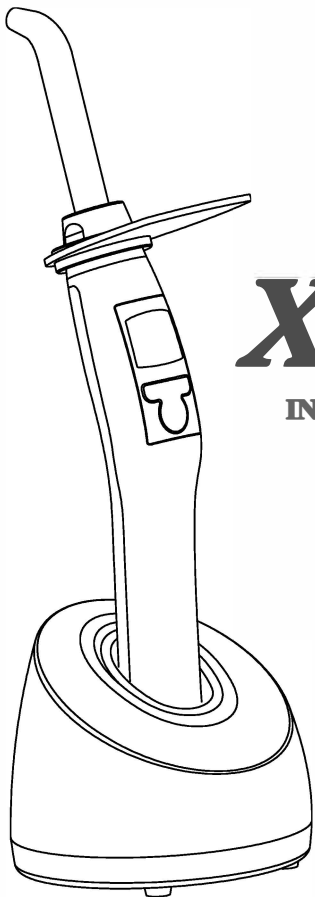


CE



X-Cure

INSTRUCTION MANUAL

(Please read this manual before operating)

<https://www.dentalsalemall.com>

Guilin Woodpecker Medical Instrument Co., Ltd.

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1. Introduction

Guilin Woodpecker Medical Instrument Co., Ltd. is a high-tech enterprise in researching, developing, and producing dental equipment, and has a perfect quality assurance system, main products including ultrasonic scaler, curing light, apex locator and ultrasurgery etc.

1.1 Features

1) Three working modes: Low,Soft,High

2) Time setting :

High:1S,2S,3S

Soft:5S,10S,15S,20S

Check:30S,60S

3) Constant light intensity. The solidification effect is not affected by the consumption of remaining power.

4) Large capacity battery. A full charge can be used for more than 400 times continuously under 10s working time mode.

5) The check mode is used to detect dental calculus,dental caries and cracked tooth.

1.2 Principle and Application

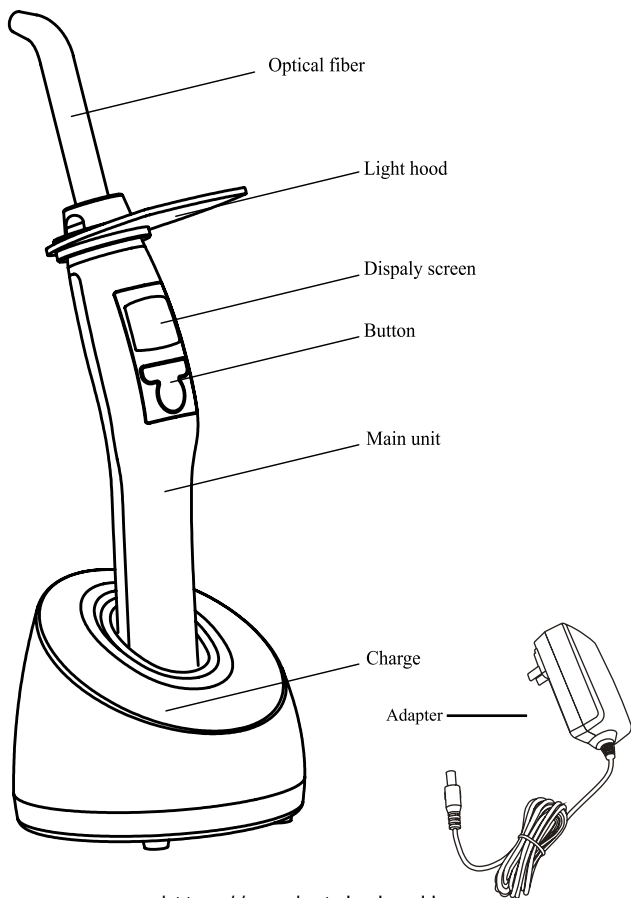
1.2.1 X-Cure adopts the principle of ray radiation to solidify the light-sensitive resin by shooting at it in a short time.

