

Please read this manual before operating

UDS-K LED ULTRASONIC SCALER INSTRUCTION MANUAL





www.glwoodpecker.com

GUILIN WOODPECKER MEDICAL INSTRUMENT CO., LTD.

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1. The installation and components of equipment

1.1 Instruction

Guilin Woodpecker Medical Instrument Co., Ltd. is a professional manufacturer in researching, developing and producing ultrasonic scalers. The product is mainly used for teeth cleaning and also an indispensable equipment for teeth disease prevention and performs treatment. The product UDS-K LED ultrasonic scaler mainly used for tooth disease prevention and treatment. It contains the following features:

- 1.1.1 Optical handpiece, more convenient for clinical operation.
- 1.1.2 Automatic frequency tracking ensures that the machine always works on the best frequency and performs more steadily.
- 1.1.3 The handpiece is detachable and can be autoclaved to the high temperature of 134°C and pressure of 0.22MPa.
 - 1.1.4 Digitally controlled, easy operation and more efficient for scaling.

1.2 Components

- 1.2.1 The components of machine are listed in the packing list.
- 1.2.2 Product performance and structure

Ultrasonic scaler is composed of electrocircuit, water way and ultrasonic transducer.

1.2.3 Scope of application

Ultrasonic scaler UDS-K LED is used for the dental calculus elimination .

1.3 The main technical specifications

- 1.3.1 Power supply input: 220 240V~ 50Hz/60Hz 150mA
- 1.3.2 Main unit input: 24V~ 50Hz/60Hz 1.3A
- 1.3.3 Output primary tip Vibration excursion: ${\leq}100\mu m$
- 1.3.4 Output half excursion force: <2N
- 1.3.5 Output tip Vibration frequency: 28kHz±3kHz
- 1.3.6 Output power: 3W to 20W
- 1.3.7 Main unit fuse: Tl.6AL 250V
- 1.3.8 Power supply fuse: T0.5AL 250V
- 1.3.9 Water pressure: 0.1bar to 5bar (0.01MPa to 0.5MPa)
- 1.3.10 Weight of main unit: 0.75kg
- 1.3.11 Weight of power supply: 1 kg
- 1.3.12 Operating mode: Continuous operation
- 1.3.13 Type of protection against electric shock: Class II
 1.3.14 Degree of protection against electric shock: Type BF equipment
- 1.3.15 Degree of protection against harmful ingress of water: Ordinary equipment(IPX0), protection degree against water (used on the foot switch): IPX1
 - 1.3.16 Degree of safety of application in the presence of a Flammable

Anaesthetic Mixture with air or with Oxygen or Nitrous Oxide: Equipment not suitable for being used in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide

1.3.17 Working condition:

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

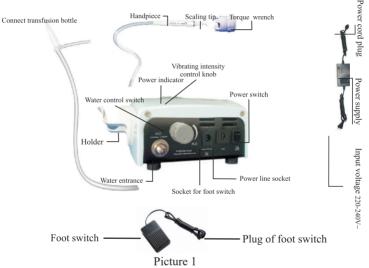
b) Relative humidity: 30% ~75%

c) Atmosphere pressure: 70kPa to 106kPa

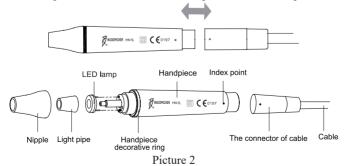
d) A temperature of the water at the inlet: not higher than +25°C

1.4 Installation of the equipment

1.4.1. The components of the equipment are showed in picture 1:



1.4.2 The components of the detachable handpiece is showed in picture 2:



Instruction for main components of detachable handpiece:

Nipple: the nipple can be removed. You can screw out the nipple and clean the pole with alcohol termly.

Decorative ring: can be disassembled and cleaned with alcohol regularly, can be autoclaved under the high temperature and pressure.

Handpiece: the main part of ultrasonic scaler, can be autoclaved under the high

temperature and pressure.

Symbol: autoclaved (134°C, 0.22MPa)

The connetor of the cable: connect the handpiece with the water source and power supply of the main unit.

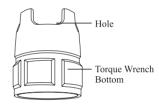
LED lamp. Light pipe: Clean them with purified water and sterilize them under the high temperature of 134° C and high pressure of 0.22Mpa.

Note: Keep the connector dry.

