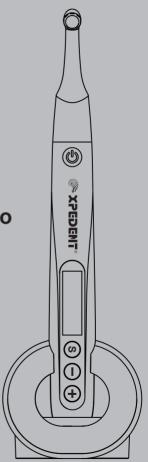


# Endo Motor

## MotoSync Mini Pro

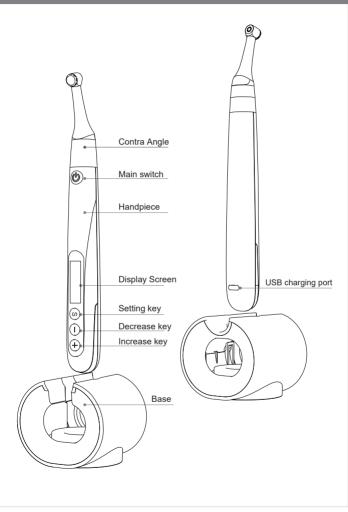
Instruction Manual



Please read this manual before operating.

## 1. Scope of MotoSync Mini Pro

#### 1.1 Parts Identification



## **1.2 Components and Accessories** $(\overline{\oplus} \Theta)$ G Motor Handpiece (1pcs) Base (1pcs) Contra Angle (1pcs) **€**•0= Measuring Wire (1pcs) Lip Hook (2pcs) षार्थ File clip (2pcs) Insulating Sleeve (1pcs) Spray Nozzle (1pcs) 1.3 Options (sold separately) **Disposable Sleeve** Apex Tester (1pcs)

## 2. Symbols used in the User Manual

₩~ XPEDENT°	Manufacturer's LOGO
WARNING	If the instructions are not followed properly, operation may lead to hazards for the product or the user/patient.
ΝΟΤΕ	Additional information, explanation of operation and performance.
SN	Serial number
REF	Catalogue number
	Manufacturer
m	Date of manufacture
	Safety class II device
Ŕ	Type B applied part
	Direct current
X	Do not dispose of with normal household waste
Ť	Store in a dry place
Ĩ	Consult instructions for use
134°C {{{	Can be autoclaved up to a maximum temperature of 134° Celsius
EC REP	Authorized Representative in the European Community

#### 3. Before Use

#### 3.1 Intended Use

MotoSync Mini Pro is exclusively designed for dentists for use with dental root canal instruments in continuous rotation and in reciprocating movement with integrated apex locator.

This device must only be used in hospital environments, clinics or dental offices by qualified dental personnel.

#### 3.2 Contraindications

The integrated apex locator of the MotoSync Mini Pro is contraindicated in cases where patient/user carry medical implants such as pace makers or cochlear implants etc.

Do not use the device for implants or other non-endodontic dental procedures.

Safety and effectiveness have not been established in pregnant women and children.



Read the following warnings before use:

- The device must not be placed in humid surroundings or anywhere where it can come into contact with any type of liquids.
- Do not expose the device to direct or indirect heat sources. The device must be operated and stored in a safe environment.
- 3. The device requires special precautions with regard to electromagnetic compatibility (EMC) and must be installed and operated in strict compliance with the EMC information. In particular, do not use the device in the vicinity of fluorescent lamps, radio transmitters, remote controls, portable or mobile RF communication devices and do not charge, operate or store at high temperatures. Comply with the specified operating and storage conditions.
- 4. Gloves and a rubber dam are compulsory during treatment.
- If irregularities occur in the device during treatment, switch it off. Contact the agency.
- 6. Never open or repair the device yourself, otherwise, void the warranty.

## 4. Installing the MotoSync Mini Pro

#### 4.1 Installation of the contra angle

Make sure 3 pins on contra angle alignment the slots of handpiece, plug them together until it "click" securely into place.



The contra angle can be 360 degrees rotated without take off, make it easy to watch the LCD in treatment by rotating the contra-angle.





- Make sure the assembly is connected properly, otherwise might cause unexpected motor reverse, even hurt the patients After connecting the contra angle and handle, pull it gently to make sure the connection is good.
- The improve insulation of the contra angle during combine apex, we recommend using an insulating sleeve.





