

Please read this manual before operating

UDS-L LED ULTRASONIC PIEZO 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 piezo scalers. The product is mainly used for teeth cleaning and also an indispensable equipment for tooth disease prevention and treatment. The new product UDS-L LED ultrasonic piezo scaler has scaling, endo, automatic water supply system (optional) and LED functions (optional). 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. The optional function: automatic water supply system.
- 1.1.3 The handpiece is detachable and can be autoclaved to the high temperature of 135 °C and pressure of 0.22MPa.
- 1.1.4 Digital controlled, easy operation and more efficient for scaling.
- 1.1.5 The curing light can be used along with UDS-L LED, utilizing its ultrasonic power to provide electricity for the curing light. More convenient and practical. These features make UDS-L LED to be the new generation product in world dental market.

1.2 Components

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

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

1.2.3 Scope of application

Ultrasonic piezo scaler UDS-L LED is used for the dental calculus elimination and root canal treatment.

1.3 The main technical specifications

1.3.1 Technical specifications of ultrasonic scaler

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a) Power source input: 220-240V~ 50Hz/60Hz 150mA

110V~ 50Hz/60Hz 280mA

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

5V~ 50Hz/60Hz 200mA (optional)

c) Output primary tip Vibration excursion : ≤100µm

d) Output half-excursion force : <2N

e) Output tip vibration frequency: 28kHz±3kHz

f) Output power: 3W to 20W

g) Main unit fuse: 250VT 1.6AL

h) Power source fuse: 250VT 0.5AL

i) Water pressure: 0.1bar to 5bar (0.01MPa to 0.5MPa)

j) Weight of main unit: 0.73kg

k) Weight of power source: 1.2kg

1) Operating mode: Continuous operation

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

n) Degree of protection against electric shock: Type B applied part

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

p) Protection degree against water(used on the pedal): IPX1

q) 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.

1.3.2 Working condition

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

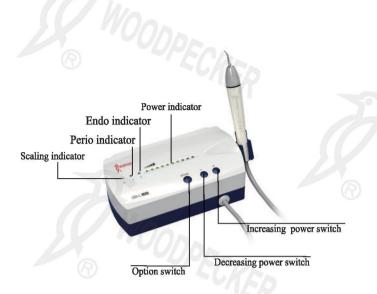
b) Relative humidity: ≤80%

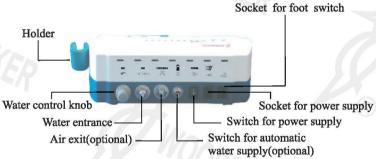
c) Atmosphere pressure: 70kPa to 106kPa

1.4 Installation of the main components

1.4.1 Sketch map for installation and connection.

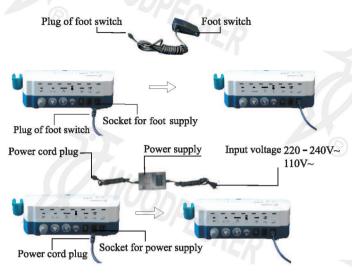
a) Sketch map for front panel and back panel of main unit are showed in picture1





picture1

b) Sketch map for connection of foot switch, power supply and main unit are showed in picture2



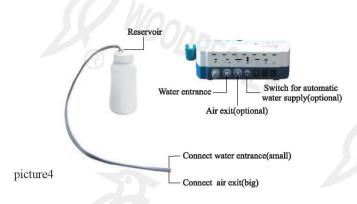
picture2

c) Sketch map for connection of water supply system are showed in picture3

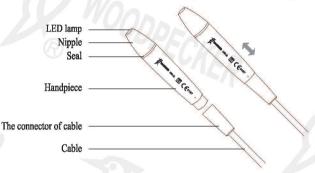


picture3

d) Sketch map for automatic water supply system (optional) are showed in picture4

