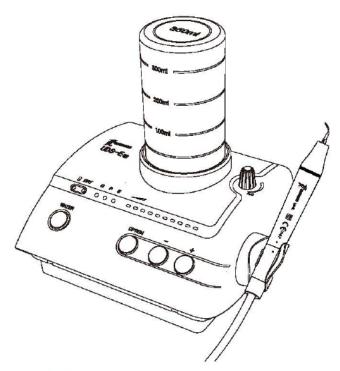




Industrial design patent No.: CN 200830300448.0 Please read this manual before operating

UDS-E 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 treatment. The new product UDS-E LED ultrasonic scaler has scaling, perio, endo and auto-water supply functions with the following features:

- 1.1.1 Optical handpiece, more convenient for clinical operation.
- 1.1.2 With auto-water supply function, easier operation.
- 1.1.3 The inner water pipe is made from antiseptic material, clinical fluids, such as Hydrogen peroxide, chlorhexidine and sodium Hypochlorite, etc, can be used perfectly under the mode of auto-water supply system so that the performance of perio and endo is improved dramatically.
- 1.1.4 The handpiece is detachable and can be autoclaved to the temperature of 135°C and the pressure of 0.22MPa.
- 1.1.5 Automatic frequency tracking ensures that the machine always works on the best frequency and performs more steadily.
- 1.1.6 Controlled by PC, easy operation and more efficient for scaling.
 These features make UDS-E LED become a new generation product in the world dental market.

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-E LED is used for the dental calculus elimination and root canal treatment.



1.3 The main technical specifications

Power supply input: 220 - 240V~ 50Hz/60Hz 150mA

Main unit input: 24V~ 50Hz/60Hz 1.3A

Output primary tip vibration excursion: ≤100µm

Output half-excursion force: <2N

Output tip vibration frequency: 28kHz±3kHz

Output power: 3W to 20W

Main unit fuse: T1.6AL 250V

Power supply fuse: T0.5AL 250V

Weight of main unit: 1.17kg Weight of power supply: 1 kg

Operating mode: Continuous operation

Type of protection against electric shock: Class II equipment

Degree of protection against electric shock: Type BF applied part

Applied part of the equipment: handpiece and scalling tip

Degree of protection against harmful ingress of water: Ordinary equipment

Protection degree against water (used on the foot switch): IPX1

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.

1.4 Installation of the main components

Sketch map for installation and connectiom.

1.4.1 The front and back sketch map of the main unit



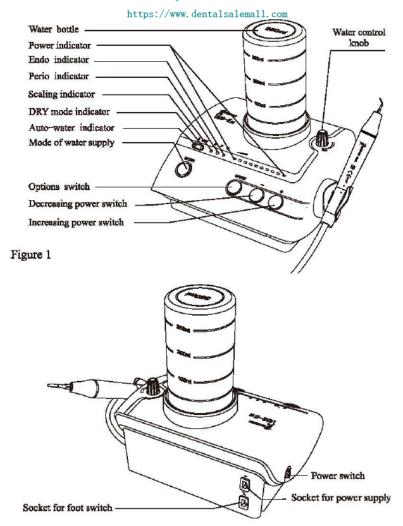


Figure 2

1.4.2 Sketch map for connection of foot switch, power supply and main unit.



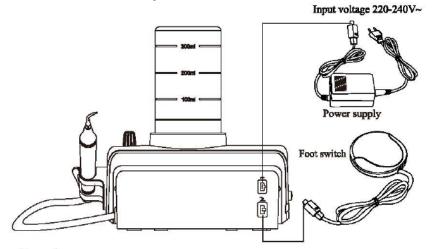
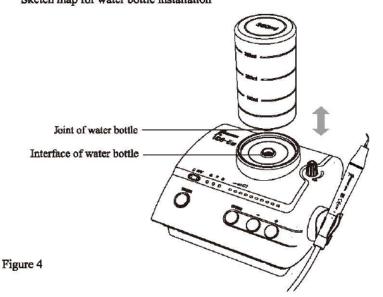


