

# **Ai Ray Dental X-Ray Device Instruction Manual**

Please carefully read this manual before operating.

**Guilin Woodpecker Medical Instrument Co., Ltd.**

# Contents

Preface-----	1
1. Product introduction-----	1
2. Product installation and function description -----	3
3. Operation instruction-----	5
4. Troubleshooting-----	11
5 Maintain maintenance-----	12
6 X-ray tube characteristics -----	12
8 Storage, maintenance and transportation -----	14
9. Environment protection-----	15
10. After-sales service-----	15
11. Electromagnetic compatibility-----	16
12 Symbol instruction-----	21
13 Statement-----	22

## **Preface**

Thank you for purchasing the Dental X-ray Device produced by Guilin Woodpecker Medical Instrument Co., Ltd. Woodpecker is a high-tech enterprise researching, developing, producing and selling Dental products, and it owns a sound quality control system. Please read the full text of the 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:

- 1) Small, light, easy for doctors to carry;
- 2) High quality and efficient user interface, making shooting easier;
- 3) Low radiation and high efficiency, providing good user experience;

### 1.2 Model

Ai Ray

### 1.3 Configuration

Equipment configuration is detailed in packing list.

### 1.4 Software title and version

Ai Ray V1

### 1.5 Structure and components

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

### 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 application in the presence of a flammable anesthetic

mixture with air, oxygen, or nitrous oxide: Equipment can't be used in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide.

### 1.9 Primary technical parameters

1. Power adapter input:  $\sim 100\text{-}240\text{V } 50/60\text{Hz } 1.5\text{A}$
2. Internal power supply: DC 10.8V
3. Types of radiation: X-ray
4. Electric power:  
Maximum power: 0.21kw (70kV, 3mA, 0.1s)  
Nominal electric power: 0.21kw (70kV, 3mA, 0.1s)
5. Tube voltage: tube voltage output is fixed at 70kV, error  $\pm 10\%$
6. Tube current: tube current output is fixed at 3mA, error  $\pm 20\%$
7. Loading time: the exposure loading time adjustment range is 0.02s  $\sim 2\text{s}$ , the grade is adjustable, the grade is selected according to R'10 numerical system; with deviation  $\pm(10\%+1\text{ms})$
8. X-ray tube
  - a) X-ray tube model: D-045;
  - b) Focal spot: 0.4mm;
  - c) Target angle:  $12.5^\circ$ ;
  - d) Total filtration: 1.5mmAl/70 kV;
  - e) Additional filtration: 0.5mmAl/70 kV
9. Distance from focus to skin: 20cm
10. Output radiation field:  $\Phi 6\text{cm} \pm 0.6\text{cm}$
11. Product specifications  
Dimension: 114mm $\times$ 363.8mm $\times$ 245.6mm  
Weight: 2.4KG
12. Battery specification  
10.8V/2450 $\sim$ 2500mAh  $\times 2$

### 1.10 Operation environment

Environment temperature:  $10^\circ\text{C} \sim 40^\circ\text{C}$   
Relative humidity: 30%  $\sim 75\%$   
Atmospheric pressure: 70kPa  $\sim 106\text{kPa}$

### 1.11 Transportation and storage condition

Storage temperature:  $-20^\circ\text{C} \sim 55^\circ\text{C}$   
Transportation temperature:  $-20^\circ\text{C} \sim 55^\circ\text{C}$   
Relative humidity: 10%  $\sim 93\%$   
Atmospheric pressure: 70kPa  $\sim 106\text{kPa}$

