

# KaVo DIAGNOdent®



	Product	Description	KaVo Part No.
	DIAGNOdent pen	High Tech Laser Fluorescence Caries Detection Aid	1004.3400
	DIAGNOdent Display Unit 2191	Values are shown simultaneously on the DIAGNOdent pen and on the remote display	1004.8400
	DIAGNOdent Classic	Detect subgingival calculus for the treatment of periodontal disease. Sterilizable.	0574.0500
	DIAGNOdent Pen Perio Tips	Perio Tip for detection of subgingival calculus in periodontal pockets	1004.0370
	DIAGNOdent Classic Perio Tips	Perio Tip for detection of subgingival calculus in periodontal pockets	1004.1640
	DIAGNOdent Pen Tip	For occlusal surfaces	1002.6967
	DIAGNOdent Pen Barriers	250 pack	1007.1480
	DIAGNOdent Classic Barriers	250 pack	1007.1479
	DIAGNOdent Classic Tips	Type A Tip for occlusal surfaces	0574.1311
		Type B Tip for flat surfaces	0574.1321
	DIAGNOdent Classic Sheath	Covers the DIAGNOdent tip and assist in asepsis control	0574.1211

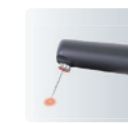
## DIAGNOdent® Models

### DIAGNOdent pen

#### Features

- Portable, handheld, pen-like device – moves easily from room to room
- Prospective usage:
  - Ideal for offices that already use the DIAGNOdent and would like to have the added mobility of the hand-held DIAGNOdent pen unit
  - Ideal for dentists to confirm the precise location of the lesion prior to restorative treatment following an initial exam by the hygienist
- Integrated loudspeaker with intensity control emits audible tone
- Battery operated for complete mobility (includes 1 x AA battery)
- Highly resistant sapphire tips
- Storage / sterilization cassette with 2 occlusal tips
- Unit display shows maximum (peak) and current (moment) readings
- Detachable / sterilizable grip sleeve and tips (275°F / 135°C)
- Calibration standard
- Can be used with or without protective barriers

Part No. 1004.3400



#### DIAGNOdent Pen Perio Tip

DIAGNOdent pen perio tip aids to detect subgingival calculus in periodontal pockets for the treatment of periodontal disease. Sterilizable.

Part No. 1004.0370



#### DIAGNOdent Pen Display Unit 2191

With the new DIAGNOdent pen display, KaVo has enhanced the patient experience in caries diagnosis. The remote display for DIAGNOdent pen uses infra-red signals, and the values are shown simultaneously on the DIAGNOdent pen and on the remote display. The display also serves as a holder for the DIAGNOdent pen when not in use. Pen sold separately.

Part No. 1004.8400



### DIAGNOdent Classic

#### Features

- Portable unit with fiber optic tubing and light, thin handpiece for easy access and comfort
- Prospective usage:
  - Ideal for use during new patient exams and regular hygiene appointments
  - Allows for patient interaction and education. During scanning, the patient can hold the unit while both the operator and patient can monitor the values on the unit display
- Integrated loudspeaker with intensity control emits audible tone
- Rechargeable batteries included
- Storage / sterilization cassette with 2 occlusal tips
- Unit display shows maximum (peak) and current (moment) readings
- Detachable / sterilizable handpiece sheath and tips (275°F / 135°C)
- Snap-in calibration standard
- Can be used with or without protective barriers

Part No. 0574.0500



#### DIAGNOdent Classic Perio Tip

DIAGNOdent Classic perio tip aids to detect subgingival calculus in periodontal pockets for the treatment of periodontal disease. Sterilizable.

Part No. 1004.1640



# KaVo DIAGNOdent

Treat with Confidence.



“DIAGNOdent is the one instrument a hygienist should never be without.”

- Jeanne Godett, RDHEF

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# Why KaVo DIAGNOdent®

## If you cannot detect the disease, how can you treat it?

Is it caries? Or is it a healthy tooth? Dentists often experience anxiety when attempting to diagnose the phenomenon known as hidden caries. A suspicious-looking tooth presents a treatment dilemma for dentists. Should the tooth be opened up? What if no caries is found? Should the tooth just be watched? Or does that give caries more time to destroy the tooth's structure?