- 1.4.3. Torque Wrench Instruction
- a) Brief introduction and illustration (see picture 3)

The torque wrench's structure is designed in special way which can control the strength of the scaling tip installation properly and correctly .It also can guarantee the operator screw or unscrew the scaling tip effectively

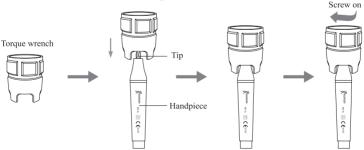
screw or unscrew the scaling tip effectively and keep their hands away from being scratched. b) Sterilization condition



Picture 3

Sterilize in steam with temperature 134°C and pressure 0.22MPa

- c) Operation
- ①Take the wrench as showed in picture 4;



Picture 4

②Tip installation: Hold the handpiece,turn the tip toward clockwise direction with the torque wrench .Turn two more circles after the tip stops , then the tip is installed;

- ③Uninstall: Hold the handpiece, turn torque wrench toward counter-clockwise direction;
 - (4) Sterilize after each operation;
- ⑤The torque wrench must be cooled naturally after sterilization to avoid scalding when using next time;
 - **6**Keep in a cool ,dry and ventilative place and keep it clean .
 - d) Notice

Forbidden sterilization way as following:

- (1)Braise in liquor;
- ②Dip in iodine, alcohol or glutaraldehyde;
- 3)Torrefy in oven or micro-wave oven.

Notice:We are not responsible for the damage of the torque wrench for any cases listed in above.

2. Product function and operation

2.1 Operation

- 2.1.1 Open the packing box, make sure that all the parts and accessories are complete according to the packing list.
 - 2.1.2 Take the main unit out of the box and put it on a stable plane.
- 2.1.3 Turn the water control knob towards clockwise direction to the max and turn the vibrating intensity control knob towards clockwise direction to a suitable position.
 - 2.1.4 Insert the plug of the foot switch to its socket.
- 2.1.5 Connect one end of the water pipe to the water entrance, and the other end to the pure water source.
- 2.1.6 Connect the handpiece: screw on the scaling tip to the handpiece by the torque wrench, then insert the connector of the cable to the handpiece correctly.
 - 2.1.7 Get through to the power.
 - 2.1.8 Press the power switch of the main unit, then the power indicator shines.

2.2 Operation method and function instruction

- 2.2.1 Make the scaler straight to the operator. Before turning on, please turn the vibrating intensity control knob to the minimum and water control switch to the maximum.(turn three circles towards clockwise direction from the minimum to the maximum)
- 2.2.2 The normal frequency is as high as 28kHz+ 3kHz. Under normal working condition light touch and a certain to-and-fro motion will eliminate the tartar without obvious heating. Overexertion and overstay are forbidden.
- 2.2.3 Select a suitable scaling tip according to your request, screw it on to the handpiece tightly by the torque wrench.(as showed in the picture 4)
- 2.2.4 Step on the foot switch, the tip begins to vibrate, and the LED lamp on the top of the handpiece shines. Release the foot switch, the LED lamp keep

shining for 10 seconds.

- 2.2.5 Vibrating intensity: Adjust the vibrating intensity as you need, generally turn the knob to the middle grade. Because different patients has different sensitivity and the rigidity of the gingival tartar is not alike too, the vibrating intensity should be adjusted during the clinical treatment.
- 2.2.6 Water adjustment: Step on the foot swtich, the tip begins to vibrate, then turn the water control switch to form fine spray to cool down the handpiece and clean the teeth.
 - 2.2.7 The handpiece can be handled in the same gesture as a pen in hand.
- 2.2.8 Make the tip touch the surface of the teeth lightly, don't use too much pressure, or else the teeth will be hurt and the scaling tip will be damaged.
- 2.2.9 After finishing operation, keep the machine working for 30 seconds with the wate supply, so that the handpiece and the scaling tips can be cleaned.
- 2.2.10 Pull out the handpiece and unscrew the scaling tip, make them be sterilized.

Notice: Don't pull out the handpiece when the foot switch is stepped on and the machine is working.