1.2.2 This product is used for dentistry. It has the function of accelerating the material of dental restoration curing.

1.2.3 The use of purple light teeth, the resulting fluorescence response, detection of dental caries or plaque.

2. Product Performance Structure and Components

X-Cure curing light (dentistry) is mainly composed by LED, light hood, charging cradle, battery, adapter, main unit.



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3. Basic Technical Specifications

3.1 Size: 276mm×28mm×30mm

3.2 Net weight: 750g

3.3 The components of machine: see the packing list.

3.4 Adapter:

3.4.1 classified by power supply

The power supply by the rechargeable battery.

3.4.2 Rechargeable Lithium battery:

Battery model: ICR18490, Battery capacity: 1400mAh

Battery has over-voltage, over current and short circuit protection

3.4.3 Adapter(charge)

Adapter input: AC100~240V 50Hz/60Hz 0.8A Max

Output: DC15V 1.6A

Built-in fuse: L250V T3.15A

3.5 Light source:

3.5.1 10W high power blue light LED

3.5.2 Wave length: 385nm~515nm

3.5.3 Class: class I

3.5.4 AEL: 9×10-3J

3.5.5 check method: When operate machine properly, LED luminous means LED is in good condition.

3.5.6 The wavelength of our curing light machine can match with dental resin material which are commonly used on clinical, such as 3M and Dentsply.

3.5.7 385nm to 515 nm (blue light) wavelength range of radiation: not less than 250 mw/cm².

3.5.9 Work condition:

Environment temperature: +5°C to +40°C

Relative humidity: 30%~75%

Atmosphere pressure: 70kPa to 106kPa

3.6 Safety classification

3.6.1 Protection type against electrical shock: Class II

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- 3.6.2 Protection degree against electrical shock: Type B
- 3.6.3 Protection against harmful ingress of water or particular matter: ordinary equipment (IPX0), can't be waterproof.
- 3.6.4 operation mode: short time run equipment.
- 3.6.5 Safety in the presence of flammable anesthetic mixture with air, oxygen or nitrous oxide: not suitable under this condition.

4. Installation and Demounting

- 4.1 Aim the mounting holes which on the upper of machine ,and make the long side of optical fiber inserted to it (must screw the optical fiber to the end, don't inclined inserted).
- 4.2 When the battery needs to be charged, connect the plug of the adapter into the AC100V~240V power supply. Then connect the output plug of the adapter to the DC 15V input plug of the pedestal, then put the main unit into the pedestal. Please pull out the adapter after charging.

5. Operation

- 5.1 Press the mode button to set the working mode, the corresponding indicator will on when a mode set.
- 5.2 High:2300~2500 mw/cm²
- 5.3 Soft:1000~1200 mw/cm²
- 5.4 Check:200~400mw/cm²
- 5.5 Press the time button to set the solidifying time:
High :1S, 2S, 3S
Soft:5S, 10S, 15S, 20S
Check:30S, 60S, the solidifying time
- 5.6 When operating, aim the optical fiber at the correct position, press the power button , a “di” sound will appear, the LED shine the blue light and start to work under the selected mode. Screen began to display the countdown time. When the countdown back to 0 the work finished .Then the screen will return to setting time.
- 5.7 While operation, press the power switch button can stop work at any time.
- 5.8 At the end of a working cycle , the next working cycle can be started
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immediately by short pressing the button. If the main unit gets hot obviously, please turn off the device until the main unit becomes cool. Please don't make it continuously illuminate more than 10 times.

5.9 Low power detect circuit is fixed inside of the main unit, when low power is detected, the battery symbol on OLED screen become wink, please charge in time.

5.10 Connect the adapter well when charge. Inserted the main unit into the charging seat and pressing out the buckle between the main unit. Then the OLED screen will scroll. If detect battery damage or other abnormal, the charging indicator lights flashing.

