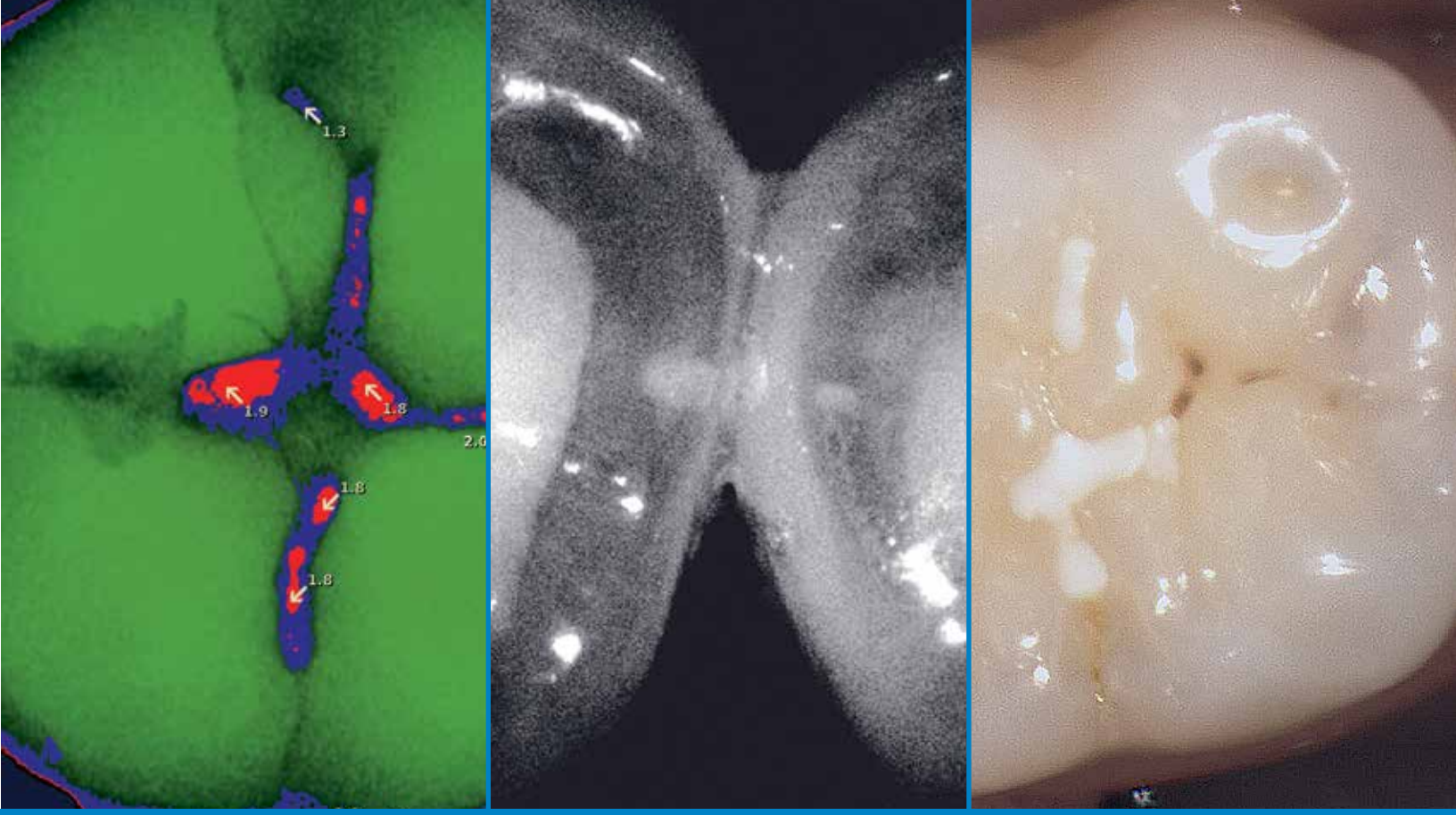


TRITON HD

CAM▸X® Triton HD

INTERCHANGEABLE HEAD SYSTEM.
Easily and quickly change between
caries diagnosis and intraoral imaging.

