-Ray Device)，0.66KG(Base)

12) Battery specification

21.6V / 1100mAh ×1

1.10 Operation environment

1) Environment temperature: 10°C ~ 40°C

2) Relative humidity: 30% ~ 75%

3) Atmospheric pressure: 70kPa ~ 106kPa

1.11 Transportation and storage condition

1) Storage temperature: -20°C ~ 55°C

2) Transportation temperature: -20°C ~ 55°C

3) Relative humidity: 10% ~ 93%

4) Atmospheric pressure: 70kPa ~ 106kPa

2. Product installation and function description

2.1 Schematic diagram of the whole machine

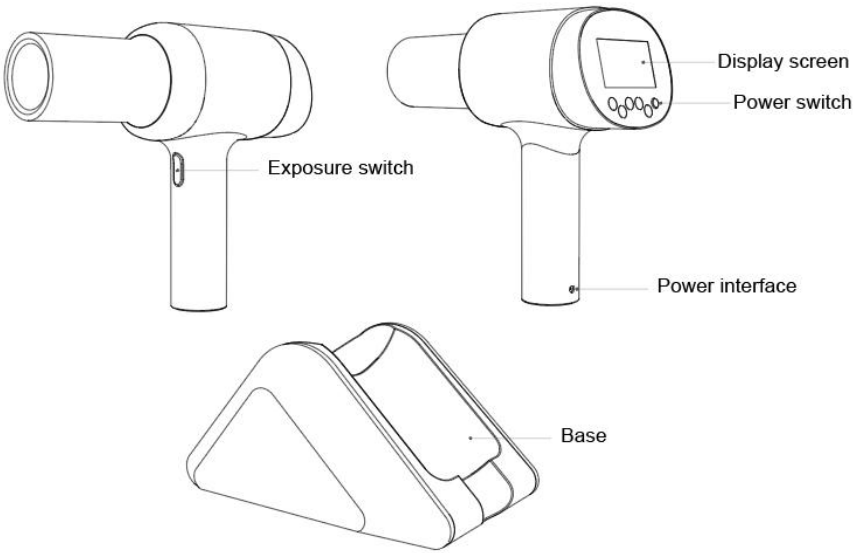


Figure 1 Schematic diagram of Dental X-Ray Device

2.2 Accessories installation

2.2.1 Installation area

Remove all the parts from the packaging. Take care not to drop or damage the equipment.

2.2.2 Power adapter installation

Remove the power adapter from the packaging box.

Figure 2 power adapter

Note :

Only the power adapter supplied with the equipment must be used.2.2.3 Exposure handbrake

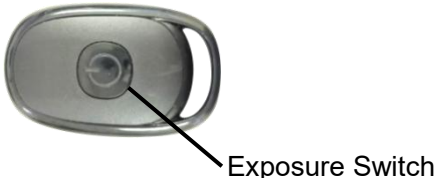


Figure 3 Exposure handbrake

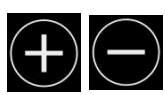
Note :

Press the exposure switch once to enter the ready exposure state, Then long press the exposure switch, the exposure starts light on.

2.2.4 Functions of the control panel

Figure 4 Control panel

Table 1 Icon list

S/ N	Icons	Function
1		**Patient selection:** Patients to be imaged include adults and children.
2		**Tooth position selection:** Choose the tooth position to be imaged.
3		Digital sensor/photographic film selection button
4		Digital sensor mode
5		Photographic film mode
6		**Battery power:** Displays the battery level.
7		Display of imaging angle
8		Display of X-ray exposure time
9		Exposure in progress
10		**X-ray exposure time setting:** “−” decreases exposure time; “+” increases exposure time.

3. Operation instruction

Users of the medical device must comply with relevant operating procedures and medical department regulations, and its use is restricted to trained doctors or technicians.

3.1 Preparation before shooting

1) Turn on the dental X-ray power switch; the LCD screen will light up, accompanied by a "beep" sound.