5.11 When operating finish, please clean the optical fiber with calico to avoid infecting the light intensity.

5.12 This equipment will turn off automatically if don't any action within 2 minutes, turn it on by press power button.

5.13 The effective light intensity of this equipment is much more higher than Halogen Lamp, The solidified depth of the curing light composites resin for 10 seconds will not less than 4mm.

6. Cleaning, Disinfection and Sterilization

The cleaning, disinfection and sterilization of optical fiber is as follow. Unless otherwise stated, they will be hereinafter referred to as “products”.



Warnings

The use of strong detergent and disinfectant (alkaline pH>9 or acid pH <5) will reduce the life span of products. And in such cases, the manufacturer takes no responsibility.

This device shall not be exposed to high temperature above 138°C.

Processing limit

The products have been designed for a large number of sterilization cycles.

The materials used in manufacture were selected accordingly. However with every renewed preparation for use, thermal and chemical stresses will result in ageing of the products. The maximum number of sterilizations for optical fiber is 500 times.

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6.1 Initial processing

6.1.1 Processing principles

It is only possible to carry out effective sterilization after the completion of effective cleaning and disinfection. Please ensure that, as part of your responsibility for the sterility of products during use, only sufficiently validated equipment and product-specific procedures are used for cleaning/disinfection and sterilization, and that the validated parameters are adhered to during every cycle.

Please also observe the applicable legal requirements in your country as well as the hygiene regulations of the hospital or clinic, especially with regard to the additional requirements for the inactivation of prions.

6.1.2 Post-operative treatment

The post-operative treatment must be carried out immediately, no later than 30 minutes after the completion of the operation. The steps are as follows:

1. Remove the optical fiber from the Curing light Device, and rinse away the dirt on the surface of product with pure water (or distilled water/deionized water);
2. Dry the product with a clean, soft cloth and place it in a clean tray.

Notes

- a) The water used here must be pure water, distilled water or deionized water.

6.2 Preparation before cleaning

Steps

Tools: tray, soft brush, clean and dry soft cloth Remove optical fiber from main unit and put it into the clean tray.

Use a clean soft brush to carefully brush the optical fiber until the dirt on surface is not visible. Then use soft cloth to dry the optical fiber and put them into a clean tray. The cleaning agent can be pure water, distilled water or deionized water.

6.3 Cleaning

The cleaning should be performed no later than 24 hours after the operation.

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The cleaning can be divided into automated cleaning and manual cleaning. Automated cleaning is preferred if conditions permit.

6.3.1 Automated cleaning

- The cleaner is proved to be valid by CE certification in accordance with EN ISO 15883.
- There should be a flushing connector connected to the inner cavity of the product.
- The cleaning procedure is suitable for the product, and the irrigating period is sufficient.

It is recommended to use a washer-disinfector in accordance with EN ISO 15883. For the specific procedure, please refer to the automated disinfection section in the next section “Disinfection”.

Notes

- a) The cleaning agent does not have to be pure water. It can be distilled water, deionized water or multi-enzyme. But please ensure that the selected cleaning agent is compatible with the product.
- b) In washing stage, the water temperature should not exceed 45 °C, otherwise the protein will solidify and it would be difficult to remove.
- c) After cleaning, the chemical residue should be less than 10mg / L.

6.4 Disinfection

Disinfection must be performed no later than 2 hours after the cleaning phase.

Automated disinfection is preferred if conditions permit.

6.4.1 Automated disinfection-Washer-disinfector

- The washer-disinfector is proved to be valid by CE certification in accordance with EN ISO 15883.
- Use high temperature disinfection function. The temperature does not exceed 134 °C, and the disinfection under the temperature cannot exceed 20 minutes.
- The disinfection cycle is in accordance with the disinfection cycle in EN ISO 15883.

Cleaning and disinfecting steps by using Washer-disinfector

1. Carefully place the product into the disinfection basket. Fixation of product is needed only when the product is removable in the device. The

products are not allowed to contact each other.

