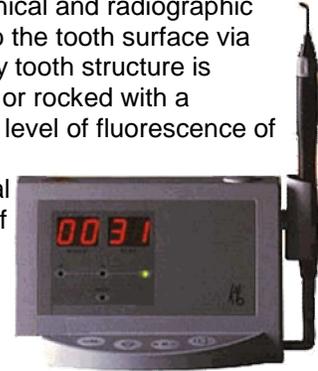


65-26 DIAGNOdent (Project 00-30) (9/01)

The DIAGNOdent is a laser-probe handpiece that uses 1-milliwatt, 655-nanometer wavelength light for the detection of caries. The device, which is intended as an adjunct to the clinical and radiographic detection of caries, works by shining pulsed light of a known wavelength onto the tooth surface via specially-designed tips. After a baseline measurement of the patient's healthy tooth structure is made, the tip is placed on questionable areas of the tooth and slowly rotated or rocked with a pendulum-like motion. The unit's internal processor interprets changes in the level of fluorescence of



the light emitted back by the tooth as indicative of caries. A numerical reading is displayed on the front of the DIAGNOdent and an audible signal is sounded. KaVo America claims that the device works through non-cavitated tooth structure and can be used, over time, to monitor changes in the degree of decalcification of a suspect area. The DIAGNOdent is 150mm W x 110mm D x 120mm H and weighs 1.3 pounds. The handpiece attaches to



the back of the base unit via a four-foot-long cord.

Manufacturer:

KaVo America Corporation
340 East Main Street
Lake Zurich IL 60047
(888) 528-6872
(847) 550-6800
(847) 550-6825 FAX
www.kavousa.com

Suggested Retail Price:

\$2600.00 KaVo DIAGNOdent 2095 (item number 574 0500) includes:

- Battery pack
- 5 AA batteries
- Handpiece tubing
- Handpiece gripping sleeve
- Light-tip cassette
- 2 Light tips A
- 1 Light tip B
- Operating instructions

\$85.00 Additional Light Tip A (item number 574 1311)

\$85.00 Additional Light Tip B (item number 574 1321)

Government Price:

\$1685.00 KaVo DIAGNOdent 2095 (item number and contents as listed above)

\$54.00 Additional Light Tip A

\$54.00 Additional Light Tip B

ADVANTAGES:

- + Non-invasive means to assist in caries diagnosis.
- + Is diagnostically accurate.
- + Particularly helpful in determining the status of questionable lesions.
- + Short learning curve.
- + Compact design.

- + Small diagnostic tips permit assessment of small lesions.
- + Instructions are complete and easy to read.

DISADVANTAGES:

- Comes with a limited number of diagnostic tips.
- Calibration process requires additional time for use.
- Is of limited use when assessing secondary caries associated with existing restorations.

SUMMARY AND CONCLUSIONS:

The DIAGNOdent 2095 is a laser-probe handpiece that uses 1-milliwatt, 655-nanometer wavelength light for the detection of caries. Clinical evaluators reported that the DIAGNOdent had a short learning curve and was accurate. They appreciated having a non-invasive method for diagnosing questionable carious lesions. Although the DIAGNOdent requires additional time to use, most users felt that this is justified because it ensured an accurate clinical diagnosis. Evaluators felt, however, that the time requirement and lack of additional tips precludes the DIAGNOdent's use for Annual Type 2 dental exams. The manufacturer is implicit in stating that this device should be considered as part of a clinician's diagnostic armamentarium--the DIAGNOdent is not marketed as a stand-alone device for caries diagnosis. The **DIAGNOdent** is rated **Acceptable** for use by the federal dental services.