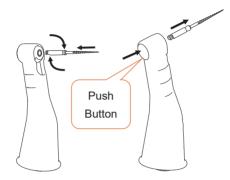
You can also use disposable sleeve (sold separately) instead of insulating sleeve



- Without the insulating sleeve, when performing the apex measurement with handpiece, wear appropriate insulated gloves, and make sure the contra angle does not touch the lips.
- It is advisable to use a rubber dam when performing such treatments.

#### 4.2 Install the file

Turn the file back and forth until it is lined up with interior latch groove and slips into place, lock the file into the contra angle. Hold down the push button on the contra angle and can release the file.

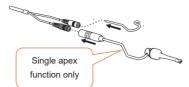




- Inspect the file head before inserting the file. Do not use the damaged file head.
- Make sure the motor is stopped when inserting and removing files.
- Be careful when inserting and removing files to avoid injury to fingers.
- Take care not to touch the Main switch when putting files in. this will cause the file to rotate.
- Pull the file gently to make sure that the file is secure in handpiece properly, otherwise it may pop out and hurt the patient.

#### 4.3 Connecting measuring wire

If want activity apex measurement function, uncap the USB cover on handpiece, insert measuring wire.



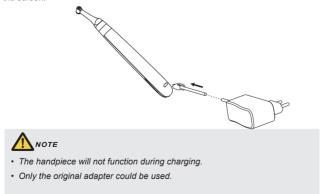
## 

 Match colors to connect the lip hook and file clip, if connect lip hook with black slot, apex auto start will have no function.



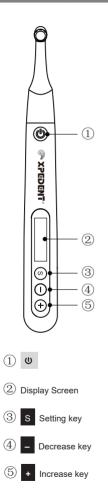
#### 4.4 Connecting Charging

Using adapter connect to handpiece directly, the charge state will show on the screen.



## 5.Use Interface

#### 5.1 Panel key



#### Turn Power On

Press **U** more than 0.5 seconds to turn on the instrument

#### Memory Change

Press - or + during standby state

#### **Operation mode Change**

Press	S	once during standby state,		
press	-	or + to change, then		
press	Û	or wait 5 seconds to confirm		

#### **Parameter Adjustment**

Press S till target parameters, pres		ss			
-	or	+	to adjust, then press	U	
or	or wait 5 seconds to confirm				

#### Turn Power Off

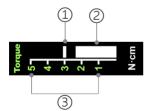
Holding down press U

### 5.2 Screen display



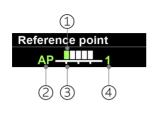
#### Standby interface

- 1 Memory mode number
- ② Speed of this memory program
- ③ Unit of speed: Revolutions Per minute
- (4) Residual battery power
- (5) Operation mode
- (6) Torque of this memory program
- ⑦ Unit of torque: Newton centimeter



#### Standard working mode

- ① The set maximum torque
- 2 Real time torque
- ③ Torque display scale



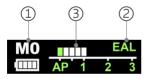
#### Reference point interface

1 Flash bar of apical reverse position

② Apex (Major/Anatomic apical foramen)

③ 0.5mm meter reading (Very near Minor/Physiological apical foramen)

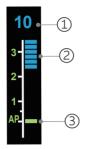
④ 1mm-3mm (Estimate dimension) distance scale from apex (Estimate dimension)



#### Canal measurement standby interface

① Memory mode number M0 is apex stand-alone memory

- 2 Electronic apex locator
- 3 Apex flash bar

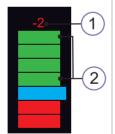


#### Canal measurement start interface

① Indication number The number has no represent of actual length, only for indication

2 Canal length indicator bar

③ Apex flash bar (apex stand alone mode) or reference point flash bar (motor combine with apex mode)



## Canal measurement approach apex interface

① The estimate dimension from apex (Major/Anatomic apical foramen)