2. Use a suitable rinsing adaptor, and connect the internal water lines to the rinsing connection of the washer-disinfector.

3. Start the program.

4. After the program is finished, remove the product from the washer-disinfector,

inspect (refer to section “Inspection and Maintenance”) and packaging (refer to chapter “Packaging”). Dry the product repeatedly if necessary (refer to section “Drying”).

Notes

a) Before use, you must carefully read the operating instructions provided by the equipment manufacturer to familiarize yourself with the disinfection process and precautions.

b) With this equipment, cleaning, disinfection and drying will be carried out together.

c) Cleaning: (c1) The cleaning procedure should be suitable for the product to be treated. The flushing period should be sufficient (5-10 minutes). Pre-wash for 3 minutes, wash for another 5 minutes, and rinse it for twice with each rinse lasting for 1 minute. (c2) In the washing stage, the water temperature should not exceed 45 °C, otherwise the protein will solidify and it is difficult to remove. (c3) The solution used can be pure water, distilled water, deionized water or multi-enzyme solution, etc., and only freshly prepared solutions can be used. (c4) During the use of cleaner, the concentration and time provided by manufacturer shall be obeyed.

The used cleaner is neodisher MediZym (Dr. Weigert).

d) Disinfection: (d1) Direct use after disinfection: temperature $\geq 90^{\circ}\text{C}$, time $\geq 5\text{ min}$ or $A0 \geq 3000$.

(d2) Sterilize it after disinfection and use: temperature $\geq 90^{\circ}\text{C}$, time $\geq 1\text{ min}$ or $A0 \geq 600$.

(d3) For the disinfection here, the temperature is 93°C , the time is 2.5 min, and $A0 > 3000$.

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e) Only distilled or deionized water with a small amount of microorganisms (<10 cfu/ml) can be used for all rinsing steps. (For example, pure water that is in accordance with the European Pharmacopoeia or the United States Pharmacopoeia).

f) After cleaning, the chemical residue should be less than 10mg / L.

g) The air used for drying must be filtered by HEPA.

h) Regularly repair and inspect the disinfectant.

6.5 Drying

If your cleaning and disinfection process does not have an automatic drying function, dry it after cleaning and disinfection.

Methods

1. Spread a clean white paper (white cloth) on the flat table, point the product against the white paper (white cloth), and then dry the product with filtered dry compressed air (maximum pressure 3 bar). Until no liquid is sprayed onto the white paper (white cloth), the product drying is completed.

2. It can also be dried directly in a medical drying cabinet (or oven). The recommended drying temperature is 80°C~120°C and the time should be 15~40 minutes.

Notes

a) The drying of product must be performed in a clean place.

b) The drying temperature should not exceed 138 °C;

c) The equipment used should be inspected and maintained regularly.

6.6 Inspection and maintenance

In this chapter, we only check the appearance of the product. After inspection, if there is no problem, the optical fiber can only be used.

6.6.1 Check the product. If there is still visible stain on the product after cleaning/disinfection, the entire cleaning/disinfection process must be repeated.

6.6.2 Check the product. If it is obviously damaged, smashed, detached, corroded or bent, it must be scrapped and not allowed to continue to be used.

6.6.3 Check the product. If the accessories are found to be damaged,

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please replace it before use. And the new accessories for replacement must be cleaned, disinfected and dried.

6.6.4 If the service time (number of times) of the product reaches the specified service life (number of times), please replace it in time.

6.7 Packaging

Install the disinfected and dried product and quickly package it in a medical sterilization bag (or special holder, sterile box).

Notes

- a) The package used conforms to ISO 11607;
- b) It can withstand high temperature of 138 °C and has sufficient steam permeability;
- c) The packaging environment and related tools must be cleaned regularly to ensure cleanliness and prevent the introduction of contaminants;
- d) Avoid contact with parts of different metals when packaging.