2) Check the equipment's battery to ensure normal operation.

3) Select the patient type, tooth position, and equipment mode.

4) Adjust the exposure time. The system has a default setting, but you can adjust it as required.

5) Prepare the film, image plate scanner (IP image plate), or digital intraoral X-ray imaging system (digital sensor).

3.2 Shooting images

1) A high-quality equipment of image receptor (film or IP image plate or sensor) in a sealed protective bag will be put in the patient's mouth, parallel to the longitudinal axis of the tooth. The effective surface of the equipment of image receptor is facing the tooth;

2) Move the Dental X-Ray Device to the teeth on the patient's face and adjust the position of the equipment and the patient according to the angle displayed on the screen;

3) Ensure that the light cone of the equipment of image receptor is perpendicular to the position of the IP image plate, Press the exposure switch once to enter the ready exposure state, Then long press the exposure switch, The X-ray Device began to expose;

4) When the exposure is finished and the image is taken successfully, remove the equipment of image receptor from the patient's mouth.

3.3 Shooting angle

3.3.1 Photograph angle reference values

Ensure the patient is in the proper sitting position and adjust the imaging angle of the dental X-ray device accordingly. The reference values for imaging angles are as follows:

Table 2 Shooting angle

Tooth position	X - ray tilt direction	Angle of tilt
Maxillary incisor position	Downtilt	+42°
Maxillary single canine position	Downtilt	+45°
Maxillary bicuspid and first molar	Downtilt	+30°
Maxillary second and third molars	Downtilt	+28°
Mandibular incisor position	Uptilt	-15°
Mandibular single canine position	Uptilt	-18°~ -20°
Mandibular bicuspid and first molar	Uptilt	-10°
Mandibular second and third molars	Uptilt	-5°

3.3.2 Description of Effective Occupied Area

The operator should designate a suitable area at the location of use; the floor space should be at least 60 cm × 60 cm, and the height should be at least 12.6 cm.

3.4 Software Operation Instructions

This chapter introduces the front panel of the dental X-ray device, which visually displays the operating interface, enabling the operator to use the machine more effectively.

3.4.1 Mode function

When different equipment modes, tooth positions, or patient types are selected, the control panel automatically displays the exposure time.

1) Equipment Mode

Click the equipment selection icon indicated by the arrow in Figure 5, and select the required image receptor equipment. There are two modes to choose from: digital sensor or film. The icon for the selected mode will light up, as shown in Figure 6.

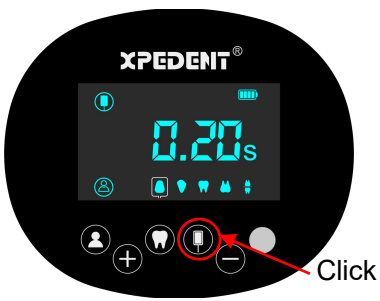


Figure 5

Figure 6

2) Human Body Mode

After selecting the equipment mode, select the patient type. Click the patient selection icon indicated by the arrow in Figure 7 to switch between adult and child modes. Different patient models can be selected according to the age of the patient. Once the selection is made, the patient model area will display the corresponding option.

Figure 7

Table 3 Human Body Mode

Icons	Mode
	Adult Mode
	Child Mode

3) Tooth Position Mode

Click the tooth position selection icon indicated by the arrow in Figure 8. Select the tooth type to be imaged, as shown in Figure 8. The box displays the currently selected tooth type, as shown in Figure 9.

Figure 8

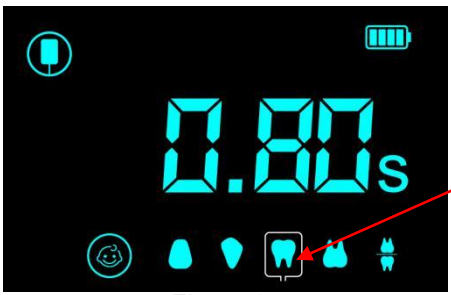


Figure 9

3.4.2 Setting of exposure time

If it is necessary to change the exposure time, click the “±” button to adjust it.