In the case of hidden caries, traditional diagnostic methods all too frequently yield indeterminate results. If you can't detect a sub-surface lesion, how can you treat it?

## A Changing Caries Model

Due to fluoridation, caries has gone "underground." While helping to improve the oral health of many Americans, fluoridation has resulted in harder tooth enamel. Incipient caries lesions that once began on the tooth's surface have now migrated below the surface.

## Proven Clinical Results

Treatment decision require a higher degree of certainty. The DIAGNOdent laser caries detection aid removes the doubt from treatment decisions regarding hidden caries or questionable stained grooves. The device's ability to see into occlusal pits and fissures enables dentists to treat sub-surface caries lesions with confidence. The following case studies demonstrate the DIAGNOdent's diagnostic advantage over conventional methods:

**Q: Which tooth has caries?**

**A: They all do.**

# DIAGNOdent® Technology and Benefits

## What is DIAGNOdent and how does it work?

- DIAGNOdent uses laser technology to detect and quantify hidden or sub-surface caries by measuring laser fluorescence within the tooth structure.
- The device operates at a wavelength of 655 nm. At this specific wavelength, clean healthy tooth structure exhibits little or no fluorescence, resulting in very low scale readings on the display.
- Altered tooth substances and bacteria, including caries, will fluoresce. The DIAGNOdent will react with elevated scale readings on the display.
- An audio tone allows the operator to hear changes in the scale values. This enables the user to focus on the patient – not solely on the device.
- The DIAGNOdent is an extremely accurate, reliable and non-invasive method to aid in caries detection. The device has been successfully used by more than 20,000 dental professionals in the United States and is integrated into the curriculum by a growing number of dental schools.



Generally, conventional hand instruments may not be used to probe within drop-shaped fissures.



The DIAGNOdent pen offers the advantage of measuring fluorescence deep within the fissure pattern, since LASER light easily penetrates the enamel and is reflected by even the smallest lesion. Measurement is indicated with an acoustic signal and numerical value.

## DIAGNOdent offers the following benefits to you, your hygienist and your patients:

**Accurate** – Up to 90% accurate in aiding the detection of lesions not detectable with an explorer or bitewing X-rays.

**Conservative** – Prevents "exploratory" excavation or under-treatment of suspect teeth.

**Quantifiable** – Reliable measurement allows objective monitoring of caries activity over time.

**Confidence Builder** – Allows dentists and hygienists to treat questionable sites and sub-surface caries with confidence.

**Empowering** – Allows hygienists to educate patients on caries disease process.

**Marketing Tool** – High patient acceptance, great for marketing your practice and treatment philosophies. Interactivity engages patients in examination process.

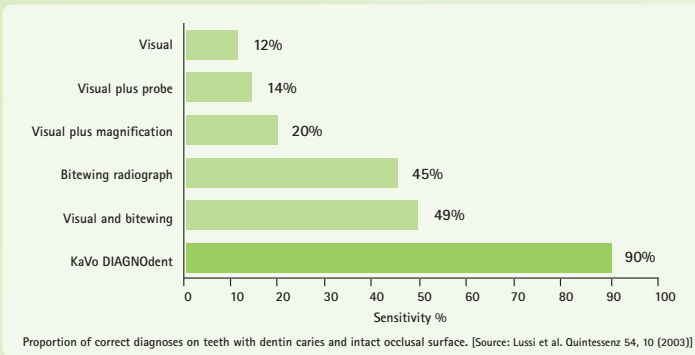
**Easy to Use** – Compact, portable device with user-friendly design.

**Safe** – Uses light energy – no X-ray exposure. Poses no danger to staff and patients. Painless, non-invasive examination for patients.



