

SOPRUCARE

THE REVELATION



SOPRO

The SOPROCARE concept was developed to assist the dental professional during prophylaxis and periodontal treatment in the dental office.

The camera utilizes unique fluorescence technology (SOPRO Patent¹ - 2003) to illuminate dental tissue to reveal caries in CARIO mode, as well as new and old dental plaque in PERIO mode.

In addition, SOPROCARE is the first product on the market to reveal gingival inflammation.

In DAYLIGHT mode, SOPROCARE can also be used as a camera, providing all of the necessary tools to perform a complete and time efficient oral examination.

The dental professional can now achieve complete prophylactic treatment with one device.

 **The Revelation**

Education Prevention





State-of-the-art photonics technologies

Benefits of autofluorescence

SOPROCARE illuminates dental tissue with a specific wavelength of light between 440 and 680 nm.

The exposed tissue absorbs the energy and reflects it in fluorescent form.

Images obtained through fluorescence analysis are superimposed over the anatomic images, creating an easy to interpret and visible representation of the tissue's condition, which are otherwise invisible under white light.

Benefits of selective chromatic amplification

Utilizing the absorption properties of the 'blue light', the selective chromatic amplification differentiates the color of the tissue.

The subtle hues of red indicate gingival inflammation and are now clearly revealed by SOPROCARE.

All of the images are definitive, qualitative and easy to interpret – just follow the colors!



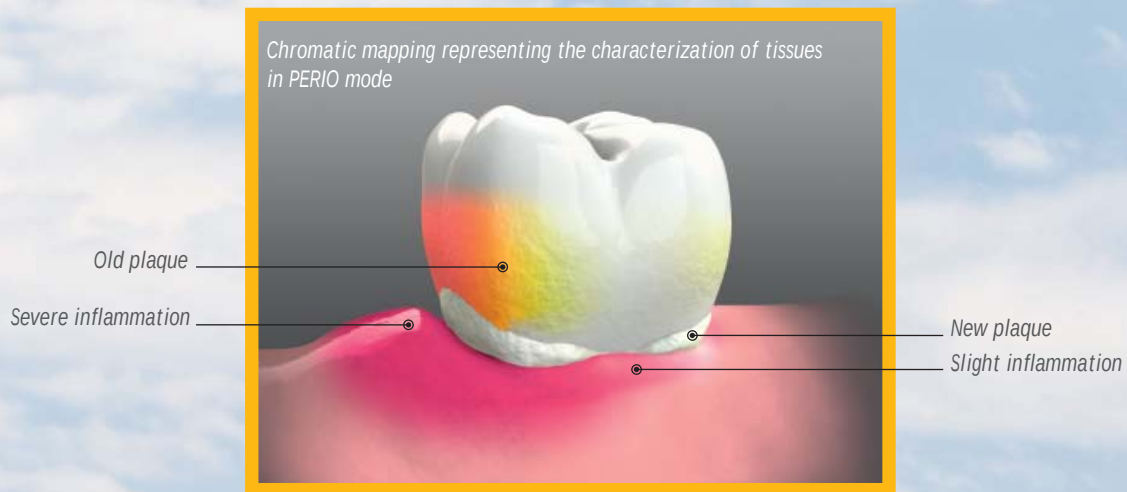
Confidence

Health

PERIO mode

● Highlight with a precise and reliable dental mapping

The wavelength emitted by the LED lights of SOPROCARE highlights, for the dental professional, the different tissues represented by a chromatic mapping.



Gingival inflammation can range from hues of pink all of the way to deep magenta. New plaque is highlighted by its white and grainy characteristics and old plaque is revealed as shades of yellow and orange.

● New approach to patient communication

SOPROCARE is a camera that is used daily as a communication tool in the dental practice. PERIO mode makes it all the more effective and indispensable by illuminating new plaque, old plaque and gingival inflammation.

Early identification of these conditions will result in early intervention and minimally invasive treatment, while also educating patients and justify the treatment planning.



Invisible plaque and inflammation in DAYLIGHT mode



Plaque and inflammation in PERIO mode

● Improve treatment planning

SOPROCARE provides effective and efficient treatment planning by saving the images directly into the patient chart. This allows the dental professional to easily compare images from past patient visits and provides the ability to control the lesion progress.



Initial situation in DAYLIGHT mode



Initial situation in PERIO mode



After treatment in PERIO mode



Two weeks after treatment in PERIO mode

SOPROCARE is not only a diagnostic tool for the dental professional, but also an education tool for patients.

● Preventive dentistry

The PERIO mode reveals the pathologies, and more importantly allows the dental professional to track any increasing anomalies.