3.4.3 Exposure

1) Press the exposure switch once to enter the ready-to-expose state. At the same time, the screen will display the device's camera angle, as shown in Figure 10.

Figure 10

2) Adjust the position of the dental X-ray device and the patient according to the angle displayed on the screen. Then press and hold the exposure switch; the X-ray device will begin exposure. Simultaneously, the exposure icon lights up to indicate that the dental X-ray machine is operating, as shown in Figure 11.

Figure 11

3.5 Charging and battery maintenance

3.5.1 Charging Instructions:

1) Connect one end of the charger to the equipment's charging port and the other end to the mains power supply (100–240 V, 50/60 Hz).

2) During charging, the equipment displays a charging icon; when charging is complete, the battery is fully charged.

3) Disconnect the power supply and charger once charging is complete.

4) A full charge takes approximately two hours.

3.5.2 Battery maintenance

1) When the machine is not in use, turn off the power switch to conserve energy.

2) Use only the original charger provided to charge the battery.

3) Remove the battery from the equipment if it will not be used for an extended period, and charge it once every three months.

4) Keep the battery charge above 20%.

5) Avoid overcharging; do not charge the battery for more than 12 hours continuously.

6) Do not expose the battery to high temperatures or fire, and avoid direct sunlight when storing it.

7) If you find that the battery life no longer meets usage requirements, please contact the manufacturer or authorised dealers promptly to replace it.

3.6 The dental X-ray device shall never be used in the presence of flammable anaesthetic gas, pure oxygen, or nitrogen oxide to avoid any risk of explosion.

3.7 Patients and operators are advised to wear radiation protection when taking X-ray films, and the distance between the operators and dental X-ray device components should be at least 2 m.

3.8 The dental X-ray device and its accessories have been designed and developed to ensure the highest level of safety and performance. The use of accessories not provided by the original manufacturer may pose a risk to patients, users, or the equipment itself.

3.9 The equipment complies with the IEC 60601-1 standard. Only peripheral equipment conforming to IEC 60950-1 may be connected to it to avoid any risk of failure of the dental X-ray device.

3.10 Our company specialises in the production of medical equipment. We are responsible for the safety of the equipment only when maintenance, repair, and modification of the machine are carried out by our company or our authorised dealers, and when replacement parts are Yikeshi accessories operated according to the operating instructions.

3.11 Other safety information can be found in each chapter of this instruction manual. Please read the whole manual carefully.

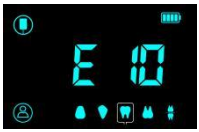
3.12 To ensure safe and correct operation of the dental X-ray device, it is important to use the charger provided with the equipment. The power cord of the dental X-ray device can only be replaced with the same type of cord.

3.13 Due to electromagnetic emissions from the X-ray generator, other nearby equipment may be affected during use. There is a risk of malfunction of nearby equipment.

3.14 Conversely, due to electromagnetic interference, the use of other equipment may interfere with our product.

4. Troubleshooting

Fault	Reason	Solution
	Memory and parameters are abnormal	Contact your dealer for repairs
	kV overvoltage	Contact your dealer for repairs
	mA overload	Contact your dealer for repairs
	Filament failure	Contact your dealer for repairs
	OCP fault	Contact your dealer for repairs
	Total hardware failure	Contact your dealer for repairs
	KV rise slowly	Contact your dealer for repairs

	KV feedback anomaly	Contact your dealer for repairs
	mA feedback anomaly	Contact your dealer for repairs
	The X-ray tube is faulty	Contact your dealer for repairs
	The exposure switch has not been released	Release the exposure switch and attempt the exposure again
	The exposure terminated prematurely; the handbrake was released early, resulting in insufficient exposure	Please attempt the exposure again
	Power supply issue	Contact your dealer for repairs

If the above methods do not resolve the fault, please contact your distributor to return the equipment to the manufacturer for servicing. Do not attempt to open the casing or repair the equipment yourself.