Figure 3

1.4.3 Water way connection Sketch map for water bottle installation





1.4.4 Sketch map for connection of detachable handpiece

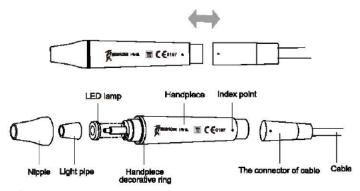


Figure 5

1.4.5 Sketch map for how to install tip and endochuck with wrench

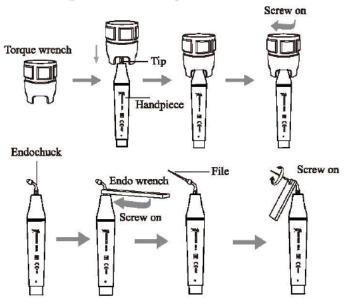


Figure 6



2 Product function and operation

2.1 Scaling function

2.1.1 Operation

- a) Open the packing box, make sure that all the parts and accessories are complete according to the packing list. Take the main unit out of the box and put it on a stable plane.
- b) Turn the water control knob to the max based on symbol as shown in
- 3.5.2 [note 1].
- c) Insert the plug of the foot switch to its socket (See Figure 3).
- d) Water way installation:

Install the bottle reversely to the connector with adequate purified water (See Figure 4).

- e) Screw the scaling tip tightly to the handpiece by torque wrench, then connect the handpiece and the connector of cable correctly.
- f) Insert the plug of the power supply to its socket, then get through to the power.
- g) Switch on the main unit, then the scaling indicator and the first five power indicators shine, auto-water indicator is on.
- h) According to need, press water button to choose auto-water or DRY mode.
 The indicator of choosen mode is on.
- i) Select a suitable scaling tip as you need, screw it on the handpiece tightly by the torque wrench (See Figure 6).
- j) 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.
- k) The normal frequency is extremely high. Under the normal working state of the scaling tip, a light touch and a certain to-and-fro motion will eliminate the tartar without heating. Overexertion and long-time lingering are forbidden.
- Vibration intensity: Adjust the vibration intensity as you need, generally
 increase the power by pressing the Increasing Power Switch to a higher grade.
 According to patient's different sensitivity and the rigidity of the gingival



tartar, adjust the vibration intensity during the clinical treatment.

- m) Water volume adjust: Step on the foot switch, and the tip begins to vibrate, then turn the water control knob to form fine spray to cool down the handpiece and clean the teeth.
- n) The handpiece can be handled in the same gesture as a pen in hand.
- o) During the clinical treatment, be sure not to make the end of tip touch the teeth vertically and not to make the tip overexert on the surface of the teeth in case of hurting the teeth and damaging the tip.
- p) After finishing operation, keep the machine working for 30 seconds on the water supply condition in order to clean the handpiece and the scaling tip.
- q) Unscrew the scaling tip and pull out handpiece, then sterilize them.

Notice:

- ① Don't pull out the handpiece when the foot switch is stepped on and the machine is producing ultrasonic vibration.
- ② Please don't choose dry mode unless needed in the treatment, please don't make the machine work under dry mode for a long time. The teeth will be hurt if the handpiece and tips get overheat during the treatment.
 - 2.1.2 Instruction for main components of detachable handpiece (See Figure 5):
 - a) Nipple: The nipple can be removed. You can screw out the nipple and clean the pole with alcohol termly.
 - b) Decorative ring: can be disassembled and cleaned with alcohol regularly, can be autoclaved under the high temperature and pressure.
 - c) Handpiece: The main part of the whole handpiece, can be autoclaved under the high temperature and pressure.
 - d) The connector of the cable: Connect the handpiece with the water source and power supply of the main unit.
 - e) LED lamp. Light pipe: Clean them with purified water and sterilize them under the high temperature of 135°C and high pressure of 0.22Mpa.

Notice: Keep dry when the detachable handpiece connects to the connector of the cable.



2.1.3 Instruction of torque wrench (See Figure 6)

- a) The torque wrench's structure is designed in special way which can control the strength of the scaling tip's installation properly and correctly. It also can guarantee the operator screw or unscrew the scaling tip effectively and keep their hands away from being scratched.
- b) Operation
- (1) Take the scaling tip into the torque wrench, operate as showed in figure 6.
- ② Tip installation: Hold the handpiece, turn the tip toward direction as showed in figure 6 with the torque wrench. Turn one more circles when the tip stops, then the tip is installed.
- ③ Tip uninstallation: Hold the handpiece, turn the wrench toward anticlockwise direction.
- 4 Sterilize it in sterilizer after each treatment.
- ⑤ The torque wrench must be cooled naturally after sterilization to avoid scald when using next time.
- (6) Keep the torque wrench in a cool, dry and ventilated place and keep it clean.