0 Canal length indicator bar

## 5.3 Terms and definition

Fwd	Forward ( Clockwise rotation )
	Reverse ( Counter clockwise rotation )
Rev	Be applied to special file, inject calcium hydroxide and other solutions
	Reciprocation
REC	Be applied to reciprocating file, path file and rotary file protection by setting some special angle
	Torque adaptation technology
TAT	Up to setting torque, the motor will move with reciprocating mode; when torque reduce to normal value, the motor will clockwise rotate
	Precision path technology
	PPT's Role in Minimizing File Breakage
PPT	PPT significantly lowers the risk of file fractures with its innovative reciprocating action. The challenging task of patency through manual filing is now accomplishable with an endo motor!
	Electronic apex locator
EAL	In the mode, the device will work like a stand-alone apex locator
AP	Apex
	Major apical foramen or Anatomic apical foramen
Reference point	During combined length determination,normally apical reverse must active before reaching major apical foramen, setting apical reverse position by change the flash bar
FWD Angle	Forward angle (Clockwise rotation angle), activating in REC and TAT operation mode
REV Angle	Reverse angle (Counter Clockwise rotation angle), activating in REC and TAT operation mode
Memory Mode	Such as M0-M10
Operation Mode	Such as FWD, REV, REC and TAT

## 6. Setting

#### 6.1 Selecting memory



MotoSync has 10 memory programs, press – or + to change during standby state, the memory number (①) will change according.

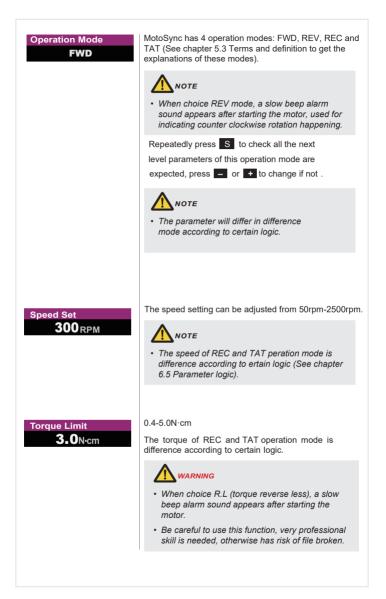
M1-M9 is standard working memory for canal shaping, every memory has its own speed(②) mode (③) and torque(④), all this these parameters can be changed (See chapter 6.2 Setting parameters).

M0 is special memory for stand-alone apex locator function (See chapter 7.3 Apex operation and not suitable condition).

#### 6.2 Setting parameters



Before start the motor, check the operation mode (①) is correct, otherwise press S once during standby state, press or + to change.



AUTO Start ON	MotoSync Mini Pro integrated apex locator, if the lip hook is connecting with patient's lip, when the endo file entering root canal, the motor will start automatically. Press — or + to shut off this function if not expected, press U to start and stop the motor.
	• The motor will start automatically if handpiece (without insulating sleeve) or file touch the patient's lip or operator's fingers (without insulating glove), take care to avoid this, the file rotated by motor has risk of injure someone.
AUTO Stop OFF	When the endo file out of root canal, the motor will not auto stop with default setting, Press - or + to select auto stop "ON" if needed.
Apical Action Reverse	Because of integrated apex locator, when the file reaches the reference point, the motor will response according to setting, it can be Reverse, SlowDown, Stop and Off.
	Press <b>–</b> or <b>+</b> to change. <b>Reverse:</b> rotation direction changing till the file upward a little bit by operator, rotation direction will change back again.
	SlowDown: rotation slowdown when approach the reference point, will reverse if reach.
	Stop: rotation stop when reach the reference point, upward a little bit and will rotate again.
	<b>Off:</b> rotating as usual even if reach the reference point.

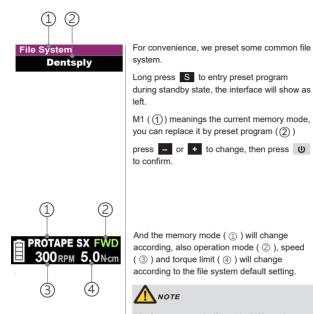


During combined length determination, normally apical reverse must active before reaching major apical foramen, Press — or • to set apical reverse position by change the flash bar (①), the motor will reverse while reaching the flash bar every time.

