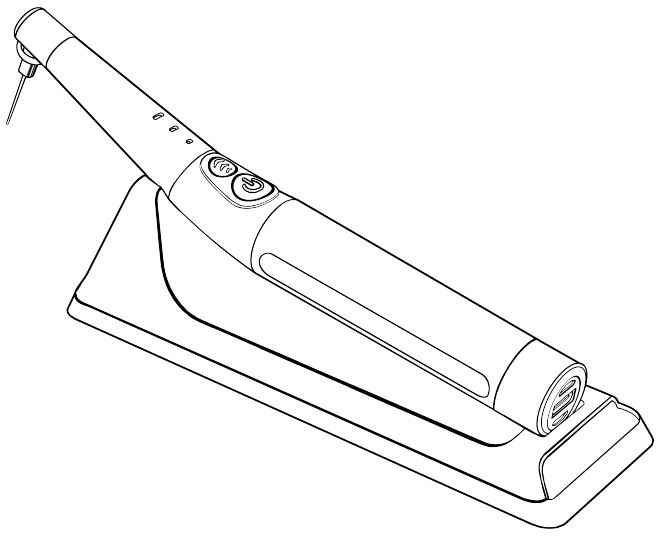
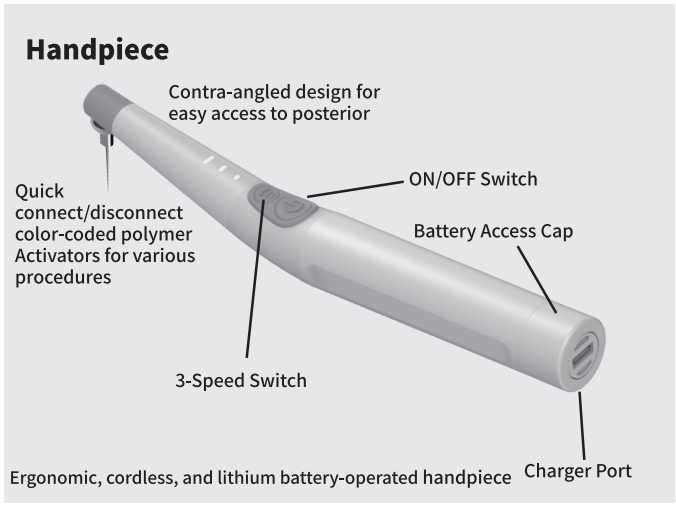
A3 ENDO ACTIVATOR
INSTRUCTIONS FOR USE



Sonic handpiece and Activator tips for use in endodontic treatment.



1. Introduction

1.1 Features:
1.1.1 3-speed sonic motor: High speed, Medium speed and Low speed.
1.1.2 Strong, flexible medical grade polymer tips, uncoated and non-cutting tips.
1.1.3 Ergonomic, cordless, and lithium battery-operated handpiece.
1.1.4 Constant speed output. The activating effect is not affected by the decrease of battery power.
1.2 Indication for use:
The Endo Activator is used in endodontic treatment by application of sonic energy. The Activator tips are used in conjunction with the handpiece Driver to provide the energy for tip oscillation and vibration. Evidence-based endodontics has shown that cavitation and acoustic streaming improve debridement and the disruption of the smear layer and biofilm. Activated fluids promote deep cleaning and disinfection into lateral canals, fins, webs, and anastomoses. A cleaned root canal system facilitates 3-D obturation and long-term success.
1.3 Clinical applications:
1.3.1 Debridement and disruption of the smear layer and biofilm
1.3.2 Placement of calcium hydroxide and MTA around root curvatures
1.3.3 Removal of residual obturation materials during retreatment procedures
1.4 Contraindications:

2. Technical Specifications

2.1 Size of handpiece: 23mm×23mm×190mm
2.2 Net weight of handpiece: 65g
2.3 Applied parts: Activator tips
2.4 The components of device (Packing list):
1. Handpiece 1pcs 2. Base 1pcs 3. Activator tip 30pcs
4. Adapter 1pcs 5. Disposable sleeve 1set 6. Instructions for use 1pcs
2.5 Rechargeable lithium battery:
Battery model:14500, Battery capacity: 850mAh
Battery has over-voltage, over current and short circuit protection
2.6 Adapter
Input: 100-240V~ 50/60Hz
Output: 5V⎓1A
2.7 Work condition:
Environment temperature: +5°C to +40°C
Relative humidity: 30%~75%
Atmosphere pressure: 70kPa to106kPa
2.8 Safety classification
2.8.1 Protection type against electrical shock: Class II
2.8.2 Protection degree against electrical shock: Type B
2.8.3 Protection again2st harmful ingress of water or particular matter: ordinary equipment (IPX0), can’ t be waterproof.
2.8.4 Operation mode: short time run equipment.
2.8.5 Safety in the presence of flammable anesthetic mixture with air, oxygen or nitrous oxide: not suitable under this condition.

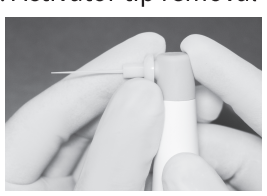
3. Precautions:

3.1 The Endo Activator is only to be used by dental professionals.
3.2 The Endo Activator is comprised of the handpiece and Activator tips of various sizes. The system functions as intended when the component parts are used together. Any other manufactured “tip” is not interchangeable or compatible with this system.
The reference size of tips: SMALL (15/02), MEDIUM (25/04), LARGE(35/04).
3.3 All endodontic procedures should be performed with a disposable sleeve placed over the handpiece.
3.4 The disposable sleeve and Activator tips are for single-patient use only and should be discarded following treatment. Proper disposal of Activator tips and disposable sleeve is required in accordance with local laws and regulations.
3.5 The handpiece provides 3-speed sonic motor options (High, Medium, Low). The power settings used are ultimately determined by the procedure to be performed, the clinician’ s experience, and the power needed to efficiently complete the clinical task.
3.6 Please recharge the battery at least 2 hours before first time usage.
3.7 Only the original adapter could be used, because other brand adapters are likely to damage the circuit.
3.8 It is forbidden to use metal or other conductors to touch the charging socket of handpiece, because it may burn the internal circuit or make the lithium battery short circuit.
3.9 To avoid electromagnetic interference, the device should be installed at the medical site which meet the requirement of EMC.