## **2. Product installation and function description**

### 2.1 Schematic diagram of the whole machine

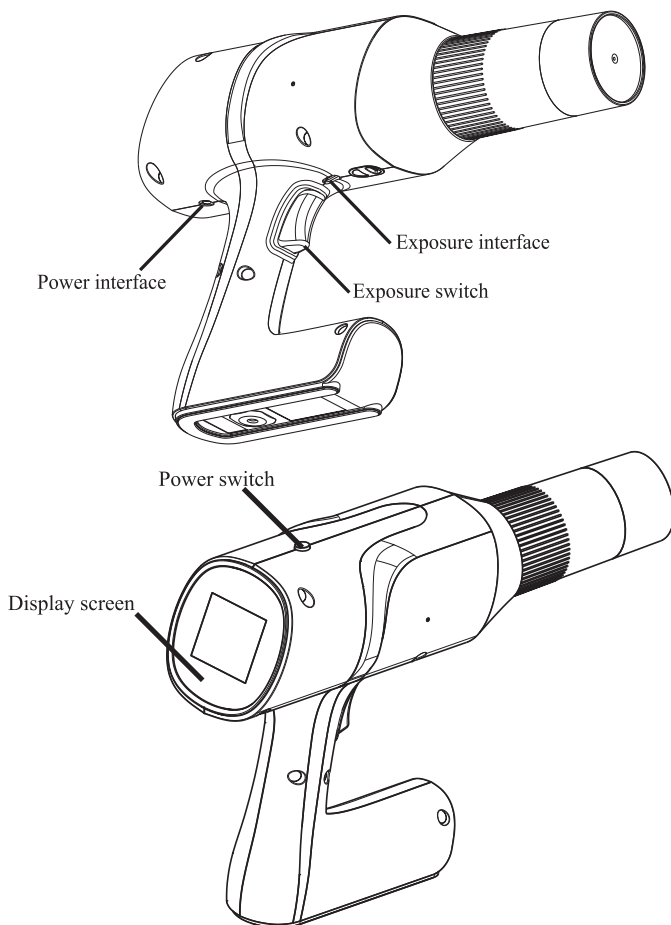


Figure 1 Schematic diagram of Dental X-Ray Device

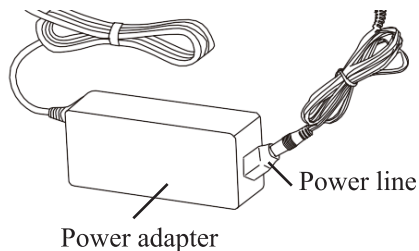
### 2.2 Accessories installation

#### 2.2.1 Installation area

Take out all the parts from the packing box. Be careful not to drop or damage the equipment.

#### 2.2.2 Power adapter installation

Take out the power adapter and power line from the packing box and connect them as shown in the figure.



[Note] Only the power adapter and power line provided with the equipment can be used

### 2.2.3 Exposure handbrake

## 2.3 Installation

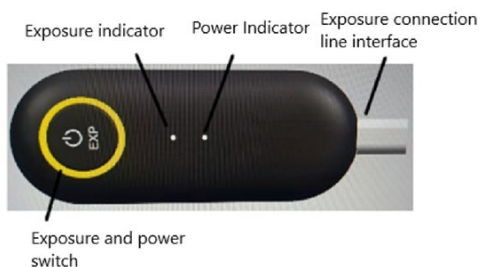


Figure 3 Exposure hand brake

Note: ① wired connection mode: Long press the switch of exposure hand brake, the exposure starts light on.