AIR TECHNIQUES equipped for life®

CAM▸X® Triton HD

Whether its patient education, caries detection or accurate clinical documentation, camera systems from Air Techniques provide the ultimate in flexibility for today's dental practices.

HD quality images, and caries detection combined in one easy-to-use camera.

- The Intelligent Interchangeable head system assists in the diagnosis and early detection of caries. Cam-X Triton HD quickly and easily changes between caries and plaque detection and intraoral imaging.
- The Cam-X Triton HD delivers vivid, sharp images with one click autofocus.
- Simplify clinical procedures and case acceptance.

Use one device with one workflow to increase case acceptance and patient education.

Slim, Ergonomic Design

Sleek Modern Design

- Slim rounded head provides easy access to even the most challenging posterior areas.

Simple Functionality

- One Push autofocus button instantly brings image into focus from any distance.

Versatile Imaging Capabilities

- Variable focal distance enables you to capture images from full face to macro with one device.

Images in Real HD Quality

- View and capture clinical images in 1280x1024 HD resolution.

Automatic Activation/ Deactivation

- Motion sensor switches the camera on and off, ensuring efficient use.

1 Autofocus
2 Capture Buttons

Capture on Release

- Unique image acquisition technology insures consistently clear and brilliant images.

Ergonomic Image Capture

- Capture buttons are located on the top and bottom of CamX Triton HD - no need to change your grip.

Durable Design

- The interchangeable heads feature scratch-resistant lenses and are easily switched between camera and caries detection.

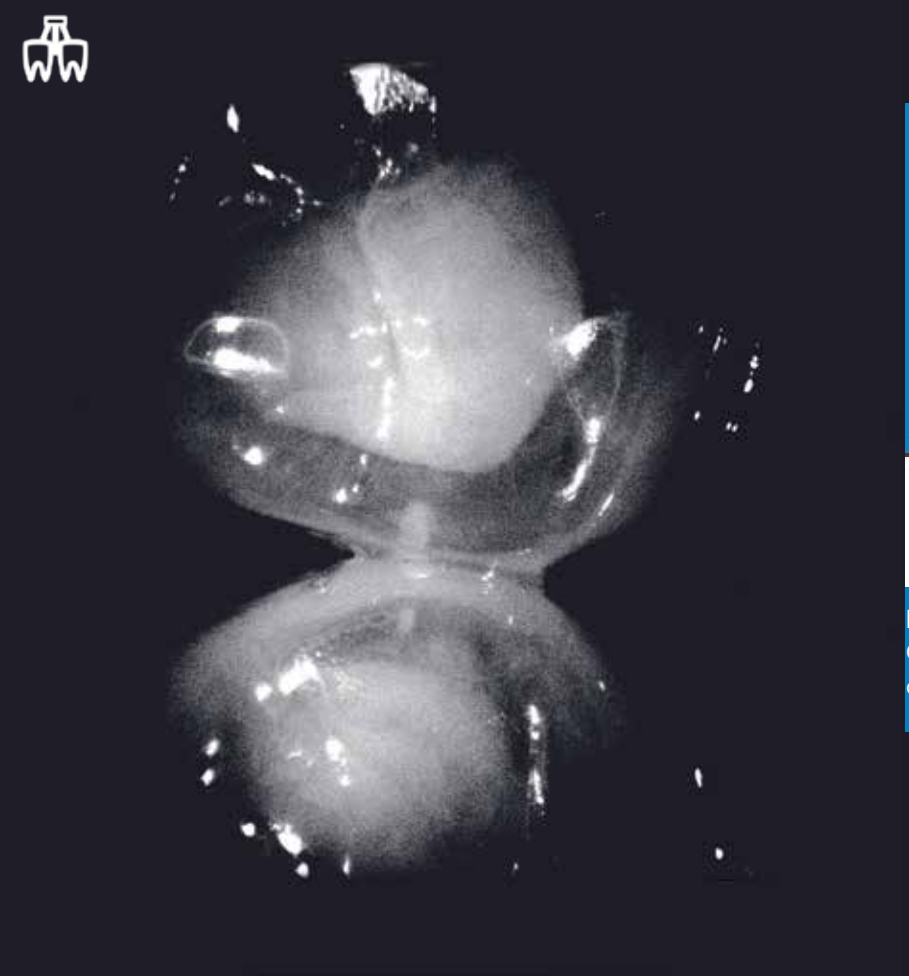
Ergonomically Designed Interchangeable Head System