6.8 Sterilization

Use only the following steam sterilization procedures (fractional pre-vacuum procedure*) for sterilization, and other sterilization procedures are prohibited:

1. The steam sterilizer complies with EN13060 or is certified according to EN 285 to comply with EN ISO 17665;
2. The highest sterilization temperature is 138 °C;
3. The sterilization time is at least 4 minutes at a temperature of 132°C/134°C and a pressure of 2.0 bar ~ 2.3 bars.
4. Allow a maximum sterilization time of 20 minutes at 134 °C.

Verification of the fundamental suitability of the products for effective steam sterilization was provided by a verified testing laboratory.

Notes

- a) Only products that have been effectively cleaned and disinfected are allowed to be sterilized;
- b) Before using the sterilizer for sterilization, read the Instruction Manual provided by the equipment manufacturer and follow the instructions.
- c) Do not use hot air sterilization and radiation sterilization as this may

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result in damage to the product;

d) Please use the recommended sterilization procedures for sterilization. It is not recommended to sterilize with other sterilization procedures such as ethylene oxide, formaldehyde and low temperature plasma sterilization. The manufacturer assumes no responsibility for the procedures that have not been recommended.

If you use the sterilization procedures that have not been recommended, please adhere to related effective standards and verify the suitability and effectiveness.

* Fractional pre-vacuum procedure = steam sterilization with repetitive pre-vacuum. The procedure used here is to perform steam sterilization through three pre-vacuums.

6.9 Storage

6.9.1 Store in a clean, dry, ventilated, non-corrosive atmosphere with a relative humidity of 10% to 93%, an atmospheric pressure of 70KPa to 106KPa, and a temperature of -20 °C to +55 °C;

6.9.2 After sterilization, the product should be packaged in a medical sterilization bag or a clean sealing container, and stored in a special storage cabinet. The storage time should not exceed 7 days. If it is exceeded, it should be reprocessed before use.

Notes:

a) The storage environment should be clean and must be disinfected regularly;

b) Product storage must be batched and marked and recorded.

6.10 Transportation

1. Prevent excessive shock and vibration during transportation, and handle with care;

2. It should not be mixed with dangerous goods during transportation.

3. Avoid exposure to sun or rain or snow during transportation.

The cleaning and disinfection of main unit are as follows.

- Before each use, wipe the surface of the machine with a soft cloth or paper towel soaked in 75% medical alcohol. Repeat the wipe for at least 3 times.

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- After each use, wipe the surface of the device with a soft cloth soaked in clean water (distilled or deionized water) or a clean disposable wipe. Repeat the wipe for at least 3 times.

7. Precaution

7.1 The optical fiber should be autoclaved under the high temperature of 134°C and pressure 0.22 Mpa.

7.2 Please recharge the battery at least 4 hours before first time usage.

7.3 During operation, the light should be aimed straightly at the resin to ensure the effect of solidification.

7.4 Be sure to use the original light hood to avoid the blue light hurt eyes. Prohibit aiming light at eyes directly.

7.5 Only the original adapter could be used, because other brand adapters are likely to damage the circuit.

7.6 It is forbidden to use metal or other conductors to touch the charging point of main unit, because it may burn the internal circuit or make the lithium short circuit.

7.7 Charging the battery in the condition of cool and ventilated. Please make sure of pressing out the buckle between the main unit and the pedestal, otherwise the battery charging might be failed because of the poor contact.

7.8 Do not disassemble the Lithium battery, it will lead to the circuit short or the electrolyte leakage.

7.9 Do not squeeze, shake and short the battery, do not store the battery with metal material.

7.10 The instrument has electromagnetic interference. Do not use around the electronic operation, at the same time have a strong electromagnetic interference environment should be careful to use the instrument.

7.11 It is forbidden to use when charging or operation.

7.12 This product should be used by trained, qualified dentists. And this product is suitable for dental patients. Must be use in hospital or professional medical site.