2.2 Auto-water supply function

- 2.2.1 Usage process
- a) Pull out the water bottle vertically.
- b) Open the lid, fill the bottle with adequate purified water and tighten the lid.
- c) Clean the joint and interface of water bottle.
- d) Place the bottle with water upside down, insert the joint into the interface vertically (See Figure 4).
- e) Press "WATER" to choose auto-water supply.

2.2.2 Notice

a) Make sure the air hole and water entrance are unblocked (See Figure 7).



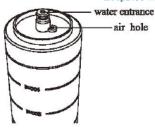




Figure 7 Figure 8

- b) Check if the cushion inside the lid is on good condition. If it becomes deformed or falls off, reinstall or change it.
- c) Tighten the lid.
- d) Clean the joint and interface of water bottle before each clinical operation.
- e) After each clinical operation with clinical liquid, change a bottle with purified water, turn the water supply to max, make the machine work with auto-water supply for 30 seconds in order to keep the water way and spare parts clean and durable.
- f) When the water is lower than water level lower limit, please add water (See Figure 8).

2.3 Endo function

- 2.3.1 Usage process
- a) Fix endochuck to handpiece by endo wrench (See Figure 6).
- b) Unscrew the screw cap on the endochuck.
- c) Put the ultrasonic file into the hole in the front of endochuck.
- d) Screw the screw cap with endo wrench to tight up the ultrasonic file.
- e) Press option key, turn to endo function.
- f) When ultrasonic scaler turns into endo function, only the first power indicator is on and the power is at the 1st grade. Put the ultrasonic file into the patient's root canal slowly, step on the foot switch to start endo treatment. During the treatment, turn up the power gradually according to the needs.

2.3.2 Notice



- a) When fixing endochuck, it must be screwed down.
- b) The screw cap on the endochuck must be screwed down.
- c) Don't press it too much when the ultrasonic file in root canal.
- d) Don't step on the foot switch until the ultrasonic file is in root canal.
- e) The power range of endo treatment is advised from the 1st to the 5th grade.

3 Sterilization and maintenance

3.1 Sterilization of detachable handpiece

- 3.1.1 Autoclaved under high temperature/pressure:
- a) 121 C/lbar (0.lMPa).
- b)135°C/2.2bar (0.22MPa).
- c) Pull out the handpiece and unscrew the scaling tip and endochuck after each operation.
- d) Pack the handpiece with sterile gauze or sterile bag before sterilizing.
- e) Reuse handpiece after it cools naturally to avoid scalding hands.
- 3.1.2 Notice
- a) Dry the cleaning liquid in the handpiece with compressed air before sterilization.
- b) Be sure that the scaling tip has been unscrewed from the handpiece and it cannot be sterilized with others.
- c) Please notice whether the outer of the handpiece is 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 handpiece. Please lubricate them with dental lube frequently, as sterilization and repeated pulling and inserting will reduce their working life. Change a new one once it is damaged or worn excessively.
- e) The following sterilizing methods are forbidden:
- Put handpiece into any liquid for boiling.
- 2 Dip handpiece in disinfectors such as iodine, alcohol and glutaraldehyde.
- 3 Put handpiece into oven or microwave oven for baking.



3.2 Sterilization of scaling tips and endochuck

All the scaling tips and endochuck can be autoclaved under high temperature and pressure.

3.3 Sterilization of torque wrench and endo wrench

- 3.3.1 The torque wrench and endo wrench can be sterilized under high temperature and pressure.
- 3.3.2 The following sterilization ways for torque wrench are forbidden.
- a) Braise in liquor.
- b) Dip in iodine, alcohol or glutaraldehyde.
- c) Torrefy in oven or microwave oven.

Notice: We are not responsible for any damage of the torque wrench directly or indirectly made by any way in the above items.

3.4 Cleaning of tips, endochuck, torque wrench and endo wrench

The scaling tip, endochuck, torque wrench and endo wrench can be cleaned by 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

