





Ultra X | Key Features



Ultrasonic Activation Device



45 kHz High Frequency



Application Based Multiple Tips



1500 mAh Powerful Battery



Two Power Modes with LED Indicator



Contra-angle Design



Light Weight & Ergonomic



Cordless Irrigation Device

Ultra X | Battery

1500 mAh Lithium Battery



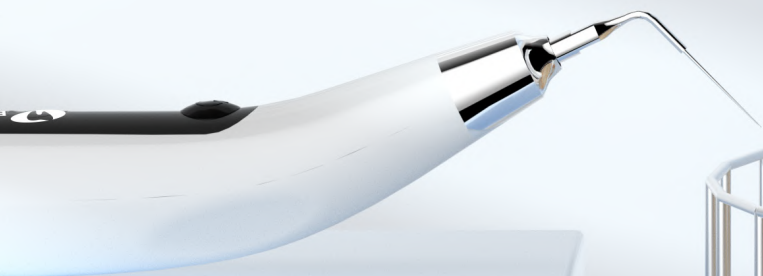
Battery Level Indicator



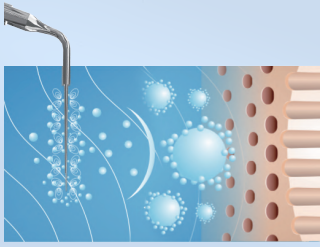
4.5 Hrs of Continuous Operation



Option of Direct Plug & Play



In Action



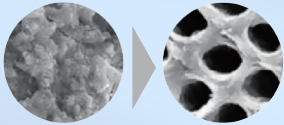
Cavitation Effect

It is the process of formation of millions of gas bubbles in the irrigation solution. These gas bubbles grow in size, oscillate in different directions and explode into the liquid, producing powerful cleaning action

Acoustic Streaming

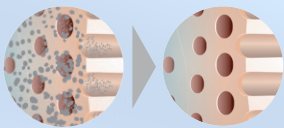
It is a unidirectional flow of liquid produced by ultrasonic waves. The movement of the tip generates a special effect called acoustic turbulence, which accelerates the flow of liquid materials inside the root canal

Indication



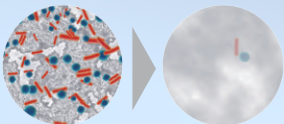
Smear Layer Removal

Effective in the removal of the smear layer and unplugging of dentinal tubules



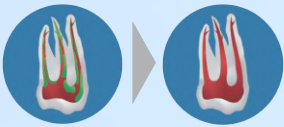
Dentin Chips Removal

Ultrasonic agitation forms suspension of residual dentinal chips and tissue remnants with irrigant and facilitates their easy removal



Biofilm Disruption

Ultrasonic cavitation disrupts the biofilm and helps to reduce bacteria load in the canal

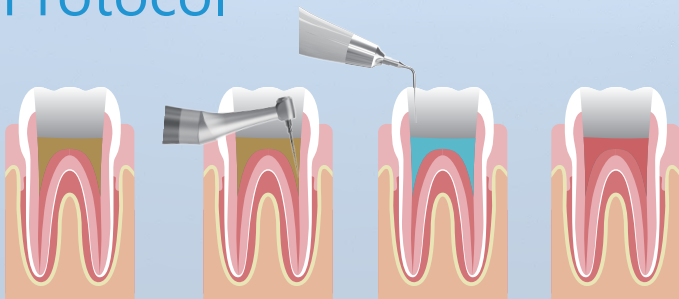


Cleaning of Complex Anatomy

Ultrasonic activation helps irrigants to flush into undetected or un-instrumented canal anatomy like isthmus, fins, lateral canals, apical ramification etc. Also helps to remove vapour lock



Protocol



- Prepare the root canal up to required size with the help of shaping and finishing instruments
- Choose the desired disinfectant and flushing agents for cleaning, debridement and disinfection of canals
- Fill the chosen irrigation solution into the canal, never run Ultra X without irrigating solution
- Select the Ultra X tip of desired size and length which passively fits into canal, always keep 2 - 3 mm short of apex

- Activate solution using short vertical up & down strokes for 30 seconds. Be careful to not breach apical 2mm
- Use the device gently and never apply pressure or wedge the tip inside the canal. If any points of resistance, then retrieve the ultrasonic tip
- Replenish the irrigating solution, use suction to remove the loose debris. Repeat the cycle 4 to 5 times
- Completely dry the canal and fill it with choice of obturation material
- It is always recommended to isolate the tooth using rubber dam and use personal protective barriers like head gear, mask, eyeglasses etc