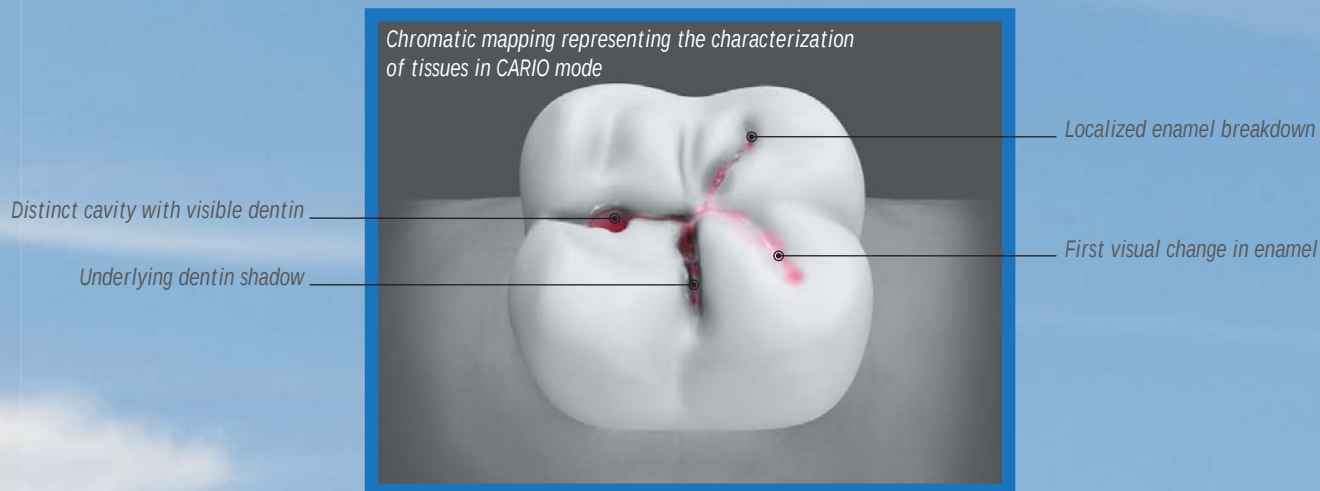
SOPROCARE guides the dental professional with a more contemporary approach to minimally invasive and preventive treatment, maintaining the patient's health and longevity of his or her natural dentition.



CARIO mode

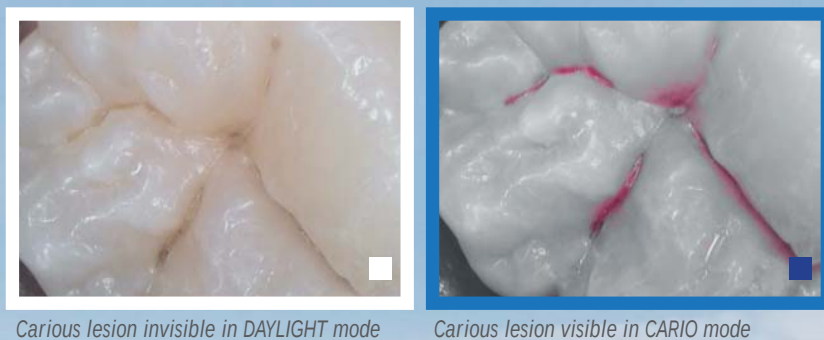
● Fluorescence for everyone

Enamo-dental caries are clearly revealed by the bright red color in the CARIO mode. Other surrounding tissue is displayed in black and white, thus drawing the focus only to the carious lesion.



● Involve effectively the patient

A carious lesion is clearly displayed by the color red, this allows the dental professional to effectively communicate treatment plans and clinical procedures to the patient, thus improving case acceptance and office productivity.



● Improve the practice

By improving the diagnosis and optimizing the examination, the office becomes more productive and efficient.



DAYLIGHT mode

● Enjoy the SOPRO image quality

Enjoy the superior image quality you have come to expect from SOPRO, the worldwide leader in intraoral cameras.

● Intrude grooves thanks to the Macrovision

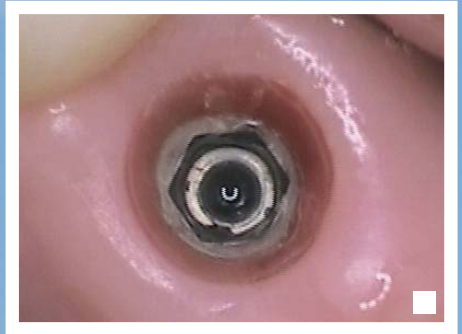
Macrovision provides magnification of up to 100 times, revealing details otherwise not visible to the naked eye. This allows for close monitoring of micro fractures and their development.