3.6.1 Troubleshooting



Fault	Possible cause	Solutions	
The scaling tip doesn't vibrate and there is no	The power plug is in loose contact,	Make the plug insert to the socket well.	
water flowing out when stepping on the foot	The foot switch is in loose contact.	Insert the foot switch to its socket tightly.	
switch.	The fuse in the main unit is broken.	Contact our dealers or us.	
The scaling tip doesn't	The tip is in loose contact.	Screw the tip on the handpiece tightly (See Figure 6).	
vibrate but there is water flowing out when stepping on the switch.	The connect plug between the handpiece and the circuit board is in loose contact.	Contact our dealers or us.	
	Something wrong with the handpiece. Something wrong with the	Send the handpiece to our company to repair. Contact our dealers or us.	
	cable.	Contact our sould by the	
The scaling tip vibrates but there is no spray when stepping on the foot switch.	The water control knob is not on.	Turn on the water contrl knob [note 1].	
	The tip hasn't been screwed on to the handpiece tightly.	Screw the tip on the handpiece tightly (See Figure 6).	
The vibration of the tip	The tip is loose because of vibration.	Screw on the tip tightly (See Figuree 6).	
becomes weak.	The coupling between the handpiece and the cable isn't dry.	Dry it by the hot air.	
	The tip is damaged [note 2].	Change a new one.	



	ittps.//www.uentaisaiemaii.	
Fault	Possible cause	Solutions
There is water seeping from the coupling between the handpiece and cable.	The waterproof "O"ring is damaged.	Change a new waterproof "O"ring.
The u-file doesn't vibrate.	The screw is loose.	Tighten it.
	Endochuck is damaged.	Change a new one.
There is noise coming from the endochuck.	The screw is loose.	Tighten it.
	Poor contact	Contact tightly
LED light don't work	Something wrong with LED light	Change a new one
	LED lamp installed backwards	Please install the "+" of the LED lamp to the "+" of the handpiece
There is no water coming out from the handpiece (automatic water supply mode).	There is air in the water pipe.	Turn the water control to the Max, reinsert the bottle.

If the problem still can't be solved, please contact with local dealer or manufacturer.

3.6.2 Notes



[Note l] Turn the water control knob as symbol showed. It comes to the min, on the contrary direction, it comes to the max.

[Note 2] If the scaling tip has been screwed on tightly and there is fine spray too, the following phenomena show that the scaling tip is damaged:

- a) The vibrating intensity and the water spray degree become weak obviously.
- b) During treatment, it produces the sound like "buzz" from the scaling tip.

4 Precaution

4.1 Notice when using equipment



- 4.1.1 Keep the scaler clean before and after operation.
- 4.1.2 The handpiece, scaling tip, torque wrench, endo wrench and endochuck must be sterilized before each treatment.
- 4.1.3 Don't screw or unscrew the scaling tip and endochuck when stepping on the foot switch.
- 4.1.4 The scaling tip must be fastened and there must be fine spray or drip coming out from the tip when operating.
- 4.1.5 Change a new one when the tip and ultrasonic file are 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 twist or rub the tip and endochuck.
- 4.1.8 Ensure the connector of handpiece and the socket of the cable dry before installing the handpiece.
- 4.1.9 Don't pull the cable forcibly in case of the handpiece falling off from the cable.
- 4.1.10 Don't knock or rub the handpiece.
- 4.1.11 Please put the power plug into the socket easy to pull out, to make sure it can be pull out in emergency.
- 4.1.12 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.
- 4.1.13 The power supply is NOT waterproof. Please keep it dry and away from the water.
- 4.1.14 After operation, turn off power, and pull out the plug.
- 4.1.15 We are only responsible for the safety on the following conditions:
- I) The maintenance, repair and modification are made by the manufacturer or the authorized dealer.
- II) The changed components are original of "WOODPECKER" and are operated according to instruction manual.
- 4.1.16 The internal screw thread of the scaling tips produced by some manufacturers maybe coarse, rusty and collapsed. This will damage



the external screw threat of the handpiece irretrievably. Please use "WOODPECKER" brand scaling tips.

- 4.1.17 This model is only matched the power supply of our company.
- 4.1.18 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 hemophilia disease patient is not allowed to use this equipment.
- 4.2.2 The patients or doctors with heart pacemaker are 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 installed or kept in a cool, dry and ventilated place.
- 4.3.2 Don't store the machine together with the articles that are combustible, poisonous, caustic, and explosive.
- 4.3.3 This equipment should be stored in a room where the relative humidity is ≤80%, atmospheric pressure is 50kPa to 106kPa, and the temperature is -10°C to +50°C.
- 4.3.4 If not use for a long time, please make the machine 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 prevented in transportation. Lay it carefully and lightly and don't invert it.
- 4.4.2 Don't put it together with dangerous goods during transportation.
- 4.4.3 Avoid solarization and getting wet in rain or snow during transportation.

4.5 Working condition

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

Relative humidity: ≤80%

Atmosphere pressure: 70kPa to106kPa



5 After service

We offer one year free repair to the equipment according to the warranty card.