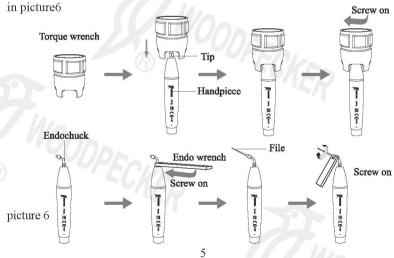


e) Sketch map for connection of detachable handpiece are showed in picture5



picture5

f) Sketch map for how to install tip and endochuck with wrench are showed



DOECKER 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 as 3.5.2 [note 11.
- c) Insert the plug of the foot switch to its socket (picture 2).
- d) Connect one end of the water pipe to the water entrance, and the other end to the clean water source (picture 3).
- e) Screw the scaling tip tightly to handpiece by torque wrench, then connect the handpiece and the connector of cable correctly.
- f) Connect the main unit with output plug of power source, then connect to the power (picture 2).
- g) Switch on the main unit, then the scaling indicator and the first five lead lights of power indicator shine.
- h) Select a suitable scaling tip as you need, screw it on the handpiece tightly by the torque wrench (picture 6).
- i) 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.
- i) 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.
- k) Vibrating intensity: Adjust the vibration intensity as you need, generally turn the knob to the middle grade. According to patient's different sensitivity and the rigidity of the gingival tartar, adjust the vibration intensity during the clinical treatment.
- 1) Water volume adjustment: 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.

- m) The handpiece can be handled in the same gesture as a pen in hand.
- n) 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.
- o) 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.
- p) Unscrew the scaling tip and pull out handpiece, then sterilize them.

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

- 2.1.2 Instruction for main components of detachable handpiece (showed in picture 5):
- a) Nipple: The nipple can be removed. You can screw off the nipple and clean the pole with alcohol termly.
- b) Handpiece seal: The seal can be removed and cleaned with alcohol termly.
- 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.

Notice: Keep the joint of handpiece and the cable connector dry.

- 2.1.3 Instruction of using torque wrench (showed in picture 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 picture 6.
- ② Tip installation: Hold the handpiece, turn the tip toward direction as showed in picture 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 anti-clockwise

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direction.

- 4 Sterilize it in sterilizer after each treatment.
- ⑤ The torque wrench must be cooled naturally after sterilization to avoid scalding when using next time.
- 6 Keep the torque wrench in a cool, dry and ventilated place and keep it clean.
- 2.1.4 Automatic water supply system (optional)
- a) Usage process
- ① After adding enough water into the reservoir, install the reservoir cap on the reservoir properly and tighten it up.
- ② The twin tube is composed of two pipes. The big one is air pipe, and small one is water pipe. Connect the air pipe to AIR connector on the reservoir, connect the water pipe to H₂O connector.
- ③ Turn on the automatic water supply switch on the main unit.
- b) Precaution
- ① Please operate correctly according to the manual, the reservoir cap must be tighten up.
- ② When adding or changing water, please pull out the air pipe first, then pull out the water pipe.
- ③ Under normal automatic water supply condition, the air pump produces the "WOO" sound intermittently, which is common phenomenon.

2.2 Endo function

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

2.2.2 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 hard when the ultrasonic file is in the root canal.
- d) Don't step on the foot switch until the ultrasonic file is in the root canal. The power range is supposed from the 1st to 5th grade.

3. Sterilization and maintenance

3.1 Sterilization of detachable handpiece

- 3.1.1 Autoclaved under high temperature/pressure:
- a) 121 °C/1bar (0.1MPa)
- b) 135 ℃/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 in case of scalding hand.

3.1.2 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 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 life-span. Change a new one once it is damaged or worn excessively.
- e) The following sterilizing methods are forbidden:
- 1) Put handpiece into any liquid for boiling.
- ② Dip handpiece in disinfectors such as iodine, alcohol or glutaraldehyde.
- ③ Put handpiece into oven or microwave oven for baking.

3.2 Sterilization of tips, endo wrench, endochuck

All the scaling tips and endochuck can be autoclaved to high temperature of 135°C.