### 2.2.4 Functions of the control panel

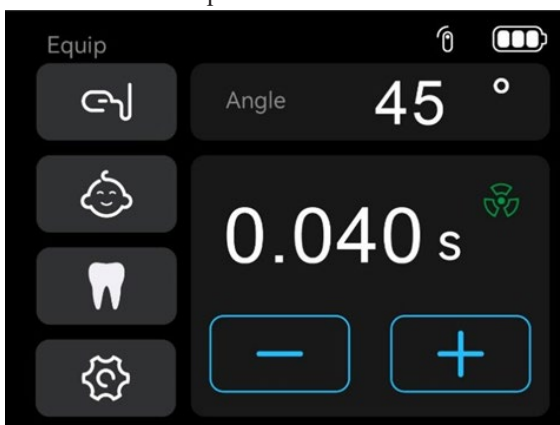










Figure 4 Control panel

Table 1

S/ N	Icons	Function
1		Selection of equipment: equipment of image receptor for Digital Intraoral X-ray Imaging System, film and image plate scanner (IP image plate)
2		Selection of human body: The patients shot include adults/ children
3		Selection of tooth position : selection of tooth position shot.
4		Connection mode: Wired connection mode of the exposure handbrake
5		Battery power: display of battery power
6		Setting function
7	Angle 45 °	Display of shooting angle
8	0.040 s	Display of X-ray exposure time
9		Indication of X-ray exposure status (normal (no color): not ready, green color: ready, yellow color: being exposed)
10		Time setting of X-ray exposure , “-” decreases time of exposure , “+” increases time of exposure

### 3.3.2 Description of Effective Occupied Area

The operator should designate any valid occupied area in the place of use, the floor size should not be less than 60cm×60cm, and the height should not be less than 200cm.

## 3. Operation instruction

The user of the medical device must comply with the requirements of the relevant operating regulations and relevant regulations of the medical department, and is limited to the use of trained doctors or technicians.

### 3.1 Preparation before shooting

1. Turn on the Dental X-ray power switch, the LCD screen lights up, accompanied by a beeper "di" sound prompt;
2. Check the battery of the equipment to ensure the normal operation of the

equipment;

3. Select the human body, tooth position and the equipment mode;
4. Adjust the exposure time. The system has a default exposure time, or adjust the shooting time as required;
5. Prepare film or image plate scanner (IP image plate) or Digital Intraoral X-ray Imaging System (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 X-ray machine shooting switch; the exposure key should be pressed for the whole process until the "di" sound prompt of the beeper occurs;
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

Keep the patient in the correct sitting position and adjust the correct shooting angle of the Dental X-Ray Device. The photograph angle reference values are as follows:

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°

### 3.4 Software Operation Instructions

This chapter introduces the front panel of the Dental X-Ray Device, which visually displays the operation interface, so that the operator can better use the machine.



### 3.4.1 Mode function

When different modes of the equipment, tooth positions and human bodies are selected, the control panel automatically displays the exposure time.

#### 1. Equipment Mode

Click the icon of equipment selection in the arrow indication in Figure 5 to enter the equipment interface as shown in Figure 6. Select the required equipment of image receptor, and the corresponding area of the equipment is displayed in blue. After the selection is successful, it will automatically exit to the interface in Figure 5, and the device selection icon will change to the corresponding device icon.

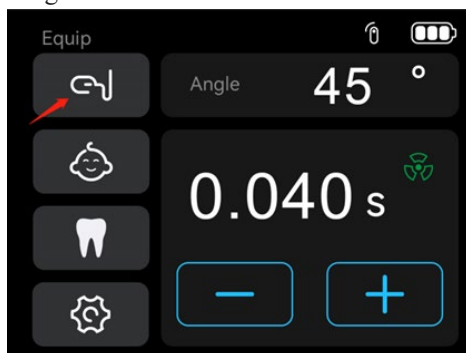


Figure 5

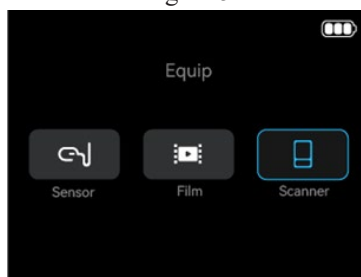


Figure 6

#### 2. Human Body Mode

After selecting the equipment mode, select human body mode. Click the human body selection icon indicated by the arrow in Figure 7 to switch back and forth between adult and child modes. Different human body models can be selected according to the age of the patient. After the selection is successful, the human body model area will display the corresponding options.