3. Sterilization and maintenance

3.1 Sterilization of handpiece

- 3.1.1 Autoclaved under high temperature, pressure, time:
 - 134°C, 2.0bar~2.3bar (0.20MPa~0.23MPa), 4min.
- 3.1.2 Pull out the handpiece and unscrew the scaling tip after every operation.
- 3.1.3 Pack the handpiece with sterile gauze or bag.
- 3.1.4 Reuse the handpiece after it cools naturally, in case of scalding hand.
- 3.1.5 Notice:
- a) Clear the cleaning liquid in the handpiece by compressed air before sterilization.
- b) Be sure that the scaling tip has been unscrewed from the handpiece, and it can not be sterilized with others.
- c) Please pay attention that whether the outer of the handpieces damaged during the treatment or sterilization, don't smear any protective oil on the surface of handpiece.
- d) There are two waterproof "O" rings at the end of the handpiece. Please lubricate them with dental lube frequently, as sterilization and repeating pulling and inserting will reduce their life-span. Once they are damaged or worn excessively, please change new ones.
 - e) The following sterilizing methods are forbidden:
 - ① Put the handpiece into any liquid for boiling.
 - ② Put the handpiece in disinfectors such as alcohol, iodine or glutaraldehyde.
 - 3 Put the handpiece in oven or micro-wave oven for baking.

3.2 Sterilization of the scaling tip

All the scaling tips can be autoclaved to 134°C.

3.3 The sterilization of the torque wrench

The wrench can be sterilized under high temperature and pressure.

3.4 The cleaning of the torque wrench and scaling tip

Both of them can be cleaned with an ultrasonic cleaner.

3.5 Sterilization and cleaning of LED lamp and Light pipe

Clean the LED lamp and Light pipe with purified water and sterilize them under high temperature and high pressure after every operation.

3.6 Troubleshooting and notes

Fault	Possible causes	Solutions
	The power pipe plug is in	Make the plug insert to the
The scaling tip doesn't	loose contact.	socket well.
vibrate and there is no	The foot switch is in loose	Insert the foot switch to its
water flowing out when	contact.	socket tightly.
stepping on the foot	The fuse of transformer is	Contact our dealers or us.
switch.	broken.	
	The fuse in the main unit is	Contact our dealers or us.
	broken.	
		Screw the tip on the
The scaling tip doesn't	The tip is in loose contact.	handpiece tightly (picture 4).
vibrate but there is		
water flowing out when	The connect plug between	Contact our dealers or us.
stepping on the foot	the handpiece and the circuit	
switch.	board is in loose contact.	
The scaling tip doesn't	Something wrong with the	Send it to our company to
vibrate but there is	handpiece.	repair.
water flowing out when	Something wrong with the	
stepping on the foot	cable.	Contact our dealers or us.
switch.		

Fault	Possible causes	Solutions
The scaling tip vibrates	The water control switch is turned off.	Turn on the water control switch [note 1].
but there is no water	There is impurity in the	Contact our dealers or us.
flowing out when	solenoid valve.	
stepping on the switch.	The solenoid valve is	Percuss the solenoid valve
	abnormal.	by some hard things [note 2].
There is still water	There is impurity in the	
flowing out after the	solenoid valve.	Contact our dealers or us.
power is off.		
The handpiece	The water control switch is	Turn the water control switch
generates heat.	in a low grade.	to a higher grade [note 1].
	The water control switch is	Turn the water control switch
	in a low grade.	to a higher grade [note 1].
The amount of spouting	The water pressure is not	Make the water pressure
water is too little.	high enough.	higher.
	The water pipe is blocked.	Clean the water line by
		multi-function syringe
		[note2].
	The tip hasn't been screwed	Screw on the tip to the
	on to the handpiece tightly.	handpiece tightly (as showed
		in picture 4).
The vibration of the tip	The tip is loose by because	Screw on the tip tightly (as
becomes weak.	of vibration.	shown in picture 4).
	The coupling between the	
	handpiece and the cable isn't	Dry it by the heated wind.
	dry.	
	The tip is damaged [note3].	Change a new one.

Fault	Possible causes	Solutions
The vibration is too strong and the vibrating	The vibrating intensity	Contact our dealers or us.
intensity control knob is malfunction.	control knob is damaged.	
There is water seeping		
from the coupling	The waterproof "O" ring was	Change a new "O" ring.
between the handpiece	damaged.	
and the cable.		

If the problem still can't be solved yet, please contact the local distributors or our company.

[Note1] The water control knob can adjust the water volume according to the symbol.

[Note2] To clean the water pipe with the multi-function syringe of the dental unit. (as showed in the picture 5):



Picture 5

- 1 Snip the water pipe with scissors at a distance of 10cm-15cm from the water entrance
 - ② Turn on the power switch, get through to the power.
 - ③ Connect the multi-function syringe of dental unit to the water pipe.
 - ④ Step on the foot switch.
- ⑤ Turn on the switch of the multi-function syringe, press the air or water into the water line in the machine, then the impurity blocked in the water line can be eliminated.