Forward angle (Clockwise rotation angle) can be adjusted by operator from 10° to 400°, Press or to change.

Reverse angle (Counter Clockwise rotation angle) can be adjusted by operator from 10° to 400°, Press – or + to change.

#### 6.3 Preset programs



All of memory mode (from M1-M9) can be replaced with same mothed.

## 6.4 Advanced setting

Versions V1.0	During power off state, holding down press S then press U to entry advanced setting, the version number software will appear on the display screen.
Auto Power Off 10 Min	Press S again, the "Auto Power Off" time can be change, press – or + to adjust, then press U to confirm. The "Auto Power Off" time can be set from 3-15 minutes.
Auto Return 10 S	Press S again, the "Auto-Return" time can be change, press or or or to adjust, then press ひ to confirm. The default value is 10s.
Volume Vol.2	Press S again, the "Beeper Volume" can be change, press or to adjust, then press U to confirm. The "Beeper Volume" can be set from 0-3.
Brightness 100%	Press S again, the "Brightness" can be change, press or to adjust, then press U to confirm. The "Brightness" can be set from 25%-100%.

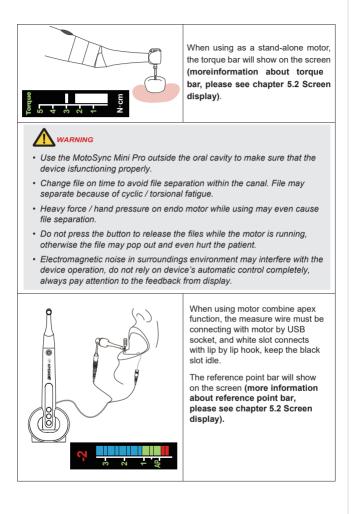
Quick Calibration OFF	Press S again, entry "Quick Calibration" function, press - or + to select "ON", press U to start calibration.
	WARNING
	Before calibrating, making sure the original contra angle is installed, and do not install the file.
	The torque will not correct if calibration without original contra angle or any load on contra angle chuck, and has risk of file broken.
Calibration OFF	Press S again, entry "Calibration" function, press or + to select "ON", press U to start calibration.
	WARNING
	Before calibrating, making sure the original contra angle is installed, and do not install the file.
	The torque will not correct if calibration without original contra angle or any load on contra angle chuck, and has risk of file broken.
Restore settings OFF	Press S again, entry "Restore setting" function, press or to select "ON", press U to start recovering, all the parameters be set by operator will be recovered by default factory setting.
	NOTE
	After restore setting, all the parameters will be covered, record what you need before this operation.
Language English	Press S again, the "Language" can be change, press or to adjust, then press U to confirm.

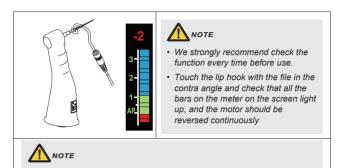
## 7. Operation

## 7.1 Charge

	Displays the present remaining amount of the battery. Less than 15% remains, please charge.
	• If the power if less than 15%, must be rechargedwithin 30 days, otherwise the battery will be damaged.
Low Power Please Charge	If continue to use, the torque and speed will low than the setting value, and low power warming will appear on screen, and the device will stop work.
	Νοτε
	The remaining amount of battery mark indicates a voltage.
	<ul> <li>When a load is applied to the motor handpiece, the remaining amount of battery mark appears to become lower.</li> </ul>
Ĵ	Charging indication appears on the screen, and flashes slowly ( $\textcircled{0}$ ), when battery is fully charged or in a state near full charge, the flash will stop and show like picture ( $\textcircled{0}$ ).
S Arrober	Fully charged will take about 4 hours, depending on residual battery power and battery state. It can be recharged 300-500 times, depending on the operating conditions of the device.
	• When changing, other function will forcibly stop.
	• Do not change the battery, only trained technician or distributor can change the battery, the electronic parts will be damaged if use a wrong battery or install with a wrong way

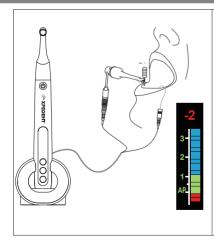
#### 7.2 Motor operation





- The will not be able to perform a precise measurement for every time, especially in cases of abnormal or unusual morphology of the root canal. The user need coordinate with x-ray to check the results of the measurement.
- If the meter does not move when you enter the file, it is possible that the unit is not working normally, therefore, stop using.