7.13 To avoid electromagnetic interference, the device should be

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installed at the medical site which meet the requirement of EMC.

WARNING: The adapter should be connected to the socket which is easy for operator to touch.

WARNING: over-heat scorching: the device cannot be used for 20s continuously.

WARNING: High temperature burn, The machine can not direct shining to the skin tissue like lips and mucosa.

WARNING: Check mode, Prohibited for curing resin-based materials.

8. Contraindication

The heart disease patients, pregnant women and children should be cautious to use this equipment.

9. Daily maintenance

9.1 This equipment does not include the self-maintainable spare parts. The maintenance of this equipment should be taken by the appointed professional or special repair shop.

9.2 Please use accessory which is designed and supplied by our company, contract with the local dealer or our company if you want to buy. It may cause potential dangers to curing light or other damages which is designed and supplied by other manufacturers.

9.3 The accessory of the product should be cleaned by clean water or sterilized liquid. Do not soak.

9.4 Please clean the resin remained on the top of the main unit after using to avoid infecting the life-span or solidified effect.

10. Trouble shooting

Faulty	Possible cause	Solutions
No indication No response.	1. Battery is out of power. 2. Battery is protected. 3. Faulty of battery.	1. Charging. 2. Please put the curing light into the pedestal for charging, then the battery works again. 3. Please contact our special repair shop or us.
Light intensity is weak.	There is resin on the top of the optical fiber.	1. Clean the resin. 2. Change a new optical fiber.
The equipment doesn't charge when the adapter is connected.	1. The adapter is not connected well 2. The charging point is impurity. 3. Faulty of adapter or incompatible.	1. Reconnect. 2. Clean by the alcohol. 3. Please contact our special repair shop or us.
Effective duration of the battery become short.	The capacity of the battery decreased.	Please contact our special repair shop or us.
The OLED screen twinkles when charging.	low voltage.	Back to normal after 15 minuets charging.

If all the above solutions have been completed, the machine still can not work normally. Please contact our special repair shop or us.

11. Storage and transportation

11.1 The equipment should be handled carefully and lightly, kept away from the shaking source, installed or stored at shadowy, dry, cool and ventilated places.

11.2 Don't store the equipment together with articles that are combustible, poisonous, caustic, and explosive.

11.3 This equipment should be stored in the environment where the humidity is 10%~93%, the atmosphere pressure is 70kPa~106kPa and the temperature is -20°C~55°C.

11.4 Excess impact or shake should be prevented during transportation. Handle with care.

11.5 Don't put it together with dangerous articles during transportation.

11.6 Keep it away from the sun, rain or snow during transportation.

12. After service

From the date this equipment has been sold, base on the warranty card, we will repair this equipment free of charge if it has quality problems, please refer to the warranty card for the warranty period.

13. Environmental protection

Please dispose according to the local laws.

14. European authorized representative

EC REP MedNet EC-Rep GmbH
Borkstrasse 10 · 48163 Muenster · Germany

15. Symbol instruction

	Date of manufacture		Manufacture
	Class II equipment		Consult the accompanying documents
IPX0	Ordinary equipment		Type B applied part

	Used in door only		Handle with care
	Keep dry		Recovery
	CE mark product		Screw inside / outside
	Follow Instructions for Use		
	Sterilizable up to the temperature specified		
	Appliance compliance WEEE directive		
	Atmospheric pressure for storage		
	Humidity limitation for storage		
	Temperature limitation for storage		
	Authorised Representative in the EUROPEAN COMMUNITY		

16. EMC - Declaration of conformity

The device has been tested and homologated in accordance with EN 60601-1-2 for EMC. This does not guarantee in any way that this device will not be effected by electromagnetic interference. Avoid using the device in high electromagnetic environment.

