

Satelec/Acteon Suprasson Newtron Ultrasonic Scaler (Project 05-39)
(7/06)



The Satelec/Acteon Suprasson Newtron piezoelectric ultrasonic scaler is designed for integration with Pelton & Crane, A-dec, DentalEZ, and other dental delivery units. The handpiece is mounted on the instrument-holder of the control-head and is identical to Acteon's stand-alone P5 Newtron ultrasonic scaler handpiece. According to Acteon, the Suprasson Newtron has the broadest frequency range, the largest vibration amplitude, and one of the broadest power ranges on the market. Power and coolant level adjustment knobs are located on the control-head. The handpiece is activated with the unit rheostat. The Suprasson Newtron comes with a set of 3 scaling tips, wrenches for inserting and removing the tips, and a sterilization cassette. Forty additional tip designs are available for use in periodontics, surgical and non-surgical endodontics, restorative dentistry, and implant maintenance. The Suprasson Newtron is purchased from the dental unit manufacturer when purchasing the dental unit, or it can be added at a later date. Additional handpieces, tips, and accessories should be ordered from Satelec/Acteon. The Suprasson Newtron handpiece comes with a one year warranty from the delivery unit manufacturer.



Manufacturer:

Acteon, Inc.
130 Gaither Drive, Suite 100
Mt. Laurel, NJ 08054
(800) 289-6367
(856) 222-9988
(856) 222-4726 FAX
www.acteongroup.com

Suggested Retail Price:

\$1,300.00	Suprasson Newtron Scaler (item #2904), incorporated with Pelton & Crane* dental unit - includes control module with wiring harness, air-operated electric switch, potentiometer, handpiece tubing, handpiece, steribox, wrenches, Intro Scaling Kit (3 tips: #1, #10Z, #H3)
\$425.00	Additional Suprasson Newtron Handpiece (item #F12281). Purchased from Satelec/Acteon
\$320.00	Additional Intro Scaling Kit (item #F00922)—includes 3 tips: #1, 10Z, H3. Purchased from Satelec/Acteon

*When purchased with an Adec 500-series unit (item #54-0077-00) the retail price is \$1,450.00. When purchased with a DentalEZ unit (item #3680-296) the retail price is \$1,365.00.

Government Price:

\$767.00	Suprasson Newtron Scaler (item #2904), incorporated with Pelton & Crane* dental unit (contents as listed above)
\$255.00	Additional Suprasson Newtron Handpiece (item #F12281). Purchased from Satelec/Acteon
\$192.00	Additional Intro Scaling Kit (item #F00922)—includes 3 tips: #1, #10Z, #H3. Purchased from Satelec/Acteon

*When purchased with an Adec 500-series unit (item #54-0077-00) the govt price is \$899.00. When purchased with a DentalEZ unit (item #3680-296) the govt price is \$709.80.

ADVANTAGES:

- + Scaler readily accessible at control-head
- + Acceptable noise level
- + Effective at calculus removal
- + Autoclavable handpiece
- + Performed reliably throughout evaluation
- + Easily-adjusted, sufficiently-focused water spray
- + Learning curve not as steep as with other piezoelectric scalers
- + Provides dentist with ready access to ultrasonic scaler
- + Scaler waterlines cleaned with unit waterlines
- + Forty additional endodontic, periodontic, and restorative ultrasonic tips available

DISADVANTAGES:

- Power adjustment control may not be readily accessible on control-head
- Tip insertion and removal requires extra step with wrench
- No swivel feature at base or tip of handpiece
- No power boost capability in foot control
- May require multiple handpiece purchases for high-volume practice
- Only irrigant option is dental unit water

SUMMARY AND CONCLUSIONS:

The Satelec/Acteon Suprasson Newtron is a piezoelectric ultrasonic scaler designed for integration with the dental delivery unit. The handpiece is mounted on the instrument holder-bar of control-head, providing ready access for the operator. Satelec/Acteon offers numerous ultrasonic tips for use in preventive dentistry, endodontics, periodontics, and general dentistry, however only the scaling capabilities of the Suprasson Newtron were evaluated in this project. The hygienist and prophylaxis-technician evaluators found the scaler to be well-accepted by patients, effective in removing calculus, and relatively quiet. The water spray was appropriately directed and there were no reported instances of overheating of the handpiece. The handpiece was found to be lightweight and somewhat wider at the base than most magnetostrictive handpieces. Satelec/Acteon recommends use of its color-coded wrenches for safe ultrasonic tip insertion and removal, however clinical evaluators noted this creates an additional step in the process. The Newtron handpiece has the advantage of being autoclavable, however this requires the purchase of additional Newtron handpieces to allow for timely processing. A few evaluators noted the lack of a handpiece swivel-feature and the lack of a power-boost feature in the foot-control as drawbacks. Most evaluators said they would consider purchasing the Suprasson Newtron, and gave overall assessments ranging from Outstanding to Marginal. The **Suprasson Newtron** ultrasonic scaler is rated **Acceptable** for use in US Air Force dental facilities.