- 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 Troubleshooting and notes

3.5.1 Troubleshooting

Fault	Possible	Solutions	
	The power plug is in loose	Make the plug insert to the	
The scaling tip doesn't	connect.	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	TER	
	The fuse in the main unit	Contact our dealers or us.	
1111-	is broken		
The scaling tip doesn't	The tip is in loose contact.	Screw the tip on the handpiece	
vibrate but there is	to.	tightly (picture 6).	
water flowing out when	CKEL		
stepping on the foot	TIER		
switch.	24.1	700	

Fault	Possible	Solutions	
	The connect plug between the handpiece and the circuit board is in loose contact.	Contact our dealers or us.	
The scaling tip vibrates	Something wrong with the handpiece.	Send it to our company to repair.	
but there is no spay when stepping on the switch.	Something wrong with the cable.	Contact our dealers or us.	
8	The water control switch is not on.	Turn on the water control switch [note 1].	
· .	There is impurity in the solenoid valve.	Contact our dealers or us.	
KER	The water system is blocked.	Clean the water line by multi- function syringe [note 2].	
There is still water flowing out after the power is off.	There is impurity in the solenoid valve.	Contact our dealers or us.	
The handpiece generates heat.	The water control switch is in a low setting.	Turn the water control switch to a higher grade [note 2].	
The amount of spouting water is too little.	The water pressure is not high enough. Make the water pressure high enough.		
Moor	The water line is blocked.	Clean the water pipe by multi-function syringe [note 2].	
The vibration of the tip becomes weak.	The tip hasn't been screwed on to the handpiece tightly.	Screw the tip on the handpiece tightly(as showed in picture 6).	

Fault	Possible	Solutions	
The vibration of the tip	The tip is loose because of	Screw on the tip tightly (as	
becomes weak.	vibration.	showed in picture 6).	
	The joint of the handpiece and the cable isn't dry.	Dry it by the hot air.	
	The tip is damaged [note 3]	Change a new one.	
There is water seeping			
from the joint of the	The waterproof "O" ring	Change a new "O" ring.	
handpiece and the cable.	is damaged.		
The u-file doesn't vibrate.	The screw cap is loose.	Tighten it.	
	Endochuck is damaged.	Change a new one.	
There is noise coming from the endochuck	The screw cap is loose.	Tighten it.	

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

3.5.2 Notes

[Note l] The water control knob can adjust the water volume according to the symbol

[Note 2] Clean the water pipe with the multi-function syringe of the dental unit (as showed in picture 7)



- a) Cut the water pipe at a distance of 10cm~20cm from the water entrance.
- b) Turn on the power switch.
- c) Connect the multi-function syringe of dental unit to the water pipe.
- d) Disassemble the tip or handpiece.
- e) Step on the foot switch.
- f) Turn on the switch of the multi-function syringe, press the water into the machine and the impurity blocked in the water pipe can be eliminated.
- [Note 3] 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 atomization 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 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 form 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 Don't twist or rub the tip and endochuck.
- 4.1.7 Don't use impure water source and be sure not use normal brine instead of pure water source.
- 4.1.8 If use the water source without hydraulic pressure, the water surface should be one meter higher than the head of the patient.
- 4.1.9 Keep the connector of handpiece and the socket of the cable dry before installing the handpiece.

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- 4.1.10 Don't pull the cable forcibly in case of the handpiece falling off from the cable
- 4.1.11 Don't knock or rub the handpiece.
- 4.1.12 After operation, turn off the power, then pull out the plug.
- 4.1.13 We are only responsible for the safety on the following conditions
- a) The maintenance, repair and modification are made by the manufacturer or the authorized dealer
- a) The exchanged components are original of "WOODPECKER" and operated according to instruction manual.
- 4.1.14 The internal screw thread of the scaling tips produced by some manufacturers maybe coarse, rusty and collapsed. This will damage the external screw thread of the handpiece irretrievably. Please use "WOODPECKER" brand scaling 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 or 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 $^{\circ}$ C to +50 $^{\circ}$ C.
- 4.3.4 If the machine is not used for a long time, please make it get through 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.

5. After service

We offer one year's 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 nonprofessional person.