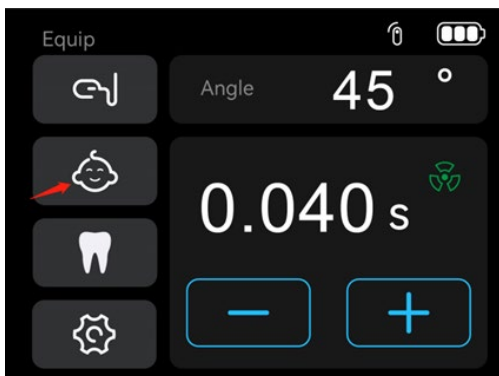




Figure 7

Table 2 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, enter the interface of the tooth position as shown in Figure 9. Select the tooth type to be shot, and the corresponding area of the tooth is displayed in blue. After the selection is successful, it will automatically exit to the interface in Figure 8, and the tooth position selection icon will change to the corresponding tooth position icon.

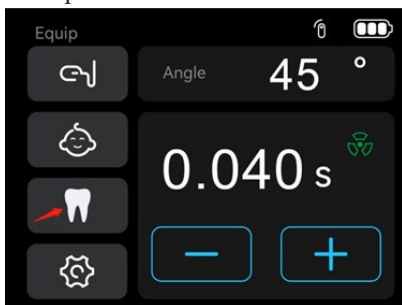


Figure 8

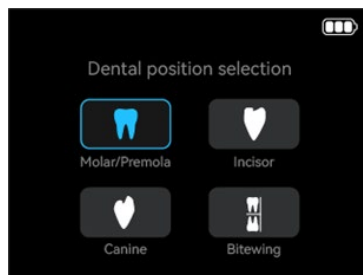


Figure 9

### 3.4.2 Setting function

Click the setting icon indicated by the arrow in Figure 10 to enter the setting interface. Different languages and factory modes can be set as shown in Figure 11. After the setting is successful, it will automatically exit to the Figure 10 interface.

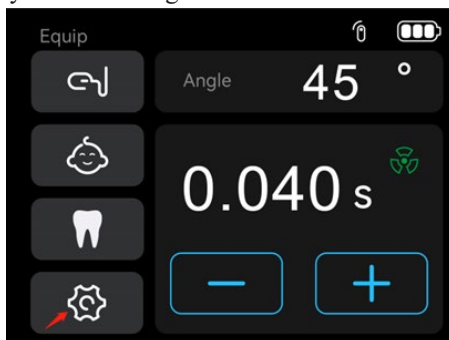


Figure 10

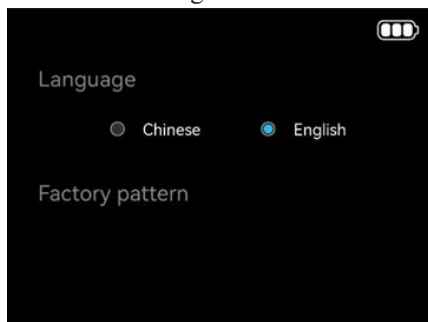


Figure 11

### 3.4.3 Setting of exposure time

If there is required to change the exposure time, click the “±” button to

adjust the exposure time from 0.04 second to 1 second. The exposure time can be adjusted from 0.04 seconds to 1 second in 15 steps.

#### 3.4.4 Exposure

1. Long press the exposure switch of Dental X-Ray device to carry out exposure. See Table 3 for different states of exposure icons on the screen.
2. Long press the exposure button on the exposure handbrake to carry out exposure. During exposure, the exposure indication light of the exposure handbrake will be on. See Table 3 for different states of the exposure icon on the screen.

Table 3

Exposure icon	State
	Not ready
	Being exposed
	Ready

### 3.5 Charging and battery maintenance

#### 3.5.1 Charging

1. Connect one end of the charger to the charging port of the equipment and the other end to the power supply of the network (100-240V, 50/60Hz);
2. When charging, the equipment displays the charging icon, and when charging is finished, the battery is charged fully;
3. Disconnect the power supply and the charger when the charging is complete;
4. A single charge takes about 4 hours.