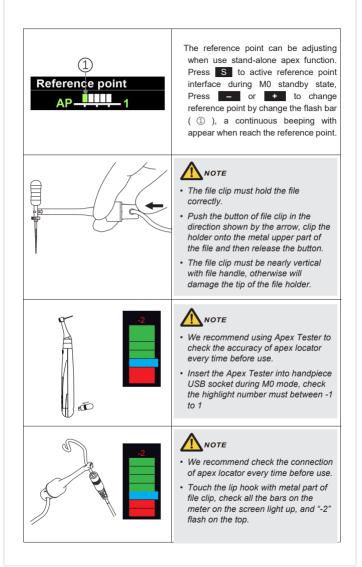
#### 7.3 Apex operation and not suitable condition



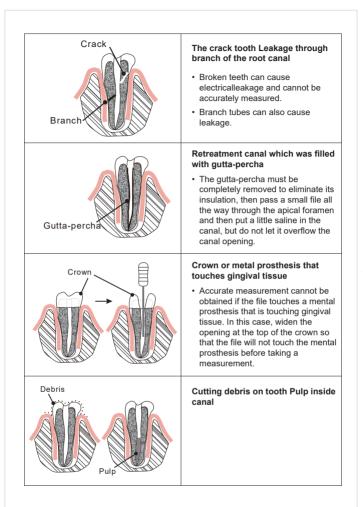
When using as a stand-alone apex locator. We suggest put the handpiece on the Base to get better visual angle.

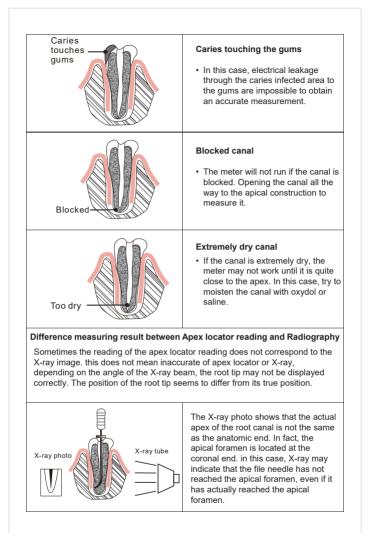
The measure wire must be connecting with motor by USB socket, white slot connects with lip by lip hook, and black slot connect with file clip.

The canal length indicator bar will s how on the screen (more information about canal length indicator bar, please see chapter 5.2 Screen display).

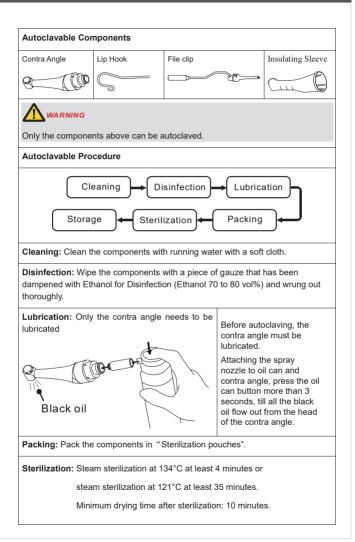


Cannot obtain precise measurements if	the root canal conditions as below
	<ul> <li>Root canal with a large apical foramen</li> <li>The root canal cannot be accurately measured because of the lesion or incomplete development of the apical foramen.</li> <li>The results may show that the length measured is shorter than the actual one.</li> </ul>
Clean	<ul> <li>Root canal blood overflow from the opening</li> <li>If blood spills from the root opening and contacts the gums, it will cause leakage of electricity, which cannot be accurately measured.</li> <li>Wait for the bleeding to stop completely. Clean the root canal and the opening, completely empty the root canal blood, and then measure it.</li> <li>The root canal uses a chemical solution to flow out from the opening</li> <li>If a chemical solution flows out of the root canal, it is impossible to get an accurate measurement. It is important to remove the overflow from the opening.</li> </ul>
Build-up (e.g. cement)	<ul> <li>Broken crown</li> <li>If the crown is broken, a segment of the gingival tissue enters the lumen, and the contact between the gingival tissue and the root file causes electrical leakage, which cannot be accurately measured.</li> <li>In this case, the appropriate material should be used to isolate the gingival tissue.</li> </ul>