5. Maintain maintenance

Before the first use of this equipment, a complete cleaning procedure must be followed. The dental X-ray device must be disconnected from the power supply before each cleaning and disinfection.

5.1 Cleaning

1) Wipe the casing of the product and the head of the X-ray machine with non-abrasive materials (gauze or soft cloth) dampened with detergent. Be careful not to allow liquid to seep into the equipment.

2) Dry the equipment with a clean, dry and soft cloth.

5.2 Maintainance

Immerse a clean piece of gauze in 70%–80% ethanol disinfectant, then wipe the disinfected parts twice with the soaked gauze.

1) Let the equipment air dry naturally or dry it with a clean, dry, soft cloth.
   Caution: Do not use the following disinfection methods:

2) Do not use organic solvents or corrosive cleaning products to clean the dental X-ray device.

3) Do not spray detergent directly onto the dental X-ray device.

4) Do not use organic solvents or corrosive disinfectants to disinfect the dental X-ray device.

5) Do not spray disinfectant directly onto the dental X-ray device.

6. X-ray tube characteristics

Filament voltage: 2.35-3.35V

Maximum filament current: 2.0A

Nominal anode input power: 0.2KW (1s)

Anode heat capacity: 5.3KJ

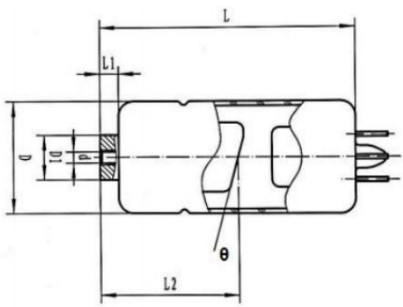
Maximum anode heat dissipation: 80W

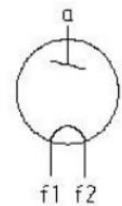
Overall dimension and wiring: as shown in Figure 12

