

60-12 Endo Analyzer 8005 (Project 99-41) (2/00)

The Endo Analyzer 8005 is both an endodontic pulp vitality tester and electronic apex locator from Analytic Sybron Dental Specialties. The company claims that it provides pulp testing that is pain-free and has consistent, microprocessor control. The apex locator function is advertised to accurately locate the apical foramen. The unit can be used in the presence of sodium hypochlorite, anesthetic solutions, alcohol, EDTA, RC Prep, blood, purulence, and other liquids as well as in the presence of necrotic tissue. However, the best clinical results are said to be achieved when the unit is used in combination with sodium hypochlorite. The Endo Analyzer 8005 features two self-calibrating apex location programs that utilize five frequencies with graphical display of the apical foramen in 0.1-mm increments as well as an audible chime when the foramen is reached.

Manufacturer:

Analytic Sybron Dental Specialties
1717 West Collins Avenue
Orange, CA 92867
(800) 346-3636
(714) 516-7979
(714) 516-7911 FAX
www.analytic-endodontics.com

Suggested Retail Price:

\$1295.00 Endo Analyzer Model 8005 (part number 973-0237) includes

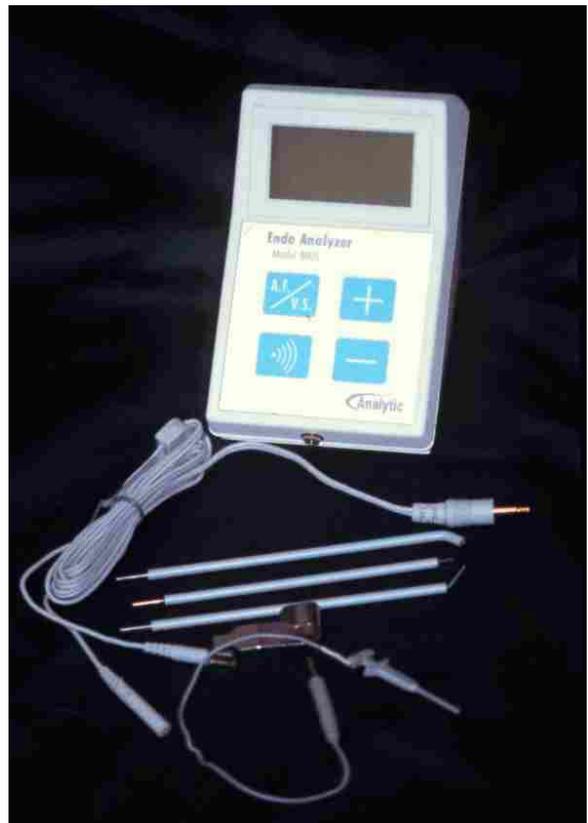
- Connecting Lead
- Standard Vitality Scanner Probe
- Mini Crown Vitality Scanning Probe
- Apex Finder Bifurcated Probe
- Apex Finder File Clip
- Lip Clip

Government Price:

\$841.75 Endo Analyzer Model 8005 (part number and contents as listed above)

ADVANTAGES:

- + Combination of pulp vitality tester and apex locator in one unit.
- + Extremely easy to use.
- + Auto on and off feature.
- + Pulp vitality tester found to be consistently accurate.
- + Pulp vitality features are adjustable.
- + Mini-probe allows reliable pulp testing of teeth with full-coverage restorations.
- + Reported to be pain-free to patients.
- + Apex locator function reported to be accurate under appropriate conditions.
- + Automatically calibrates which reduces time.
- + Apex location feature can be set to read short of anatomical apex, if desired.
- + Facilitates working length determination in difficult cases.
- + Lightweight and portable.
- + Large, easy-to-read display.



- + Seamless construction design that facilitates cleaning and disinfection.
- + Batteries are easy to change.

DISADVANTAGES:

- Unit is extremely sensitive near the apex and difficult to "zero out."
- Sodium hypochlorite found to be the only canal irrigant that produced reliable readings.
- Bifurcated probe for quick-touch reading was unreliable.
- Wire exiting apex finder clip may have a weak point that could lead to early failure.

SUMMARY AND CONCLUSIONS:

The Endo Analyzer 8005 combines both an electronic apex locator and electric pulp vitality tester in one compact unit. The evaluator found it to be extremely easy to use and the pulp-testing feature provided consistent, accurate, and pain-free operation. The electronic apex locator features both audible and graphical displays of canal length and was judged to be accurate and easy-to-use. An added feature is that it can be set to read slightly short of the apical foramen if desired. On the negative side, the unit was found to be extremely sensitive near the apex and was difficult to "zero out" at the apical foramen. Also, the wire lead from apex finder clip was found to have a weak junction, which may lead to early breakdown. Because of its accuracy and ease of use, the evaluator recommended the Endo Analyzer 8005 be purchased for his clinic. **The Endo Analyzer 8005** is rated **Recommended** for use by the federal dental services.