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COXO®

Foshan COXO Medical Instrument Co.,Ltd.

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⚠ Warning:
If the sterilization bag is damaged before use, it should be strictly re -clean, disinfected and sterilized on the attachment.

Storage conditions

Put the sterilization equipment in a dry, clean, dust -free environment until the next use.

Troubleshooting

This device does not contain user-maintained parts, and device maintenance should be carried out by designated professionals. If the fault cannot be resolved, please contact your local dealer or our company.

Malfunction	Possible cause	Solution
Aspiration is abnormal	O-ring wear	Please replace the O-ring immediately.
Screen display" Plunger abnormal"	The plunger has reached the maximum stroke	Press and at the same time to reset the plunger to the initial state, and then test.
	There is a foreign object stuck in the plunger	Remove the cartridge holder, check the plunger, and then start and test.
The screen displays E1	Plunger connection failure	Contact the dealer or the manufacture.
The screen displays E2	There is a foreign object stuck in the plunger	Remove the cartridge holder, check the plunger, and then start and test.
	Plunger damage	Contact the dealer or the manufacture.
The screen displays E3	Motor code feedback error	Contact the dealer or the manufacture.

Technical Specifications

Power Adapter	Input: 100-240V～ 50-60Hz 0.5A Max
	Output: DC 5V 2A
Handpiece lithium battery	3.7V 220mAh
Charging stand lithium battery	3.7V 800mAh
Operation mode	Short time
Classified of protection against Electric Shock	Class II
Protection against Electric Shock	Type B applied part
Degree of Protection (IEC 60529)	IPX0
Classified by security	Non-AP/APGtype

Operation, storage and transportation environment

Operation temperature	+5℃-+40℃	Storage temperature	-10℃—+55℃
Operation humidity	20%-80%	Storage humidity	≤ 93%
Atmospheric pressure	80kPa-106kPa	Atmospheric pressure	50kPa—106kPa

Symbols

⚠	Warning		Refer to instruction manual/booklet	~	Alternating current
	Type B applied part		Class II equipment	⎓	Direct current
SN	Serial number	134°C	Sterilizable in a steam sterilizer (autoclave) at the 134° C	⏻	Stand-by
	Indoor use only		Do not dispose of the product into the ordinary municipal waste or garbage system		This way up
	Fragile, handle with care				

Recycling and Disposal

According to the "Administrative Measures for Restrictions and Use of Electrical Electronics Products", "Regulations on the Management Management Management Management Management Management Management Management Management Management Management Management of Waste Electrical Electronics Products", please comply with device safety and use precautions. The method recycled and reused or abandoned this device. Do not handle this device into ordinary urban garbage or garbage systems!

Guarantee

Handpiece and Charging stand warranty time for 24 months from the date of purchase, the product with accessories (adapter) warranty for 6 months, the rest of the accessories do not warranty.
Upon request, the supplier will provide circuit diagrams, component lists, legends, calibration details, or other information necessary for qualified technicians to help users repair equipment parts designated by the manufacturer for repair.

COXO®

Dental Anesthesia Booster
User Manual



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Safety

Before using this device, please read the following information carefully.

1) The device must be used within the scope mentioned in the manual. If the user does not operate according to the instruments or use the device for other purposes, the manufacture will not bear any responsibility.
2) When using an external power supply, please confirm whether the voltage is within the voltage range marked by the power adapter, otherwise it may cause injury to the operator or the patient.
3) Please use original parts, otherwise it is dangerous to patients or operators, and it will cause damage to the equipment.
4) To avoid electric shock, do not insert other objects into the device.
5) Avoid cleanerentering the inside of the device to avoid short circuit and malfunctions.
6) Immediately stop using and turn off the device when improper use or physical damage causes serious abnormalities in the device. For repair, only manufacturers and franchisees can open the device.
7) Please use original power adapter. Other power adapter will result in damage to lithium battery and control circuit.
8) Keep device clean and dry.
9) The handpiece cannot be autoclaved.
10) Please use disposable injection needles and anesthetic approved by the state.
11) Users cannot remove the battery by themselves.
12) Do not modify this device, any modification may compromise the safety and effctiveness of the device.
13) The device has electromagnetic interference, please do not use it around a patient with a pacemaker or electronic surgery.
14) Unstable voltage and exposure to electromagnetic fields can interfere with the normal operation of the device.
15) For the disposal of accessories such as batteries, please obey local regulations.
16) Check the device before use to ensure that there is no abnormality and use it
17) This instrument is only for professional dentist use.