Maximum rated value: as shown in Figure 13

Thermal characteristics: see Figure 14

Filament and emission characteristics: see Figure 15





a--anode lead

f1、f2---Filament lead

Figure 12 Mechanical dimension machine wiring

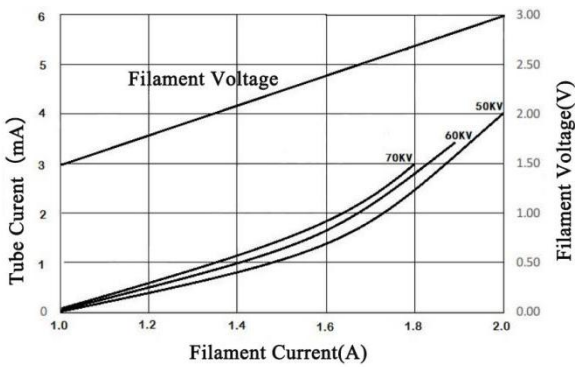


Figure 13 Maximum rating diagram

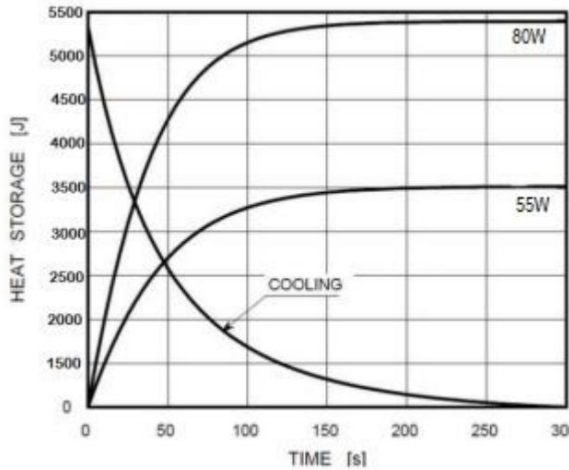


Figure 14 X-ray tube anode heating and cooling curve

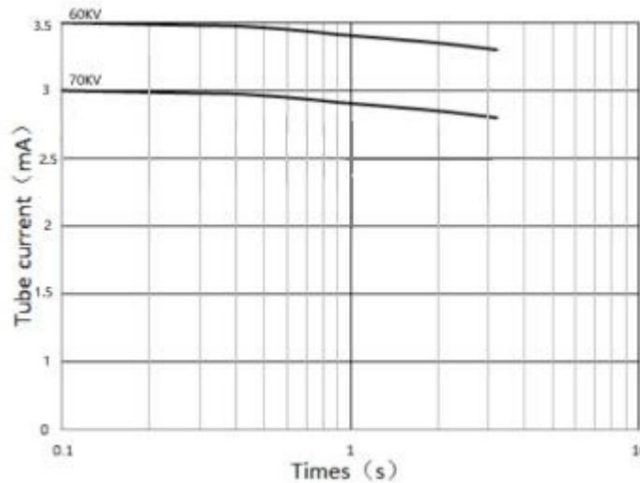


Figure 15 Filament and emission characteristic curve

7. Storage, Maintenance, and Transportation

7.1 Storage and Maintenance

1) Handle the equipment with care, keeping it away from seismic centres, and store it in a cool, dry, and well-ventilated place.
2) Do not store the equipment alongside toxic, corrosive, flammable, or explosive substances.
3) When the equipment is not in use for extended periods, switch off the power and unplug it.
4) The equipment should be stored in an environment with relative humidity of 10%–93%, atmospheric pressure of 70 kPa to 106 kPa, and temperatures between -20 °C and +55 °C.
5) After each use, inspect the equipment for any signs of scratches, wear, or mechanical damage.

7.2 Transportation

1) Avoid excessive shock and vibration during transportation, and handle with care to prevent inversion.
2) Do not transport the equipment with dangerous goods.
3) Protect the equipment from sun exposure, rain, or snow during transportation.

8. Environment Protection

This equipment cannot be disposed of as household waste. It must be placed in a designated recycling facility for electronic medical equipment. For more detailed information about equipment disposal and recycling, please contact your dental equipment dealer.

Part	Toxic or harmful substances or elements					
	(Pb)	(Hg)	(Cd)	(Cr6+)	(PBB)	(PBDE)
Power adapter	O	O	O	O	O	O
Main unit	O	O	O	O	O	O
Mechanical elements, including bolts, nuts, washers, etc.	O	O	O	O	O	O

○: Indicates that the content of the toxic substance in all homogeneous materials of the part is below the limit requirement stipulated in SJ/T-11363- 2006 “Marking for Control of Pollution Caused by Electronic Information Products”.

×: Indicates that the content of the toxic substance in at least one of the homogeneous materials of the part exceeds the limit requirement specified in SJ/T-11363-2006.

(This product meets EU RoHS environmental protection requirements; there is currently no mature technology in the world to replace or reduce the content of lead in electronic ceramics, optical glass, steel and copper alloy.) According to the “Administrative Measures on the Restriction of the Use of Hazardous Substances in Electric and Electronic Products” and the “Regulations on the Administration of the Recycling and Disposal of waste Electrical Appliances and Electronic Products” and related standards, please observe the safety and precautions of the products, and please recycle or dispose this product according to the methods in local laws and regulations after use.

9. After-sales Service

From the date of sale, if the equipment fails to operate normally due to quality issues, our company will be responsible for maintenance as per the warranty card. Please refer to the warranty card for details on the warranty period and coverage. This product contains no user-serviceable parts, and maintenance should only be performed by authorised professionals or designated repair centres.