[Note3] If the scaling tip has been screwed on tightly and there is fine spray too, the following phenomena show that the scaling tip was damaged:

The vibrating intensity and the water atomization degree become weak obviously. When operating, there is some buzz when the scaling tip is working.

4. Precaution

4.1 Notice when using equipment

4.1.1 Keep the scaler clean before and after opreation.

- 4.1.2 The handpiece, scaling tip and torque wrench must be sterilized before every treatment.
 - 4.1.3 Don't screw the scaling tip when stepping on the foot switch.
- 4.1.4 The scaling tip must be fastened and there must be fine spray coming out from the tip when operating.
 - 4.1.5 Change a new one when the tip is damaged or worn excessively.
- 4.1.6 While scaler working ,the heat of scaling tip will become higher if there is no water flowing out. Please keep the water flow smoothly.
 - 4.1.7 Don't make the tip twist or rub it.
- 4.1.8 Don't use impure water source. Never replace the distilled water with physidogical saline.
- 4.1.9 If use water source without hydraulic pressure, the water surface should be one meter higher than the head of the patient.
- 4.1.10 Be sure that the connecting end of handpiece and the socket of the connector of cable are complete dried before handpiece installation.
 - 4.1.11 Don't pull the cable emphatically in operating.
 - 4.1.12 Please don't rub or knock the handpiece.
 - 4.1.13 After operation, turn off the power, then pull out the plug.
- 4.1.14 Please put the power plug into the socket easy to pull out, to make sure it can be pull out in emergency.
- 4.1.15 The power supply is considered as a part of ME equipment. This device can only be equipped with the special power supply of Guilin Woodpecker Medical Instrument Co., Ltd.
- 4.1.16 The power supply is NOT waterproof. Please keep it dry and away from the water.
- 4.1.17 As a professional company producing medical instruments' we are responsible for the safety only when maintenance' repair and change are done by "Woodpecker" company or our authorized distributors the replacing spare parts belong to ours and operating by the manual.
- 4.1.18 The screw thread of the scaling tips that produced by some other manufacturers may be coarse, rusty and collapsed, this will damage the screw thread of the handpiece irretrievably. Please use "Woodpecker" brand scaling tip.
- 4.1.19 Please select a suitable power when using different type of tips (refer to "TABLE OF OPERATING POWER OF THE TIPS").

4.2. Contraindication

- 4.2.1 The patient who has hemophilia is not allowed to use this equipment.
- 4.2.2 The patient or doctor who uses heart pacemaker is forbidden to use this equipment.
- 4.2.3 The heart disease patient, pregnant woman and children should be cautious to use the equipment.

4.3. Storage and maintenance

4.3.1 The equipment should be handled carefully and lightly, be sure that it is

far from the vibration, and is installed or keep it in a cool, dry and ventilated place.

- 4.3.2 Don't put the machine together with the articles that is combustible poisonous, caustic, or explosive.
- 4.3.3 This equipment should be stored in a room where the relative humidity is $10\% \sim 93\%$, atmospheric pressure is 70kPa to 106kPa, and the temperature is $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$.
- 4.3.4 Please turn off the power switch and pull out the power line plug when the equipment is not used. If the machine is not used for a long time, please make it get through to the power and water once per month for five minutes.

4.4 Transportation

- 4.4.1 Excessive impact and shake should be forbidden in transportation. Lay it carefully and lightly and don't invert it.
 - 4.4.2 Don t put it together with dangerous goods.
 - 4.4.3 Avoid solarization and getting wet in rain and snow during transportation.

5. After service

6. Symbol instruction

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.

Trademark Ordinary equipment IPX0 Drip-proof Alternating current IPX1 Date of manufacture Manufacturer Class II equipment Type BF applied part Foot switch interface Used indoor only H₂O Adjustment for the water Can be autoclaved flow 24VAC power supply H₂O ~24V Water entrance pressure 0.01-0.5MPa socket **C** € 0197 CE marked product Power switch Follow Instructions for Use



Appliance compliance WEEE directive



Atmospheric pressure for storage



Temperature limitation for storage



Humidity limitation for storage



Authorised Representative in the EUROPEAN COMMUNITY

7. Environmental protection

Please dispose according to the local laws.

8. Manufacturer's right

We reserve the right to change the design of the equipment, the technique, fittings, the instruction manual and the content of the original packing list at any time without notice. If there are some differences between blueprint and real equipment, take the real equipment as the norm.