#### 3.5.2 Battery maintenance

1. When the machine is not in use, the power switch should be turned off to save electrical energy;
  2. Please use the original charger to charge;
  3. Separate the battery from the equipment when it is not used for a long time, and charge it once every three months;
  4. Keep the electrical energy more than 20%;
  5. High position and single charge over 12 hours should be avoided;
  6. Avoid exposing the battery to high temperature or fire, and avoid direct sunlight when storing the battery.
  7. If you find that the battery life cannot meet the needs of use, please contact the manufacturer and authorized dealers in time to replace the new battery.
- Notes

3.6 The Dental X-Ray Device shall never be used in the presence of flammable anesthetic gas, pure oxygen or nitrogen oxide to avoid any risk of explosion.

3.7 Patients and operators are advised to wear radiation protector when taking X films; and the distance between the operators and Dental X-Ray Device components should be  $\geq 2\text{m}$ .

3.8 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 can be connected to it so as to avoid any risk of failure of the Dental X-Ray Device.

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

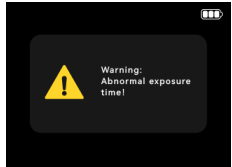
3.11 Other safety information can be found in each chapter of this instruction manual. Please read the whole manual carefully.



3.12 In order to ensure safe and correct operation and use of the Dental X-Ray Device, it is quite important to use the charger provided by the equipment. The power line of the Dental X-Ray Device can only be replaced by the same type of line.

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

3.14 Due to electromagnetic compatibility, the use of other equipment may interfere with the our product.

## 4. Troubleshooting

Fault	Reason	Solution
 A screenshot of a device's warning screen. It features a yellow triangle with a black exclamation mark on a black background. To the right of the triangle, the text reads: "Warning: Abnormal exposure time!".	Exposure button is not pressed all the time during exposure	Press the exposure button once and use it after the warning disappears

 <p>Warning: High temperature</p>	<p>The temperature of equipment is too high</p>	<p>Equipment is cooled down before use</p>
 <p>Warning: High voltage</p>	<p>The voltage of equipment is too high</p>	<p>Restart the machine, if the fault still exists, please contact the manufacturer</p>

If the above methods can not eliminate the fault, please contact the distributor to return the equipment to the manufacturer for handling. Do not try to open the casing of this equipment and repair it yourself.

## 5 Maintain maintenance

Before the first use of this equipment, a complete cleaning procedure must be followed. The Dental X-Ray Device should be disconnected from the power supply before cleaning and disinfection each time.

### 5.1 Cleaning

- Wipe the shell of the product and the head of the X-ray machine with non-abrasive materials (gauze and soft cloth) dipped with detergent, and pay attention not to allow liquid to flow into the equipment;
- Dry the equipment with a clean, dry and soft cloth.

### 5.2 maintainance

- Immerse a piece of clean dry gauze in 70% -80% ethanol disinfectant, and then wipe the disinfected parts twice with soaked dry gauze;
  - Dry the equipment naturally or with a clean, dry and soft cloth.
- Caution: Do not use the following methods of disinfection
- Do not use organic solvents or corrosive cleaning products to clean the Dental X-Ray Device;
  - Do not spray detergent directly on the Dental X-Ray Device;
  - Do not use organic solvent or corrosive disinfectant to disinfect the Dental X-Ray Device;
  - Do not spray disinfectant directly on the Dental X-Ray Device;

## 6 X-ray tube characteristics

Filament voltage: 3.0-3.7V

Maximum filament current: 3.0A

Filament frequency: DC/ AC sine wave (0-20kHz)  
 Nominal anode input power: 585W (1s)  
 Anode heat capacity: 4300J  
 Maximum anode heat dissipation: 100W  
 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