Broken amalgam in DAYLIGHT mode



Caries in amalgam border in DAYLIGHT mode



Implant in DAYLIGHT mode

● A sharp point of view

A preset focus ring replaces the inconvenience of autofocus and provides sharp images with no delay, regardless of the object or the distance.

With one click, easily go from focal depths of Extra-oral, Intra-oral, Tooth, and finally Macrovision. These pre-set focal depths will aid in patient consultation, treatment, and follow-up.



SOPRO CARE

3 modes for 3 needs

Specifications

SOPROCARE

- High sensitivity 1/4" CCD
- Resolution: (752x582) PAL; (768x494) NTSC
- Lighting: 7 LED (4 white; 3 blue)
- Adjustments: 4 pre-set positions (Extra-oral, Intra-oral, Tooth, Macro)
- Freeze frame with SoproTouch or pedal (option)
- Angle of view: 70°
- Cable length: 2.5 m
- Dimensions of the handpiece in mm: L. 200 x W. 30 x H. 24
- Dimensions of the useful part: L. 13mm x H. 8mm
- Weight: 78g



Mac



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Dock M-Video

- Storage of one or four images
- Power supply: 115 V ~ 60 Hz & 230 V ~ 50 Hz
- Power consumption: 9 VA
- One PAL or NTSC video output
- One PAL or NTSC S-video output
- Dimensions of the dock in mm: L. 145 x W. 130 x H. 35
- Weight of the dock: 245g

Dock M-USB2

- Storage of one or four images
- Power supply: 115 V ~ 60 Hz & 230 V ~ 50 Hz
- Power consumption: 9 VA
- One PAL or NTSC video output
- One PAL or NTSC S-video output
- One digital USB 2.0 output
- Dimensions of the dock in mm: L. 145 x W. 130 x H. 35
- Weight of the dock: 245g

Dock USB2

- One digital USB 2.0 output
- Dimensions of the dock in mm: L. 100 x W. 46 x H. 20
- Weight of the dock: 165g

Dock MU-Video

- Storage of one or four images
- Power supply: 24 V ~ ; 50 Hz - 60 Hz
- Power consumption: 10 VA
- One PAL or NTSC video output
- One PAL or NTSC S-video output
- Dimensions of the dock in mm: L. 100 x W. 72 x H. 36
- Weight of the dock: 190g

Dock MU-USB2

- Storage of one or four images
- Power supply: 24 V ~ ; 50 Hz - 60 Hz
- Power consumption: 10 VA
- One PAL or NTSC video output
- One PAL or NTSC S-video output
- One digital USB 2.0 output
- Dimensions of the dock in mm: L. 100 x W. 72 x H. 36
- Weight of the dock: 190g

Dock U-USB2

- Power supply: 24 V ~ ; 50 Hz - 60 Hz
- Power consumption: 15 VA
- One digital USB 2.0 output
- Dimensions of the dock in mm: L. 50 x W. 75 x H. 36
- Weight of the dock: 76g

Windows® minimum configuration

Operating system: Windows®XP Pro SP3
 Processor: Intel® Pentium IV - 1.3 GHz
 RAM: 512 MB
 Hard disk: 250 GB
 USB ports: 2 USB2.0 Hi-Speed ports
 Graphic card: 32 MB unshared memory compatible DirectX 9.
 USB Chipset: Intel or NEC® / RENESAS®
 Screen resolution: 1024 x 768

Windows® recommended configuration

Operating system: Windows® 7 Pro SP1
 Processor: Intel® Core 2
 RAM: 2 Go
 Hard disk: 320 Go or more
 USB ports: 4 USB2.0 Hi-Speed ports
 Graphic card: Chipset Nvidia® or ATI® / 512 MB unshared memory compatible DirectX 9.
 USB Chipset: Intel or NEC® / RENESAS®
 Screen resolution: 1280 x 1024 or more

MAC® minimum configuration

Computer: MAC® Book Pro 13.3" or iMac® 21.5"
 Operating system: MAC® OS X 10.6 Snow Leopard
 Processor: Intel® Core 2
 RAM: 2 GB

MAC® recommended configuration

Computer: iMac® 27"
 Operating system: MAC® OS X 10.7 Lion
 Processor: Intel® Core i7
 RAM: 4 GB

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Patent 1: Ref. Patent FR2858205 (A1), US2006227216 (A1), US7613505 (B2), Method and device for the detection and characterization of biological tissue.