6. Symbol instruction

essional person.	
ymbol instruction	ECKER
WOODPECKER	Trademark
	Class II equipment
†	Type B applid part
~	Alternating current
<u>></u>	Socket for the foot switch
H ₂ O	Adjustment for the water flow
VENTHOLE	Air exit
50 FPa 106	Atmospheric pressure for storage
	Humidity limitation

M	Date of manufacture
	Manufacturer
\bigcap i	Consult the accompanying documents
	Used indoor only
135°C	Can be autoclaved
~24V ~5V ——	Connection of the electrical supply of $24V\!\!\sim\!,5V\!\!\sim\!$ (optional)
H2O 0.01MP2-0.5MP2	Water entrance pressure 0.01MPa - 0.5MPa
	Appliance compliance WEEE directive
-10°C +50°C	Temperature limitation
IPX0	Ordinary equipment
IPX1	Drip-proof
POWER ON OFF	Drip-proof Power swich
ON OFF	Switch of automatic water supply
C € 0197	CE marked product
FDA	FDA marked product



Authorised Representative in the EUROPEAN COMMUNITY





Got the quality management system certification and CE certification issued by TüV Rheinland

7. Environmental protection

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

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. For technical data, please contact



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

10. Declaration of conformity

10.1 Product conforms to the following standards

EN 60601-1:2006

EN 60601-1-2:2007

EN 61000-3-2:2006

EN 61000-3-3:2008

EN 60601-1-4:1996

EN 60601-1-6:2007

EN 61205:1994

EN ISO 22374:2005

EN 62304:2006

EN 980:2008

EN ISO 9687:1995

EN 1041:2008

EN ISO 14971:2009

EN ISO 7405:2008

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

RF emissions CISPR 11	Group 1	The model UDS-L LED uses 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	Class B	The model UDS-L LED is suitable for used in domestic establish-		
Harmonic emissions EC 61000-3-2	Class A	ment and in establishment directly connected to a low voltage power supply network which supplies buildings used for		
/oltage fluctuations flicker emissions EC 61000-3-3	Complies	domestic purposes.		

Guidance & Declaration — electromagnetic immunity

The models UDS-L LED is intended for use in the electromagnetic environment specified below. The customer or the user of the models UDS-L 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 ±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_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	$<5\% U_T$ $(>95\% \text{ dip in } U_{T})$ for 0.5 cycle $40\% U_T$ $(60\% \text{ dip in } U_T)$ for 5 cycles $70\% U_T$ $(30\% \text{ dip in } U_T)$ for 25 cycles $<5\% U_T$ $(>95\% \text{ dip in } U_T)$ for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the models UDS-L LED require continued operation during power mains interruptions, it is recommended that the models UDS-L 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-L LED is intended for use in. The electromagnetic environment specified below. The customer or the user of the models UDS-L LED should assure that it is used in such an environment.

	liance Electromagnetic environment - guidance
Conducted RF 150 kHz to 80 MHz 3V ms 150 kHz to 80 MHz 3V m 80 MHz to 61000-4-3 80 MHz to 2.5 GHz	Portable and mobile RF communications equipment should be used no closer to any part of the models UDS-L LED including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance 3V d=1.2×P ^{1/2} 80 MHz to 800 MHz d=2.3×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.

NOTE I 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 UDS-L LED is used exceeds the applicable RF compliance level above, the model UDS-L 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-E 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-LLED

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

Rated maximum output	Separation distance according to frequency of transmitter 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 (A)	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.



WOODPECKER Guilin Woodpecker Medical Instrument Co., Ltd. Information Industrial Park, National High-Tech Zone, Guilin, Guangxi, 541004 P. R. China

Europe Sales Dept.: +86-773-5873196, +86-773-2125222

North America, South America &

Oceania Sales Dept.:+86-773-5873198, +86-773-2125123 Asia & Africa Sales Dept.:+86-773-5855350, +86-773-2125896

Fax: +86-773-5822450

E-mail: woodpecker@mailgl.cn, sales@glwoodpecker.cn Website: http://www.glwoodpecker.com

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