10. Electromagnetic Compatibility

Special precautions must be taken regarding the electromagnetic compatibility (EMC) of this equipment, and it must be installed and operated in accordance with the EMC information provided in this manual. Portable and mobile radio frequency communication equipment may interfere with this equipment. The following cables must be used to comply with electromagnetic emission and interference requirements:

Name	Cable length	Shielded or not	Remark
Power adapter cable	1.2m	No	/

In addition to cables (transducers) sold as spare parts for internal components, the use of accessories and cables (transducers) not specified may result in increased emissions or reduced immunity of the equipment or system.

The equipment or system should not be used near or stacked with other equipment. If it must be used in this manner, it should be monitored to ensure it operates normally under the specified configuration.

10.1 Guidance and manufacturer's declaration-electromagnetic emission

<table>
<tr><td colspan="3">Guidance and manufacturer's declaration-electromagnetic emission</td></tr>
<tr><td colspan="3">The Dental X-Ray Device is intended for the use in the electromagnetic environment specified below. The customer or the user should assure that it is used in such an electromagnetic environment.</td></tr>
<tr><td>Emission test</td><td>Compliance</td><td>Electromagnetic environment-guidance</td></tr>
<tr><td>RF emission
CISPR 11</td><td>Group 1</td><td>The Dental X-Ray Device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference to nearby electronic equipment.</td></tr>
<tr><td>RF emission
CISPR 11</td><td>Group B</td><td rowspan="3">The Dental X-Ray Device is suitable for used in all establishments, including domestic establishments and establishments directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.</td></tr>
<tr><td>Harmonic emission IEC 61000-3-2</td><td>Group A</td></tr>
<tr><td>Voltage fluctuation/ flicker emission

IEC 61000-3-2</td><td>Complied</td></tr>
</table>

10.2 Guidance and manufacturer's declaration-electromagnetic immunity

Guidance and manufacturer's declaration-electromagnetic immunity			
The Dental X-Ray Device is intended for the use in the electromagnetic environment specified below. The customer or the user should assure that it is used in such an electromagnetic environment.			
Immunity test	Test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge IEC 61000-4-2	±6kV contact discharge ±8kV air discharge	±6kV contact discharge ±8kV air discharge	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	±2kV for power supply lines ±1kV for input/output lines	±2kV for power supply lines ±1kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-4	±1kV DMV ±2kV CMV	±1kV DMV ±2kV CMV	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	<5% UT (>95% dip in UT.) for 0.5 cycle 40 % UT (60% dip in UT.) for 5 cycles 70 % UT (30% dip in UT.) for 25 cycles 95% dip in UT.) for 5s	<5% UT (>95% dip in UT.) for 0.5 cycle 40 % UT (60% dip in UT.) for 5 cycles 70 % UT (30% dip in UT.) for 25 cycles 95% dip in UT.) for 5s	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Dental X-Ray Device requires continued operation during power mains interruptions, it is recommended that the Dental X-Ray Device be powered from an uninterruptible power supply or a battery.
Power frequency magnetic field (50Hz) IEC 61000-4-8	3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE: UT refers to the AC mains voltage prior to application of the test level.			

Guidance and manufacturer's declaration-electromagnetic immunity			
The Dental X-Ray Device is intended for the use in the electromagnetic environment specified below. The customer or the user should assure that it is used in such an environment.			
Immunity test	Test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3Vrms 150kHz ~80MHz 3V/m 80MHz ~2.5GHz	3Vrms 3V/m	Portable and mobile RF communication equipment should be used not closer to any part of the Dental X-Ray Device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance d = $1.2\sqrt{P}$ 150kHz~80MHz d = $1.2\sqrt{P}$ 80MHz~8$_0$0MHz d = 23F 800MHz~2.5GHz where "P" is the maximum output rated power of the transmitter provided by the transmitter manufacturer in watts (W) and "d" is the recommended separation distance in meters (m). Field strengths of b fixed RF transmitters is determined by an electromagnetic site survey of a, and frequency range b should be less than the compliance level in each. Interference may occurs in the vicinity of equipment marked with the following symbol: 