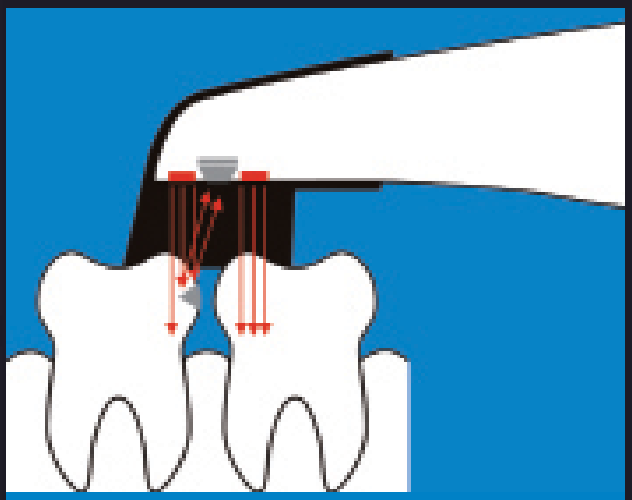
The HD resolution and the diagnostic flexibility of the CamX Triton HD camera system brings a new level of diagnosis, case acceptance and patient education to your fingertips. The CamX Triton HD Liquid Lens Technology Autofocus delivers HD quality images with unparalleled clarity and accuracy. The small head design allows access to even the most hard to reach anatomical structures.

Intraoral Image (Fig. 1)

Macro Image (Fig. 2)

Extraoral *Image* (Fig. 3)



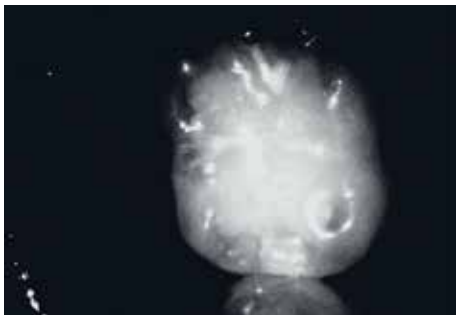


Infrared light is used to find interproximal caries. Caries regions reflect infrared light making them appear opaque in the image.

Reliable Detection of Interproximal Caries with the Proxi Interchangeable Head

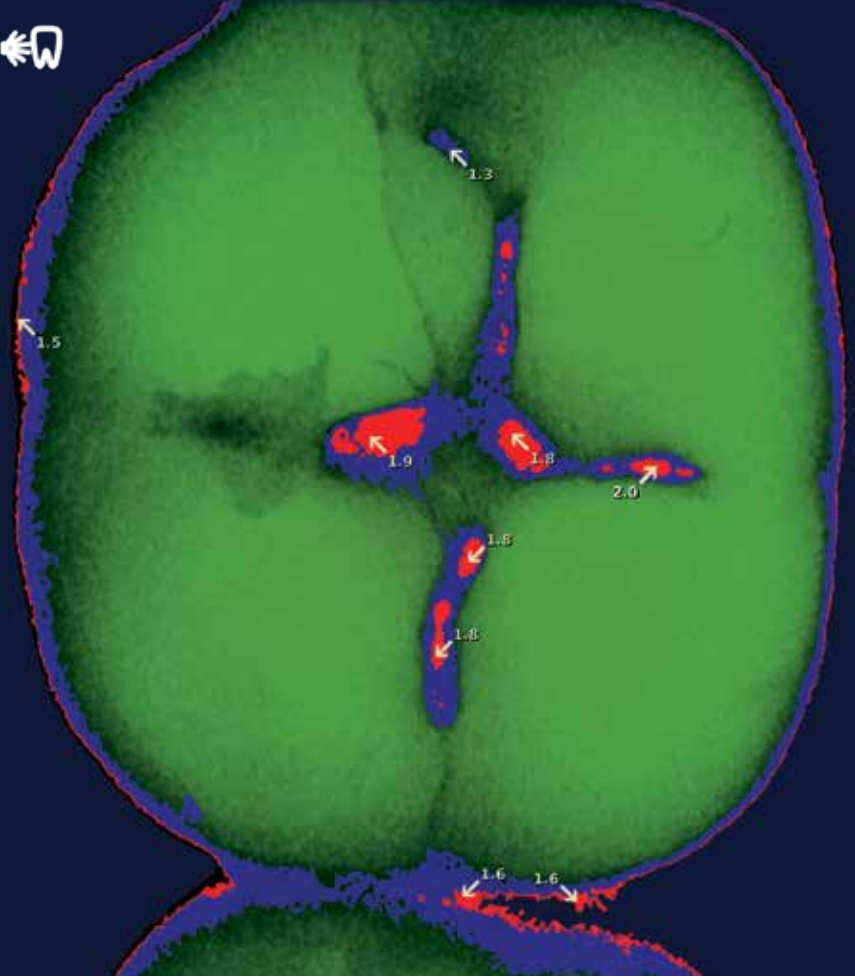
The Proxi interchangeable head with two infrared LEDs and the optical receiver is placed together with the spacer on the occlusal surface of the teeth. In the process, two adjacent teeth are illuminated by the LEDs. Healthy tooth enamel is permeable to light in the infrared spectrum and appears dark in the image (transparent). By contrast, caries lesions are white and opaque due to altered material structure because the infrared wavelength is refracted differently by the lesions and is largely reflected.
In the initial clinical situation (Fig. 1) the caries is difficult to detect either with the naked eye or with a conventional camera image. However, if the Proxi interchangeable head is used a mesial caries lesion can be seen on tooth 36 (Fig. 2). The image taken after initial preparation of the site confirms this; the carious region can also be seen with the naked eye (Fig. 3).