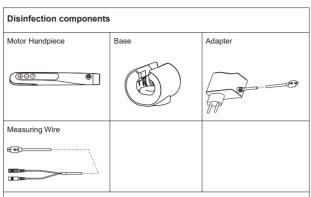


## 8. Maintenance



Storage: Keep the components in sterilization packaging in a dry and clean environment.

- Comply with your national guidelines, standards and requirements for cleaning, disinfection and sterilization.
- Be careful to avoid cross contamination when performing maintenance.
- Must be autoclaved after use for each.
- Do not lubricate the motor handpiece.



Wipe the components with a piece of gauze that has been dampened with Ethanol for Disinfection (Ethanol 70 to 80 vol%) and wrung out thoroughly.

## 

- Do not use anything except Ethanol for Disinfection (Ethanol 70 to 80 vol%).
- Do not use too much ethanol as it's going into machine and damage the components inside.

Single-use component			
Disposable Sleeve			
NOTE			
<ul> <li>Single-use handle sleeve must be disposed of and changed after every treatment.</li> </ul>			
• In the event of non-com	pliance, the contaminat	ion risk increases.	

## 9. Error Warning

Overload Restart Motor	<ul> <li>During reverse processing, the Overload warning may appear on the screen, it means a large load happened greater than the motor force.</li> <li>Press the Main switch to restart motor.</li> </ul>
LowPower Please Charge	The power is very low, charge it immediately

## 10. Troubleshooting

When trouble is found, check the following points before contacting your distributor. If none of these are applicable or the trouble is not remedied even after action has been taken, the product may have failed. Contact your distributor.

Problem	Cause	Solution	Ref. chap
The power is not turned on.	The battery is flat.	Charge the battery.	7.1
tumed on.	Press the main switch too short time.	Press the main switch more than 0.5 seconds.	5.1
	M0 mode is stand-alone apex locator function.	Changing to M1-M9.	6.1
The motor doesn't rotate.	The contra-angle is clogged	Clean or replace the contra-angle.	1
doesn't rotate.	Motor is protected by system or broken.	Check the error warning.	9
	The measure wire connecting not properly.	Check the connection.	4.3
Motor does not run when the file is	The lip hook not properly hooked in the corner of the patient's mouth.	Check the connection.	7.2 7.3
inserted in the canal.	The Auto start function is OFF	Turn the auto start Function ON if necessary.	6.2
The motor Can't	The Auto stop function is OFF.	Press main switch to stop it, setting Auto stop function ON if necessary.	6.2
stop.	There is a short circuit inside the motor handpiece or themotor handpiece cord.	Press "S" button to stop the motor and contact your distributor.	1

	Up to setting torque limit.	Check the torque limit is enough or not.	6.2
Motor spontaneously starts running in	Apical action setting to Reverse	Change setting if it's not expected.	6.2
reverse.	Setting to REV mode.	Change setting if it's not expected.	6.2
Motor does not reverse.	Torque reverse setting might be too high.	Change setting if it's not expected.	6.2
	Apical action setting Stop or OFF.	Change setting if it's not expected.	6.2
Motor speed changes spontaneously	Apical action setting Slow Down.	Change setting if it's not expected.	6.2
Motor alternates between forward and reverse rotation.	Operation mode setting to REC or TAT.	Change setting if it's not expected.	6.2
No sound.	Beep volume set to 0.	Set beep volume to 1, 2 or 3.	6.4
Canal measurement is unstable.	Complex root canal environment.	Check situation of root canals.	7.3