NOTE1:
At 80 MHz and 800 MHz, the formula of higher frequency range is applied.
NOTE2:
These guidelines may not be suitable for all situations. Electromagnetic propagation is affected by the absorption and emission from buildings, objects and human bodies.

a. Field strengths of a 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 Dental X-Ray Device is used exceeds the applicable RF compliance level above, the Dental X-Ray Device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Dental X-Ray Device.
b. In the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.

10.3 Guidance and manufacturer's declaration-electromagnetic immunity

10.4 Recommended separation distances between RF communications equipment and Dental X-Ray Device

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

Rated maximumoutput power of transmitter/W	Separation distance according to frequency of transmitter/m		
	150kHz ~80MHz d = 12JP	80MHz ~800MHz d = 12JP	800MHz ~2.5GHz d = 23p
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 the rated maximum output power of transmitters not listed in the above table, the recommended separation distance “d” (m) can be determined by the formula in the corresponding transmitter frequency column. Where “P” is the maximum output rated power of the transmitter in watts (W) provided by the transmitter manufacturer.

NOTE 1: At 80 MHz and 800 MHz, the formula of higher frequency range is applied.

NOTE 2: These guidelines may not be suitable for all situations. Electromagnetic propagation is affected by the absorption and emission from buildings, objects and human bodies.

Notes:

Without the explicit consent of Yikeshi, unauthorised changes or modifications to the equipment may cause electromagnetic compatibility issues with this equipment or other devices.

11. Symbol instruction

	Manufacturer		Serial number
	Attention!Access to accompanying files		Item number
	Class Ⅱ equipment		Ordinary equipment
	Avoid sun exposure		Products comply with WEEE directive
	Danger! High voltage		Electrostatic Discharge Sensitive Device (ESDS)
	Date of manufacture		X-ray, beware of ionizing radiation
	Products comply with WEEE directive		Follow the manual
	Humidity limit for storage: 10% ~ 93%		
	Atmospheric pressure for storage: 70kPa ~ 106kPa		
	Temperature limit for storage: -20°C ~ +55°C		

12. Statement

Please refer to the product packaging label for the production date, service life: 10 years

Cut along the dashed line

Warranty Card

Name of Customer		(I) For Distributor
Address Details		
Postal Code		
Tel		
Model		
Machine ID		
Purchase Date		
Contact Person		
Date	Maintenance Record	Repairer

Guilin Yikeshi Medical Instrument Co.,Ltd.
D-8,Guilin National High-tech Zone Information Industrial Park, Chaoyang Road,Qixing District,Guilin,Guangxi,541004,P.R.China
Postal Code: 541004
Tel: 0086 0773 5805522
Fax: 0086 0773 5805522
Email: sales@xpediency.cn
Website: www.xpedent-intl.com

Distributor:

Seal

Warranty Card

Name of Customer		(II) Return to Manufacturer
Address Details		
Postal Code		
Tel		
Model		
Machine ID		
Purchase Date		
Contact Person		
Date	Maintenance Record	Repairer

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Seal

Warranty Instruction

I Period validity

Terms of service: We offer 12 months warranty repair to the equipment based on the date of sale on the warranty card, and charged maintenance for the life of the product.

II Range of warranty

Within the warranty period of validity, we are responsible for any troubles caused by quality problems or products technique and structure.

III The following are beyond our warranty

1. The damage caused by disobeying the operation instruction or lack of the needed condition.

2. The damage caused by unsuitable operation or disassembly without authorization.

3. The damage on product that caused by users' unexpected drop or impact to product.

4. The damage caused by unadvisable transportation or preservation.

5. There isn't the seal of distributor or the warranty card isn't filled in completed.

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