# Treat With Confidence

The DIAGNOdent is a diagnostic device that aids the dentist in making treatment decisions with confidence. Unlike traditional diagnostic methods, DIAGNOdent is an extremely accurate and reliable adjunct for the detection of sub-surface caries. It removes the guesswork that accompanies many treatment decisions regarding questionable areas, such as stained or discolored grooves.

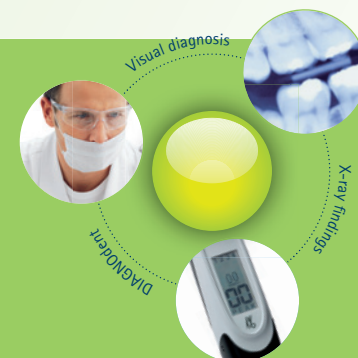


Using only an explorer and bitewing X-rays, a dentist is poorly equipped to detect incipient caries lesions.

With an explorer, it is virtually impossible to probe drop-shaped fissures, looking for a "stick". Bitewing X-rays also have limitations as a diagnostic tool when confronted with the elusiveness of hidden caries. While bitewing X-rays can identify larger areas of decay, small sub-surface caries lesions are rarely detected.

“With up to 90% reliability, DIAGNOdent Pen technology measures carious lesions that were not detectable with x-rays or a probe.”

– Mark E. Hyman DDS, Greensboro, NC USA



## KaVo Hygiene 360° Everything Easy. Everything KaVo.



## Practical example:

**1 Professional teeth cleaning**

**Removal of all hard and soft accumulations:** Calculus removal with the SONICflex, manual instruments, PROPHYflex air polishing device with PROPHYpearls, and PROPHYwiz polishing handpiece.

**2 Examination with the DIAGNOdent® pen**

Healthy Tooth Tissue	Early Demineralization	Strong demineralization
Measured value: 0 – 12	Measured value: 13 – 24	Measured value: >25
Measured value: 0 – 7	Measured value: 8 – 15	Measured value: >16
<b>Proximal</b>	<b>Proximal</b>	<b>Proximal</b>

**3 Initial diagnosis**

No findings	Early carious lesion	Carious lesion
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**4 Measures**

<b>Standard hygiene measures</b>	<b>Monitoring, intensive hygiene measures, local antibacterial measures</b>	<b>Minimally-invasive treatment, X-rays, caries bacteria test, saliva test</b>
Low risk		High-risk
Fluoride toothpaste, etc.	e.g. fluoridation, remineralization, chlorhexidine	Remineralization, RONDOflex, SONICflex micro, composite filling materials and intensive hygiene measures

# Practice Growth Opportunities

The DIAGNOdent is a valuable detection aid that can provide immediate return on investment in various ways. It will not only allow you to provide a higher level of patient care, but also enable the practice to detect more caries lesions than if only using traditional methods. Early detection offers an improved means of treating disease. With DIAGNOdent's diagnostic aid capabilities, caries can be accurately identified, monitored and / or treated earlier than ever before. Conservatively speaking, practices that purchase DIAGNOdent will usually show a positive return on investment within the first month of proper use of the device.

The use of the DIAGNOdent also enhances the office's image as a high-tech practice. That perception will lead patients to refer their friends and / or family to your practice. Patient referrals are the best form of marketing and usually signify a strong and growing practice.

## DIAGNOdent benefits to hygiene department:

- Enable practices to monitor caries over time
- Empowers your team in the diagnosis process as an aid in detection
- Confirms healthy tooth structure before sealants are placed
- Quantifies decay, giving patients ownership of their oral health condition
- Serves as a patient education tool
- Increases hygiene production
- Removes doubt by aiding in the diagnosis of hidden caries
- Creates "wow" customer service experience that can result in more patient referral

**Offices using DIAGNOdent typically receive the following payback period:**

Cost of DIAGNOdent . . . . . \$2,389

Number of Hygienists. . . . . 2

Average number of hidden caries lesions identified per week (per Hygienist) . . . . . 4

National average cost of a one surface composite filling. . . . . \$170

Additional production (per week) . . . . . \$170 x 4 x 2 = \$1,360

In this case, the DIAGNOdent has paid for itself in less than one month!  x  x  =