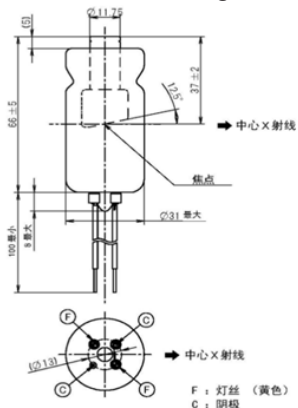


Figure 12 Mechanical dimension machine wiring

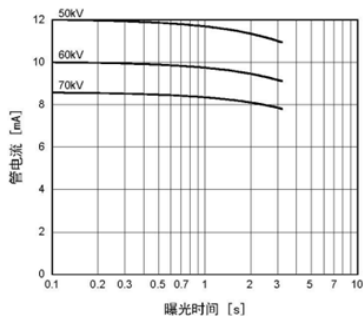


Figure 13 Maximum rating diagram

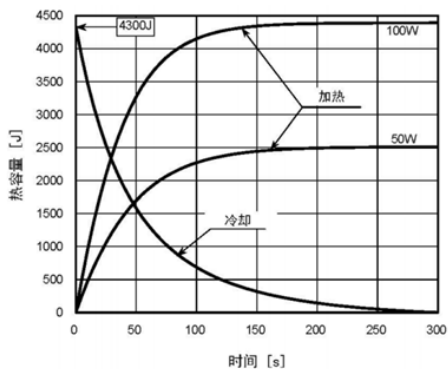


Figure 14 X-ray tube anode heating and cooling curve

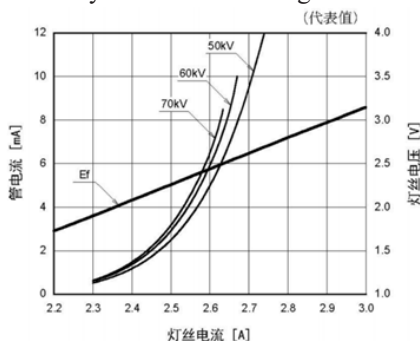


Figure 15 Filament and emission characteristic curve

## 8 Storage, maintenance and transportation

### 8.1 Storage/ maintenance

- 1) The equipment shall be handled with care, away from the hypocenter, and shall be installed or stored in a cool, dry and ventilated place.
- 2) Do not store with toxic, corrosive, flammable and explosive substances.
- 3) When the equipment is not used for a long time, turn off the power switch and unplug the power plug.
- 4) The product shall be stored in an environment with relative humidity of 10% -93%, atmospheric pressure of 70kPa ~ 106kPa and temperature of -20 °C ~ + 55 °C.
- 5) Inspect the equipment for scratches, wear and other mechanical scratches or damage after each use.

### 8.2 Transportation

- 1) Avoid excessive shock and vibration during transportation, and handle



with care to avoid inversion;

2) It shall not be mixed with dangerous goods during transportation;

3) Avoid sun exposure or rain and snow immersion during transportation;

## 9. Environment protection

This equipment can't be disposed of as household waste. Therefore, this equipment should be placed in a special recycling place for waste electronic medical equipment. For more detailed information about equipment disposal and recycling, please contact the Dental equipment dealer.

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

○: 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.

## 10. After-sales service

Since the date of sale, if the equipment fails to work normally due to quality problems, our company will be responsible for the maintenance

based on the warranty card. Please refer to the warranty card for the warranty period and scope. This product does not contain self-maintained parts, and the maintenance of this equipment should be carried out by designated professionals or special repair shops.

## **11. Electromagnetic compatibility**

For this equipment, special precautions regarding electromagnetic compatibility (EMC) must be taken, and the installation and use must be performed according to the electromagnetic compatibility information specified in this manual. Portable and mobile radio frequency communication equipment may affect this equipment. The following cables must be used to meet electromagnetic emission and anti-interference requirements:

Name	Cable length	Shielded or not	Remark
Power adapter cable	1.2m	No	/
DC cable	1.5m	No	/
Connection line of exposure handbrake	8.0m	No	/

In addition to cables (transducers) sold as spare parts of internal components, the use of accessories and cables (transducers) other than those specified may result in increased emission or reduced immunity of the equipment or system.