## 11. Technical Data

Manufacturer	Guilin Yikeshi Medical Instrument Co.,Ltd.
Model	MotoSync Mini Pro
Dimensions(Outer box)	260mm ×100mm × 85mm
Dimensions(Endo Motor)	196mm × 64mm × 74mm
G.W. Weight	600g
NET.Weight	114g
Contra-angle	Contra-angle compatible with rotary and reciprocating instruments, equipped with a 2.35 mm shaft conforming to ISO 1797-1:2011, Type 1
Power supply	Lithium ion battery: 3.7V, 1000mAh
Charger power supply	AC 100-240 V
Frequency	50/60Hz
Charger nominal power input	5VA
Torque range	0.4Ncm – 5Ncm
Speed range	50-2500 rpm
Electrical safety class	Class II
Applied part	В
Ambient conditions	Use: in enclosed spaces Ambient temperature: 15°C / 35 °C Relative humidity: <80%; non-condensing at 0° Operating altitude < 2000 m above sea level
Transport and storage conditions	Ambient temperature: -20 °C / +50 °C Relative humidity: 20% - 80 %, non-condensing at > 40 °C Atmospheric pressure: 50 kPa - 106 kPa

## 12. EMC Tables

Guidance and manufacturer's declaration - electromagnetic emissions

The MotoSync Mini Pro is intended for use in the electromagnetic environment specified below.

The customer or the user of the MotoSync Mini Pro should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The MotoSync Mini Pro 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 CISPR 11	Class B	The MotoSync Mini Pro is suitable for use in all
Harmonic emissions IEC61000-3-2	Not applicable	establishments, including domestic establishments and those directly connected to the public low-voltage power supply network
Voltage fluctuations/flicker emissions IEC 61000-3-3	Not applicable	that supplies buildings used for domestic purposes.

#### Guidance and manufacturer's declaration – electromagnetic immunity

The MotoSync Mini Pro is intended for use in the electromagnetic environment specified below. The customer or the user of the MotoSync Mini Pro should assure that it is used in such an environment.

Immunity test	IEC 60601 test	Compliance level	Electromagnetic
	level		environment - guidance

			1
Electrostatic	$\pm 6$ kV contact	<u>+</u> 2, 4, 6 kV	Floors should be wood,
discharge (ESD) IEC 61000-4-2		contact	concrete or ceramic tile. If floors are covered with
ILC 01000-4-2			synthetic material, the
	$\pm 8$ kV air	<u>+</u> 2, 4, 8 kV air	relative humidity should be at
			least 30 %.
Electrical fast	$\pm 2$ kV for power	Not applicable	The test is applicable since
transients/bursts	supply lines		the EUT
IEC 61000-4-4			does not have AC/DC power ports and signal/
	$\pm 1$ kV for	Not applicable	interconnecting cable
	input/output lines		longer than 3m.
S	+1.1-17 1:0 - (-) 4-	Net employed	_
Surge	$\pm 1$ kV line(s) to	Not applicable	The test is not applicable since the EUT does not have
IEC 61000-4-5	line(s)		AC power port.
	$\pm 2 \text{ kV line(s) to}$	Not applicable	
	earth		
Voltage dips,	<5% Uт	Not applicable	The test is not applicable
short	(>95% dip in UT)		since the EUT does not have AC power port.
interruptions and	for 0.5 cycle		The power point
voltage			
variations on	40% <i>U</i> T	Not applicable	
power supply lines	(60% dip in UT)	11	
	for 5 cycles		
IEC 61000-4-11			
	70% Ит		
	(30% dip in UT)	Not applicable	
	(30% dip in UT) for 25 cycles	Not applicable	
	· · · ·	Not applicable	
	· · · ·	Not applicable	
	for 25 cycles	Not applicable	

Power frequency	3 A/m	3 A/m	Power frequency magnetic
(50/60 Hz)			field should be at levels
magnetic field			characteristic of a typical
IEC 61000-4-8			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 and manufacturer's declaration – electromagnetic immunity

The MotoSync Mini Pro is intended for use in the electromagnetic environment specified below. The customer or the user of the MotoSync Mini Pro should assure that it is used in such an environment.