Intraoral Image (Fig. 1)



Proxi Image (Fig. 2)

Intraoperative image (Fig. 3)



VISUALIZATION OF CARIOUS AREAS

A direct comparison between an image taken with the Air Techniques' caries filter and an intraoral image helps patients to understand the treatment recommendation and for the practitioner to document progress before, during and after treatment. In the image created with the Spectra interchangeable head (left) the caries findings can be reliably identified in greater detail. In this example, the early-stage caries (blue) and deep enamel caries (red) are easy to spot.

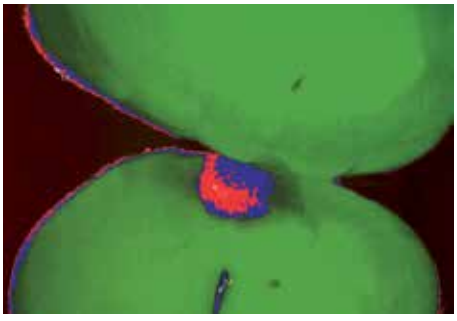
Healthy tooth enamel	Incipient enamel caries	Deep enamel caries	Dentin caries	Deep dentin caries

Caries Detection with Spectra Interchangeable Head

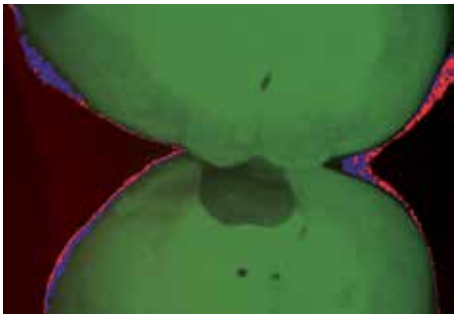
During the preparation, the Spectra interchangeable head of the CamX Triton HD can also be used to reliably demonstrate the progress of caries removal.

- The intraoral image shown here (Fig. 1) reveals the initial clinical observation: discoloration is evident on the tooth.
- The subsequent image (Fig. 2) was taken for confirmation immediately after the site was prepared. It shows the image taken with the Spectra interchangeable head, which makes it easier to distinguish between the caries on tooth 15 (red) and the healthy tooth enamel (green).
- The intraoperative image seen in Fig. 3 confirms that all caries have been removed.