The equipment or system should not be used close to or stacked with other equipment. If it is required to be used in this way, it should be observed to verify that it can operate normally under the configuration used.

### 11.1 Guidance and manufacturer's declaration-electromagnetic emission

#### **Guidance and manufacturer's declaration-electromagnetic emission**

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.

Emission test	Compliance	Electromagnetic environment-guidance
RF emission CISPR 11	Group 1	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.

RF emission CISPR 11	Group B	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.
Harmonic emission IEC 61000-3-2	Group A	
Voltage fluctuation/ flicker emission IEC 61000-3-2	Complied	


## 11.2 Guidance and manufacturer's declaration-electromagnetic immunity

<b>Guidance and manufacturer's declaration-electromagnetic immunity</b>			
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 5cycles 70 % UT (30% dip in UT.) for 25cycles 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: $U_T$ refers to the AC mains voltage prior to application of the test level.			

### 11.3 Guidance and manufacturer's declaration-electromagnetic immunity

<b>Guidance and manufacturer's declaration-electromagnetic immunity</b>			
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

<p>Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3</p>	<p>3Vrms 150kHz ~80MHz 3V/m 80MHz ~2.5GHz</p>	<p>3Vrms 3V/m</p>	<p>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  <math>d = 1.2\sqrt{P}</math> 150kHz~80MHz  <math>d = 1.2\sqrt{P}</math> 80MHz~800MHz  <math>d = 2.3\sqrt{P}</math> 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:  </p>
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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.

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

<b>Recommended separation distances between portable and mobile RF communications equipment and the Dental X-Ray Device</b>			
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 maximum output power of transmitter /W	Separation distance according to frequency of transmitter/ m		
	150kHz~80MHz $d = 1.2\sqrt{P}$	80MHz~800MHz $d = 1.2\sqrt{P}$	800MHz~2.5GHz $d = 2.3\sqrt{P}$
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 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 Woodpecker, unauthorized changes or modifications to the equipment may cause electromagnetic compatibility problems of this equipment or other equipment.


## 12 Symbol instruction

	Manufacturer		Serial number
	Attention! Access to accompanying files		Item number
	Class II equipment	<b>IPX0</b>	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		

## **13 Statement**

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



Cut along the dashed line 

### Dental X-Ray Device Warranty Card

Name of Customer		( I ) For Distributor	
Address Details			
Postal Code			
Tel			
Model			
Unit No.			
Purchase Date			
Contact Person			
Date	Maintenance Record		Repairer

 Guilin Woodpecker Medical Instrument Co.,Ltd.  
 Information Industrial Park,Guilin National High-Tech  
 Zone,Guilin,Guangxi,541004 P.R.China  
 Sales Dept: +86-773-5873196/2350599  
 After-sales Service Dept: 0773-5827898  
 E-mail: woodpecker4@glwoodpecker.com  
 Website: <http://www.glwoodpecker.com>

Distributor:
Seal

### Dental X-Ray Device Warranty Card

Name of Customer		( II ) Return to Manufacturer	
Address Details			
Postal Code			
Tel			
Model			
Unit No.			
Purchase Date			
Contact Person			
Date	Maintenance Record		Repairer

 Guilin Woodpecker Medical Instrument Co.,Ltd.  
 Information Industrial Park,Guilin National High-Tech  
 Zone,Guilin,Guangxi,541004 P.R.China  
 Sales Dept: +86-773-5873196/2350599  
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 E-mail: woodpecker4@glwoodpecker.com  
 Website: <http://www.glwoodpecker.com>

Distributor:
Seal

### **Warranty Instruction**

#### **I Period validity:**

Since the date of sale, with a warranty card ,this product enjoys 1 years warranty for the main unit.

#### **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 caused by unadvisable transportation or preservation.
- 4.There isn't the seal of distributor or the warranty card isn't filled in completed.

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Scan and Login website  
for more information



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Website: <http://www.glwoodpecker.com>

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