Guidance and manufacturer's declaration - electromagnetic emissions		
The models X-Cure are intended for use in the electromagnetic environment specified below. The customer or the user of the models X-Cure should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The models X-Cure 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.

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RF emissions CISPR11	Class B	The models X-Cure are 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 IEC 61000-3-2	Class A	
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies	

Guidance & Declaration — electromagnetic immunity

The models X-Cure are intended for use in the electromagnetic environment specified below. The customer or the user of the models X-Cure should assure that It is 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 contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transient/burst IEC 61000-4-4	±2kV for power supply lines ±1 kV for Input/output lines	±2kV for power supply lines ±1kV for interconnecting cable	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	±1 kV line to line	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 <5% UT (>95 % dip in UT) for 5 sec	<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 <5% UT (>95 % dip in UT) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the models X-Cure require continued operation during power mains interruptions, it is recommended that the models X-Cure be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30A/m	30A/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 models X-Cure are intended for use in the electromagnetic environment specified below. The customer or the user of the models X-Cure should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
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Conducted R F I E C 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 6 Vrms in ISM bands 3 V/m 80 MHz to 2.7 GHz 385MHz-5785MHz Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communication equipment (Refer to table 9 of IEC 60601-1-2:2014)	3 Vrms 150 kHz to 80 MHz 6 Vrms in ISM bands 3 V/m 80 MHz to 2.7 GHz 3 8 5 M H z - 5785MHz Test specification s for ENCLOSURE PORT IMMUNITY to RF wireless communication equipment (Refer to table 9 of IEC 60601-1-2:2014)	Portable and mobile RF communications equipment should be used no closer to any part of the models X-Cure, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = [3,5/V1] \times P^{1/2}$ $d = 1.2 \times P^{1/2}$ 80 MHz to 800 MHz $d = 2.3 \times P^{1/2}$ 800 MHz to 2.5 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: 
NOTE 1 At 80 MHz end 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 models X-Cure are used exceeds the applicable RF compliance level above, the model X-Cure should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the models X-Cure.

^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 models X-Cure

The models X-Cure are intended for use in electromagnetic environment in which radiated RF disturbances is controlled. The customer or the user of the models X-Cure can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the models X-Cure are 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 $d=1.2 \times P^{1/2}$	80MHz to 800MHz $d=1.2 \times P^{1/2}$	800MHz to 2,5GHz $d=2.3 \times P^{1/2}$
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) accordable to the transmitter manufacturer.

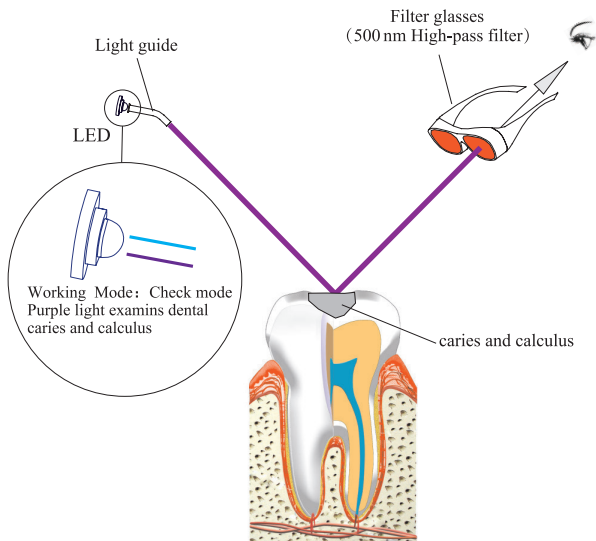
NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

16.Statement

All rights of modifying the product are reserved to the manufacturer without further notice. The pictures are only for reference. The final interpretation rights belong to GUILIN WOODPECKER MEDICAL
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INSTRUMENT CO., LTD. The industrial design, inner structure, etc, have claimed for several patents by WOODPECKER, any copy or fake product must take legal responsibilities.

17.Dental caries testing principle



Scan and Login website
for more information



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