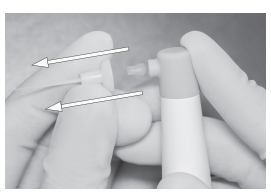
4. Step by step instructions for use

4.1 Prepare canal to produce a fully tapered shape.
4.2 Fill pulp chamber with NaOCl, EDTA, or other final rinse solution.
4.3 Select the Activator tip that manually fits loosely within 2 mm of working length.
4.4 Place the disposable sleeve over the complete length of the handpiece.
4.5 Attach the Activator tip over the disposable sleeve protected handpiece. The Activator should snap on firmly, promoting a secure connection with the handpiece.
4.6 Place the attached Activator tip into the prepared root canal.
4.7 Press the ON/OFF switch to activate. Depress the 3-speed switch to select High speed, Medium speed or Low speed.
4.8 Use a pumping action to move the handpiece /Activator in short 2-3 mm vertical strokes.
4.9 Hydrodynamically agitate the intracanal solution for 30-60 seconds.
4.10 Irrigate, then use intracanal suction to eliminate loose debris.
4.11 Repeat the above steps for each intracanal irrigant used.
When the clinical procedure has been completed, remove the attached tip by grasping the large circular clean guard portion of the connected Activator with fingers and snap off. Pull the Activator off the handpiece by firmly supporting the contra-angled neck of the handpiece. Next, remove the disposable sleeve and discard. The disposable sleeves and Activator tips are for single-patient use only and should be discarded following treatment.
4.12 In general, to maximize clinical performance, select either High speed or Medium speed to encourage debridement and promote the disruption of the smear layer and biofilm. Use Low speed to effectively deliver intracanal materials, such as calcium hydroxide or MTA.
The power selected is based on the length, diameter, and curvature of any given root, and the energy required to effectively accomplish the clinical task.
4.13 Press and hold the ON/OFF switch to turn off the endo activator.
4.14 The endo activator will turn off automatically if don’ t any action within 2 minutes, turn it on by press ON/OFF switch.

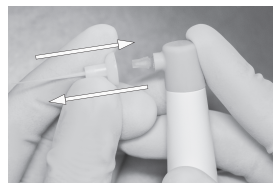
5. Activator tip removal



5.1 Firmly support the head of the handpiece with your thumb while grasping the white, circular, flange portion of the Activator tip with opposite thumb and forefinger.



5.2 Use your thumb to maintain support of the handpiece and pull the Activator tip STRAIGHT off. Keep the handpiece head and Activator tip aligned during the removal process.



5.3 The Activator tip snaps ON/OFF in exactly the same alignment. NEVER use a clockwise or counterclockwise motion to remove a tip. NEVER twist, turn or torque the tip when removing.

6. Battery charging and status indication

6.1 The three power indicators flashing display on the handpiece, indicating that the battery needs to be charged, please charge it in time.
6.2 When the battery needs to be charged, connect the plug of the adapter into the AC100V-240V power supply. Then connect the output plug of the adapter to the charger port of the handpiece.
6.3 The three power indicators scroll display on the handpiece indicate that charging is in progress, the three power indicators change from scrolling display to constant on, indicate that the battery is fully charged.
6.4 Please pull out the adapter plug after charging.

7. Disinfection:

7.1 For infection control, select the appropriately sized Activator tip and remove it from the plastic package.
The Activator tip should be cleaned and disinfected with a 2x2 gauze moistened with a disinfecting solution such as alcohol or sodium hypochlorite.
IMPORTANTLY, the Activator tips are intended for single-patient use only.
7.2 Use a disposable sleeve over the entire handpiece. Upon removing the disposable sleeve, the outer surface of the handpiece may be wiped down with a mild detergent or disinfecting solution. DO NOT submerge the handpiece in any disinfecting solution or autoclave.
7.3 Never over-saturate the handpiece with any disinfecting solution.

8. Troubleshooting

Faults	Possible causes	Solutions
No response.	1. Battery is out of power. 2. Battery is protected. 3. Faulty of battery.	1. Charging. 2. Please put the curing light into the pedestal for charging, then the battery works again. 3. Replace with a new original battery.
The handpiece can't be charged.	1. The adapter is not connected well. 2. Using the wrong adapter. 3. Faulty of adapter.	1. Reconnect the adapter. 2. Use the original adapter. 3. Replace with a new original adapter.

If all the above solutions have been completed, the machine still cannot work normally. Please contact our special repair shop or us.

9. Warranty

9.1 Manufacturer warrants products to the original purchaser against defect in material and workmanship under normal practices of installation, use and servicing.
9.2 The endo activator is warranted for 12 months from the date of purchase.
9.3 Any damage by incorrect use and not quality problem, even in its guarantee period, free service won't be provided by the manufacture.

10. Symbol and definition

	Power on, ON/OFF Switch		3-Speed Switch
	Class II equipment		Used indoor only
	Follow Instructions for Use		Appliance compliance WEEE directive
106kPa 70kPa	Atmospheric pressure for storage	+55°C -20°C	Temperature limitation for storage
93% 10%	Humidity limitation for storage	IPX0	Ordinary equipment
	Type B applied part		Manufacturer
	Date of manufacture		

Dentalzone