Intended use

1) This device is intended for use only in subcutaneous or intramuscular injections of local anesthetic for dental applications. It should not be used for intravascular (IV) or other routes of administration. This device should be used only by practitioners who are familiar with, and observe applicable labeling regarding the use of local anesthetics for dental applications.
2) This device needs to be used in conjunction with disposable injection needle and anesthetic.
3) This product is only suitable for use in hospitals and clinics and must also be used by qualified dentists.

Contraindications

1) Patients with active periodontal disease are prohibited from intra-ligament injections.
2) The dentist with a pacemaker is disabled.
3) Patients with cardiac pacemakers (or other electrical equipment) and warned not to use small appliances (such as Electric razors, hair dryers, etc.) are disabled.

Installation/Removal of the cartridge holder

Installation

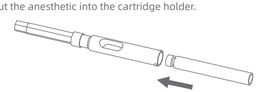
Warning:

- This device must use the original factory equipped cartridge holder, otherwise it will not work or cause damage.
- Do not install/remove the cartridge holder when the handpiece is in operation.
- Before installation, please reset. If the push rod is not fully reset, it is equipped with drug bottle and cartridge holder . The pushing the push can not rotate and lock it. There is a risk of dropping. Please confirm that the cartridge holder and injection needle is in place before treatment!
- Do not pull out the protective cover of the injection needle before the treatment starts, attention to hurt your hands.
- After puncture and needle insertion, please perform suction back before injecting anesthetic to avoid injecting anesthetic into the blood vessel.
- Test the running device before using it. If the device is abnormal, do not useit, contact the dealer immediately.

1) According to the clinical needs, select the disposable injection needle for oral cavity, and then tighten clockwise.



2) Put the anesthetic into the cartridge holder.

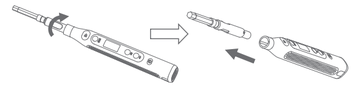


3) Insert the cartridge holder into the handpiece and turn it clockwise so that it snaps tightly against the handpiece. Gently pull the cartridge holder out to confirm that the cartridge holder is firmly installed.

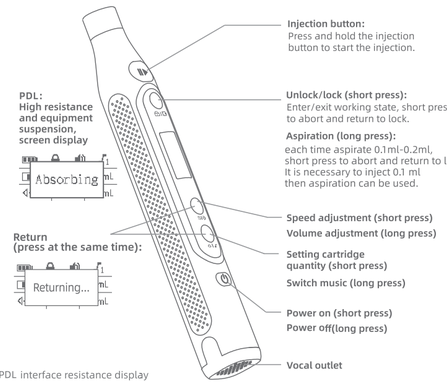


Removal

1) Pull out the cartridge holder by turning it counterclockwise.



Use



PDL interface resistance display

- Extremely low resistance
- Low resistance
- Middle resistance and start to slow down
- High resistance and equipment suspension

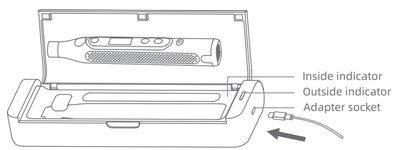
Press Unluck/lock，be careful not to touch the injection button.



Charging

Charging the handpiece through the charging stand, the charging stand can be charged through an external adapter.

Charging status:



♦Inside indicator (Charging stand power status):

A （No adapter connected):
Steady green: full charge
Steady orange: no full charge
Orange flashing: low charge
Light off: exhaustion

B （Adapter connected）:
Orange flashing: charging
Steady green: full charge

♦Outside indicator（Handpiece power status）:

A （No adapter connected):
Orange flashing: charging

B （Adapter connected):
Steady orange: handpiece not in charging stand
Steady green: full charge
Orange flashing: charging

Warning:

- Please use the original charging seat and power adapter, otherwise it may cause damage to the control circuit.
- It is strictly forbidden to charge in a humid environment.
- The device cannot work when charging.
- If you do not use it for a long time, please charge the equipment at least once a month.
- If the battery is damaged, please contact the dealer; users must not replace them without authorization.

Maintenance

Check the O-ring daily for signs of wear and replace the worn O-ring immediately.

Cleaning, Disinfection and Sterilization

Cleaning

1) Handpiece: Wipe off any visible residue with a clean damp cloth wrung out.
2) Cartridge holder: Rinse off with tap water and finally dry with a dry cloth.

Disinfection

1) The handpiece surface can be disinfected by wiping with 75% ethanol.
2) The cartridge holder can be soaked in 75% ethanol for 30 minutes for disinfection.

Drying

Please dry immediately after cleaning and disinfection. It is recommended to use compressed air to dry.

Sterilization

1) Serializable components: cartridge holder.
2) Package with a sterilization bag according to approved by the state before sterilization.
3) Sterilization method: Pressure steam sterilization is commended.
4) Sterilization conditions: At 210kPa and 134℃, more than 5 minutes.