9. European authorized representative



MedNet GmbH

Borkstrasse 10 · 48163 Muenster · Germany

10. EMC - Declaration of conformity

Guidance and manufacturer's declaration - electromagnetic emissions

The model UDS-J, UDS-K, UDS-K LED, UDS-L, UDS-L LED, UDS-A, UDS-A LED, UDS-P, UDS-E, UDS-P, LED, UDS-E, LED, D1, D3, D5, D7, D3 LED, D7 LED, D7 LED are intended for use in the electromagnetic environment specified below. The customer or the user of the model UDS-J, UDS-K, UDS-K, LED, UDS-L, UDS-L, LED, UDS-A, UDS-A, LED, UDS-P, UDS-P, LED, UDS-P, LED, UDS-E, LED, D1, D3, D5, D7, D3 LED, D5 LED, D7 LED should assure that it is used in such an environment.

Emissions test Compliance Electromagnetic environment - guidance The models UDS-J, UDS-K, UDS-K LED, UDS-L, UDS-L LED, UDS-A, UDS-A LED, UDS-P, UDS-E, UDS-P LED, UDS-E LED, RF emissions D1, D3, D5, D7, D3 LED, D5 LED, D7 LED use RF energy only for Group 1 CISPR 11 its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. RF emissions Class B The modesl UDS-J, UDS-K, UDS-K LED, UDS-L, UDS-L LED, CISPR11 UDS-A, UDS-A LED, UDS-P, UDS-E, UDS-P LED, UDS-E LED, Harmonic emissions Class A D1, D3, D5, D7, D3 LED, D5 LED, D7 LED are suitable for used in IEC 61000-3-2 domestic establishment and in establishment directly connected to Voltage fluctuations a low voltage power supply network which supplies buildings used / flicker emissions Complies for domestic purposes. IEC 61000-3-3

Guidance & Declaration — electromagnetic immunity

The models UDS-J, UDS-K, UDS-K LED, UDS-L, UDS-L LED, UDS-A, UDS-A LED, UDS-P, UDS-E, UDS-P LED, UDS-E LED, D1, D3, D5, D7, D3 LED, D5 LED, D7 LED are intended for use in the electromagnetic environment specified below. The customer or the user of the models UDS-J, UDS-K, UDS-K LED, UDS-L, UDS-L LED, UDS-A, UDS-A LED, UDS-P, UDS-P, UDS-P LED, UDS-E, UDS-P LED, UDS-B, UDS-P LED, UDS-B, UDS-B,

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 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.	$<5\%\ U_T$ $(>95\%\ dip\ in\ U_{7}.)$ for 0.5 cycle $40\%\ U_T$ $(60\%\ dip\ in\ U_7)$ for 5 cycles $70\%\ U_T$ $(30\%\ dip\ in\ U_7)$ for 25 cycles $<5\%\ U_T$ $(>95\%\ dip\ in\ U_7)$ for 5 sec	$<5\%\ U_T$ $(>95\%\ dip\ in\ U_{T})$ $(>95\%\ dip\ in\ U_{T})$ for 0.5 cycle $40\%\ U_T$ $(60\%\ dip\ in\ U_{T})$ for 5 cycles $70\%\ U_T$ $(30\%\ dip\ in\ U_{T})$ for 25 cycles $<5\%\ U_T$ $(>95\%\ dip\ in\ U_{T})$ for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the models UDS-J, UDS-K, UDS-K, UDS-K, LED, UDS-L, UDS-L, UDS-A, UDS-A, LED, UDS-B, UDS-P, UDS-E, UDS-D, DS-E, UDS-D, DS-E, UDS-D, DS-E, UDS-D, DS-E, UDS-D, DS-E, UDS-E, UDS-E, UDS-E, UDS-E, UDS-E, UDS-L, UDS-L, UDS-K, UDS-K, UDS-K, UDS-L, UDS-L, UDS-E, UDS-P, UDS-E, UDS-P, UDS-E, UDS-P, UDS-E, UDS-P, UDS-E,
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m ains voltage prior to applica	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

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Guidance & Declaration - Electromagnetic immunity