The repair of the equipment should be carried out by our professional technician.

We are not responsible for any irretrievable damage caused by the not professional person.

6 Symbol instruction

WOODPECKER	Trademark		Used indoor only
[]i	Consult the accompanying document	s 🕱	Appliance compliance WEEE directive
\triangle	Caution	\sim	Alternating current
M	Date of manufacture	~24V	24VAC power supply socket
444	Manufacturer	<u>></u>	Connection for the foot switch
	Class II equipment)	Adjustment for the water flow
☆	Type BF applied part		Mode of auto-water system
IPX1	Anti-drip device	0	Recovery
	Add water		Keep dry
-10°C 1 +50°C	Temperature limitation		Handle with care
_{0*} _@	Humidity limitation		
70	Atmospheric pressure for	working	



Atmospheric pressure for storage

135°C | Can be autoclaved

CE 0197 CE marked product

FDA marked product

EC REP Authorised Representative in the EUROPEAN COMMUNITY

7 Environmental protection

There is no harmful factor in our product. You can deal with it based on the local law.

8 Manufacturer's right

We reserve the rights 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 For technical data, please contact

EC REP Wellkang Ltd (www.CE-Marking.eu)
29 Harley St.,LONDON,W1G 9QR,UK

10 Declaration of conformity

10.1 Product conformity the following standards

EN 60601-1:2006 EN 60601-1-2:2007

EN 60601-1-6:2010 EN 62366:2008



EN 61205:1994 EN ISO 22374:2005

EN 62304:2006 EN 980:2008

EN ISO 9687:1995 EN 1041:2008

ISO 15223-1-2012 EN ISO 14971:2012

EN ISO 7405:2008 +A1:2003 EN ISO 17664:2004

EN ISO 17665-1:2006 EN ISO 10993-1:2009

EN ISO 10993-5:2009 EN ISO 10993-10:2010

10.2 EMC - Declaration of conformity

Gulda	nce and manuf	acturer's declaration - electromagnetic emissions
The model UDS-J, UDS-P LED, UDS-E L electromagnetic envir UDS-K LED, UDS-L, U	DS-K, UDS-K LE LED, D1, D3, D5, priment specified UDS-L LED, UDS	D, UDS-L, UDS-L LED, UDS-A, UDS-A LED, UDS-P, UDS-E, D7, D3 LED, D6 LED, D7 LED are intended for use in the below. The customer or the user of the model UDS-J, UDS-K, S-A, UDS-A LED, UDS-P, UDS-E, UDS-P LED, UDS-E LED, D1, should assure that it is used in such an environment.
Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	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 use RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR11	Class B	The modes! 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,
Harmonic emissions IEC 61000-3-2	Class A	D1, D3, D5, D7, D3 LED, D5 LED, D7 LED are suitable for used in domestic establishment and in establishment directly connected to
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies	a low voltage power supply network which supplies buildings used for domestic purposes.



Guidance & Declaration — electromagnetic immunity
The models UDS-J, UDS-K, UDS-K LED, UDS-L, UDS-L LED, UDS-A, UDS-A, 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
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±6 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 EC 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_7 (>95% dip in U_7) for 0.5 cycle 40 % U_7 (60% dip in U_7) for 5 cycles 70% U_7 (30% dip in U_7) for 25 cycles <5% U_7 (>95 % dip in U_7) for 25 cycles	<5 % U ₇ (>95% dlp ln U ₇₋) for 0.5 cycle 40 % U ₇ (60% dip in U ₇) for 5 cycles 70% U ₇ (30% dlp in U ₇) for 25 cycles <5% U ₇ (>95 % dip in U ₇) 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, LED, UDS-L, LED, UDS-A, LED, UDS-B, LDS-P, LDS-E, UDS-P, LDS-E, LDS-P, LDS-E, LDS-D, LED, D7 LED require continued operation during power mains interruptions, it is recommended that the models UDS-J, UDS-K, UDS-K, LED, UDS-L, UDS-L LED, UDS-A, UDS-B, LED, UDS-P, LDS-P, LDS-P, LDS-P, LDS-P, LDS-P, LDS-P, LDS-P, LDS-E, UDS-P, LDS-E, UDS-P, LDS-E, UDS-B, LED, D5 LED, D7 LED be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.