Immuni ty test	IEC 60601 test level	Comp liance level	Electromagnetic environment - guidance
Conduct ed RF IEC 61000-4- 6 Radiated RF	3 Vrms 150 kHz to 80 MHz	3 V V/m	Portable and mobile RF communications equipment should be used no closer to any part of the <b>MotoSyne</b> <b>Mini Pro</b> , including eables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. <b>Recommended separation distance</b> $d = 1.2\sqrt{P}$ $d = 1.2\sqrt{P}$ 80 MHz~800 MHz $d = 2.3\sqrt{P}$ 800 MHz~2.5 GHz

IEC 61000-4- 3	3 V/m 80 MHz to 2.5 GHz	3.5 V/m	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, "should be less than the compliance level in each frequency range. <sup>b</sup> Interference may occur in the vicinity of equipment marked with the following symbol:
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NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected be absorption and reflection from structures, objects and people.

a Field strengths from fixed transmitters, such as base stations for ratio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicated 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 MotoSyne Mini Pro is used exceeds the applicable RF compliance level above, the MotoSyne Mini Pro should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting of relocating the MotoSyne Mini Pro. b Over the frequency range 150 kHz to 80MHz, field strengths should be less than 3 V/m.

## Recommended separation distances between portable and mobile RF communications equipment and the MotoSync Mini Pro

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

Rated maximum output power of	Separation distance according to frequency of transmitter m				
transmitter W	150 kHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2.5 GHz		
	$d = 1.2\sqrt{P}$	$d = 1.2\sqrt{P}$	$d = 2.3\sqrt{P}$		
0.01	0.12	0.12	0.23		
0.1	0.38	0.38	0.73		
1	1.2	1.2	2.3		
10	3.8	3.8	7.3		
100	12	12	23		

For 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) according 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.

#### 13.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 Yikeshi Medical Instrument Co.,Ltd.** 

The industrial design, inner structure, etc, have claimed for several patents by **XPEDENT**, any copy or fake product must take legal responsibilities.

Warranty	Card
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Name of Customer		
Address Details		
Postal Code		
Tel		(I) For
Model		Distributor
Motor Handpiece No.		
Contra-angle No.		
Purchase Date		
Contact Person		
Date	Maintenance Record	Repairer

Guilin Yikeshi Medical Instrument Co.,Ltd. D-8,Guilin National High-tech Zone Information Industrial Park, Chaoyang Road,Qixing

District, Guillin, Guangxi, 54 1004, P.R. China Postal Code: 54 1004 Tel: 0086 0773 5805522 Fax: 0086 0773 5805522 Email: sales@xpediency.cn Website: www.xpedent-intl.com

Dis	tribut	or:	

Seal

### Warranty Card

j. H

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



Guilin Vikeshi Medical Instrument Co.,Ltd. D-8,Guilin National High-tech Zone Information Industrial Park, Chaoyang Road,Qixing District, Guilin,Guangxi,541004,P.R.China Postal Code: 541004 Tel: 0086 0773 5805522 Fax: 0086 0773 5805522 Fax: 0086 0773 5805522 Email: sales@xpediency.cn Website: www.xpedent-intl.com

Distributor:

Seal

#### Warranty Instruction

#### I Period validity

The base, handpiece, power adapter have two years warranty period from the date of purchase.

The contra-angle has one year warranty period.

Other spare parts have six months warranty period.

#### II Range of warranty

Within the warranty period of validity, we are responsible for any troubles caused by quality problems or products technique and structure.

#### III The following are beyond our warranty

1. The damage caused by disobeying the operation instruction or lack of the needed condition.

2. The damage caused by unsuitable operation or disassembly without authorization.

3. The damage on product that caused by users' unexpected drop or impact to product.

4. The damage caused by unadvisable transportation or preservation.

5. There isn't the seal of distributor or the warranty card isn't filled in completed.

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#### **Xpedent Austria GmbH**

Millennium Park 9 6890 Lustenau Austria



#### Guilin Yikeshi Medical Instrument Co., Ltd.

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