



# Announcing spectra™

**Caries revealed in a whole new light.**



*Actual image of examined tooth*

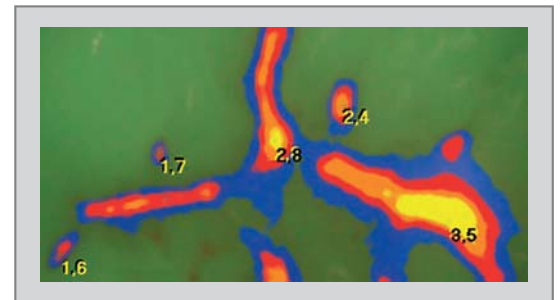
Early caries detection supports today's standard of care and the philosophy of "Teeth for a lifetime". Traditional detection methods like explorer, eyesight and even X-ray are limited. The use of digital caries detection technology in today's dental practice is important to maintain and provide the standard of care for patients.

## **Spectra is the first ergonomic, non-invasive, handheld digital imaging instrument that aids in the detection of caries.**

Spectra identifies decay causing bacteria based on a similar fluorescence principle which is also used in the detection of oral cancer. LED's project high-energy, blue light at a wavelength of 405 nanometers onto the tooth surface stimulating porphyrins (special metabolites of cariogenic bacteria) to fluoresce red while healthy enamel fluoresces green.

The image on the computer monitor shows active caries in red and sound tooth enamel in green. Visix™ imaging software will interpolate the captured image and highlight the carious lesions in different colors. Based on this, the doctor can further examine the identified area to observe or treat. Spectra allows you to monitor the progression of a treatment by saving the images in an electronic patient database.

Caries detection capability, improved patient communication, and precise documentation make Spectra an invaluable addition to your practice. Learn more about this remarkable innovation by visiting our website at [www.airtechniques.com](http://www.airtechniques.com).



*Software interpolated image of examined tooth defining the severity of potential caries on a scale from 0 to 5.*

**AIR  
TECHNIQUES  
INC.**

## Specifications

Part Number:	D4000
Dimensions (LxWxD):	8.6" x 0.9" x 1.2"
Connection Type:	USB
Current:	0.5 Amps
Weight:	2.1 oz

## Computer Requirements

CPU/Speed:	Pentium 4, 2 GHz or higher
Operating System:	Windows 2000, Windows XP Professional for an Intel 32-bit processor with Service Pack 2 and the KB 822603 update or later. DirectX 9 or later.
RAM:	256 MB
CD-ROM Drive:	24X or higher
Monitor:	SVGA 17" with 800 x 600 resolution or higher
Video Display Adapter:	16 MB video card supporting 800 x 600 pixels with 32-bit color
USB Port:	Must be USB 2.0 high speed, high power port
Keyboard/Mouse:	Standard
Printer:	Optional



Part Number	Description	Retail
D4000	Spectra Caries Detection Aid with Free Software*	\$4,995.00
D4140	10 mm Positioning Spacer (Box of 25); Blocks both LED and stray ambient light. Positions Spectra at the correct height above the tooth surface.	\$ 125.00
D4125	Camera Sheaths (Box of 100)	\$ 70.00
D4120	Camera Sheaths (Box of 500)	\$ 350.00
D4170	Spectra Chairside Handpiece Holder (fits any handpiece holder)	\$ 50.00
D4040	Spectra Support Package (Includes training, annual software support, and software updates)	\$ 495.00
D4020	10' Spectra USB Umbilical	\$ 75.00
D4060	Spectra Handpiece Only	\$4,725.00

\* Includes Spectra Handpiece, Visix for Spectra Software (5 users), 50 Camera Sheaths, 10 Positioning Spacers, 1 USB Umbilical, and 1 Chairside Handpiece Holder

NOTE: Spectra is currently under 510k FDA review. Spectra is an investigational device and limited by Federal law to investigational use.



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