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, LED, UDS-P, LED, UDS-E, UDS-P, LED, UDS-B, UD

D3, D5, D7, D3		ED should assu	ure that it is used in such an environment.
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF	3 Vrms		Portable and mobile RF communications equipment should be used no closer to any part of the models UDS-I, UDS-K, UDS-K, UDS-K, UDS-K, UDS-L, UDS-L, UDS-L, UDS-L, UDS-E, UDS-P, U
IEC 61000-4-6	150 kHz to 80 MHz	3V	3V
	3 V/m 80 MHz to 2.5 GHz	3 V/m	d=1.2×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 melers (m). Field strengths from fixed RF fransmitters, as determined by an electromagnetic site survey, 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 | 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.

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-E, UDS-P LED, UDS-E, 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, UDS-A, UDS-A, UDS-P, UDS-P, 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 m			
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

Scaler Model Tip Model Power	UDS-E (LED) UDS-L (LED) UDS-A (LED) UDS-P (LED)	UDS-J2 (LED)	UDS-J UDS-B UDS-K (LED)	UDS-N3 (LED)	UDS-N1 UDS-N2 (LED) UDS-N4	Compatible Scaler Brand
Scaling	101 101					
G1 G1	1-10(G)	1-10	1-9	LOW-HIGH	LOW-HIGH	
G2	1-10(G)	1-10	1-9	LOW-HIGH	LOW-HIGH	
G3	1-10 (G)	1-10	1-9	LOW-HIGH	LOW-HIGH	
G4	1-10 (G)	1-10	1-9	LOW-HIGH	LOW-HIGH	
G5	1-10(G)	1-10	1-9	LOW-HIGH	LOW-HIGH	Competible with
G6	1-10(G)	1-10	1-9	LOW-HIGH	LOW-HIGH	WOODPECKER & EMS
G7	1-10(G)	1-10	1-9	LOW-HIGH	LOW-HIGH	Ultrasonic Scaler
G8	1-10 (G)	1-10	1-9	LOW-HIGH	LOW-HIGH	Oltrasonic Scaler
G9	1-10 (G)	1-10	1-9	LOW-HIGH	LOW-HIGH	
G10	1-10 (G)	1-10	1-9	LOW-HIGH	LOW-HIGH	
G11	1-10 (G)	1-10	1-9	LOW-HIGH	LOW-HIGH	
Periodontics						
P1	1-10(P)	1-7	1-6	LOW-MID	LOW-MID	
P2L	1-3(P)	1-2	1-2	LOW	LOW	
P2LD	1-2(P)	1	1	LOW	LOW	Compatible with
P2R	1-3(P)	1-2	1-2	LOW	LOW	WOODPECKER
P2RD	1-2(P)	1	1	LO#	LOW	& EMS
P3	1-6(P)	1-4	1-3	LOW-MID	TOM-MID	Ultrasonic Scaler
P3D	1-6(P)	1-4	1-3	LOW-MID	LOW-MID	
P4	1-6(P)	1-4	1-3	LOW-MID	LOW-MID	
Endodontics						
E1	1-3(E)	-		LOW	-	
E2	1-3(E)	-:		LOW		
E3	1-6(E)			LOW		
E3D	1-3(E)	_		LOW		
E4	1-6(E)					
		58	-	LOW		
E4D	1-3(E)			LOW		
E5	1-6(E)			LOW	2-4 L	
E5D	1-3(E)	,	,	LOW	_	Compatible with
P4D	1-6(E)	_	— — ·	LOW		WOODPECKER
E8	1-10(E)			LOW		& EMS Ultrasonic Scaler
E9	1-10(E)	62-19		LOW		Ultrasonic Scaler
E10	1-6(E)		_	LOW		
E10D	1-6(E)			LOW	0	
E11						
	1-6(E)	(1-2)		LOW	_	
E11D	1-6(E)			LOW	(==	
E14	1-3(E)	_		LOW		
E15	1-3(E)			LOW		
Cavity Preparatio	n					
SB1	1-10(P)	1-7	1-6	LOW-MID	LOW-MID	
SB2	1-10(P)	1-7	1-6	LOW-MID	LOW-WID	Compatible with
SB3	1-10(P)	1-7	1-6	LOW-MID	LOW-NID	WOODPECKER
SBL	1-10(P)	1-7	1-6	LOW-MID	LOW-MID	& EMS
						Ultrasonic Scaler:

[NOTE]: "G" for the working mode of "Scaling"; "P" for the working mode of "Periodontics"; "E" for the working mode of "Endodontics"; "—" for "not suitable for such model of scaler".



Scan and Login website for more information





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