The models UDS-J, UDS-K, UDS-K LED, UDS-L, UDS-L LED, UDS-A, UDS-A LED, UDS-P, UDS-E, UDS-P LED, UDS-E LED, D1, D3, D5, D7, D3 LED, D5 LED, D7 LED are intended for use in the electromagnetic environment specified below. The customer or the user of the models UDS-J, UDS-K, UDS-K LED, UDS-L, UDS-L LED, UDS-A, UDS-A LED, UDS-P, UDS-E, UDS-P LED, UDS-E LED, D1, D3. D5. D7. D3 LED. D5 LED. D7 LED should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Out destand DE	0.1/		Portable and mobile RF communications equipment should be used no closer to any part of the models UDS-J, UDS-K, UDS-K LED, UDS-L, UDS-L LED, UDS-A LED, UDS-P, UDS-E, UDS-P LED, UDS-E LED, D7, D3, D5, D7, D3 LED, D5 LED, D7 LED, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance
IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3V	3V
	3 V/m 80 MHz to 2.5 GHz	3 V/m	$d=1.2 \times P^{1/2}$ 80 MHz to 800 MHz
			d=2.3×P 800 MHz to 2.5 GHz
			where <i>P</i> is the maximum output power rating of the transmitter In watts (W) according to the transmitter manufacturer and <i>d</i> 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. Interference may occur in the vicinity of equipment marked with the following symbol:

NOTE LAt 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 UDS-J, UDS-K, UDS-K LED, UDS-L, UDS-L LED, UDS-A, UDS-A LED, UDS-P, UDS-E, UDS-P LED, UDS-E LED, D1, D3, D5, D7, D3 LED, D5 LED, D7 LED are used exceeds the applicable RF compliance level above, the model UDS-J. UDS-K. UDS-K LED, UDS-L, UDS-L LED, UDS-A, UDS-A A LED, UDS-P, UDS-E, UDS-P LED, UDS-E LED, D1, D3, D5, D7, D3 LED, D5 LED, D7 LED should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the models UDS-J, UDS-K, UDS-K, UDS-L, UDS-L LED, UDS-A, UDS-A LED, UDS-P, UDS-E, UDS-P LED, UDS-E LED, D1, D3, D5, D7, D3 LED, D5 LED. D7 LED.

^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 UDS-J, UDS-K, UDS-K LED, UDS-L, UDS-L LED, UDS-A, UDS-A LED, UDS-P, UDS-E, UDS-P LED, UDS-E LED, D1, D3, D5, D7, D3 LED, D5 LED, D7 LED

The model UDS-J, UDS-K, UDS-K LED, UDS-L, UDS-L LED, UDS-A, UDS-A LED, UDS-P, UDS-E, UDS-P LED, UDS-E LED, D1, D3, D5, D7, D3 LED, D5 LED, D7 LED is intended for use in electromagnetic environment in which radiated RF disturbances is controlled. The customer or the user of the models UDS-J, UDS-K, UDS-K LED, UDS-L, UDS-L LED, UDS-A, UDS-A LED, UDS-P, UDS-P, LED, UDS-P, LED, UDS-P, LED, D1, D3, D5, D7, D3 LED, D5 LED, D7 LED can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the models UDS-J, UDS-K, UDS-K LED, UDS-L, UDS-L LED, UDS-A, UDS-A LED, UDS-P, UDS-E, UDS-P LED, UDS-E LED, D1, D3, D5, D7, D3 LED, D5 LED, D7 LED are recommended below, according to the maximum output power of the communications equipment.

Rated maximum output	Separation distance according to frequency o		ency o
power of transmitter W	150kHz to 80MHz d=1.2×P ^{1/2}	80MHz to 800MHz d=1.2×P ^{1/2}	800MHz to 2,5GHz d=2.3×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 I 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.

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.

11. 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 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.

TABLE OF OPERATING POWER OF THE TIPS

Scaling		
Tip Model	Power	
G 1	1-9	
G 2	1-9	
G 3	1-9	
G 4	1-9	
G 5	1-9	
G 6	1-9	
G 7	1-9	
G 8	1-9	
G 9	1-9	
G 10	1-9	
G 11	1-9	

Periodontics		
Tip Model	Power	
P1	1-6	
P2L	1-2	
P2LD	1	
P2R	1-2	
P2RD	1	
Р3	1-3	
P3D	1-3	
P4	1-3	
P4D	1-3	

Endodontics		
Tip Model	Power	
E1	-	
E2	-	
E3	-	
E3D	-	
E4	-	
E4D	-	
E5	-	
E5D	-	
E8	-	
E9	-	
E10	-	
E10D	-	
E11	-	
E11D	-	
E14	-	
E15	-	

Cavity Preparation		
Tip Model	Power	
SB1	1-6	
SB2	1-6	
SB3	1-6	
SBL	1-6	
SBR	1-6	

Scan and Login website for more information





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