Intraoral Image (Fig. 1)



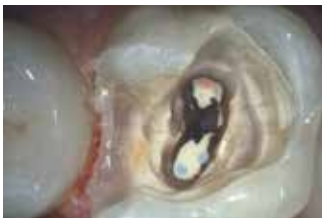
Monitoring Image (Fig. 2)



Intraoperative Check (Fig. 3)

Cam - Intraoral, Extraoral and Macro Images in Real HD Quality






CAM

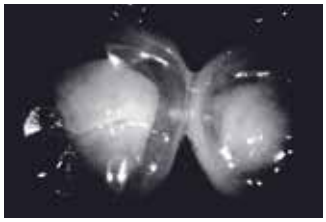
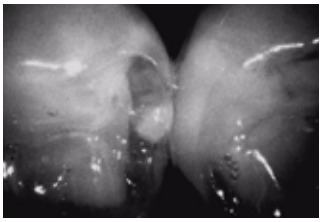
Maximum image quality for demanding requirements – with real HD resolution the camera system ensures pin-sharp HD images, even on large monitors.

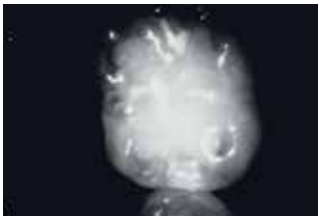
Thanks to the new autofocus, images are created quickly and with ease, whether intraoral, extraoral or macro images. Two LEDs ensure optimum and uniform illumination for excellent image quality.

Proxi - Gentle and Early Detection of Interproximal Caries

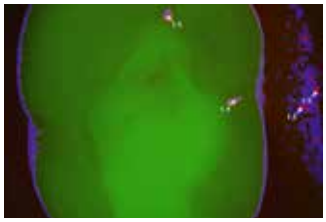
PROXI

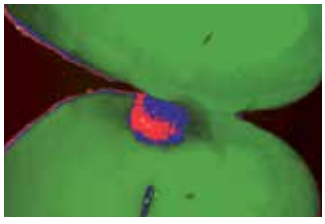
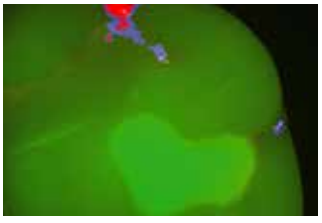
The Proxi Interchangeable head is a reliable and easy diagnostic aid in the early detection and diagnosis of interproximal caries. CamX Triton HD with Proxi Head is a powerful diagnostic tool for interproximal caries detection without the use of X-Ray radiation - especially useful in pediatric and pregnant patients. The HD Images and videos can be saved directly into the patient's digital chart for long term monitoring.



Spectra - Reliably Identify Caries and Plaque



SPECTRA

See caries early and recommend a treatment plan today. Spectra utilizes state of the art technology to instantly display and analyze caries in an easy to read color and numerical coded onscreen display. The violet light emitted by Spectra stimulates the metabolic products in caries producing bacteria which will show as red in the CamX viewing software. Healthy enamel shows as green, and can be easily distinguished from caries. Easily and immediately diagnose caries with no radiation.

Plaque Visualization During Hygiene Appointments

The CamX Spectra can be used as an invaluable patient education tool to visually illustrate to patients where more thorough brushing or flossing is required. With Spectra technology there is no need for dental dye tablets or rinsing solutions.

airtechniques.com

Specifications

Part Number	J2500 CamX Triton HD Cam & Spectra J2600 CamX Triton HD Cam Only J2700 CamX Triton HD Cam, Spectra & Proxi J2900 CamX Triton HD Cam & Proxi	**Cable length**	8.2 ft. (optional extension up-to 18 ft. via active holder with USB hub)
Connections	USB 2.0 (USB 3.0 compatible)	**Power Supply**	USB (5V)
Multi-user application	Plug and play	**Sensor**	High performance CMOS Sensor
Activation	Via buttons located on top and bottom of handpiece	**Driver**	Standard Windows drivers, NO additional drivers needed
Handpiece weight	2.5 oz	**Resolution**	1280 pixels (H) c 1024 pixels (V)
Handpiece length	7.9 inches	**Illumination**	2 LEDs each for Spectra (405 nm, violet) 2 Bright white LEDs for Cam 2 Infrared LEDs for Proxi
		Optical system	Multiple lenses with protective glass

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