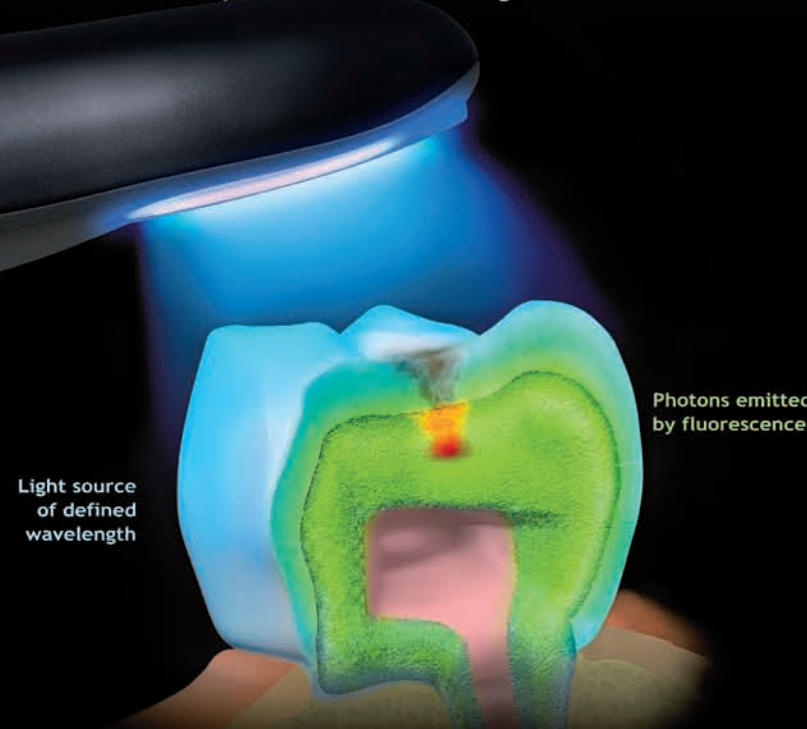


A new **era**

Development of a patient technology based on the principle of fluorescence

Over the past five years *SOPRO*, the world leader in dental video imaging, has applied all its technical expertise in conjunction with scientific and clinical researchers to develop a patented technology based on the principle of fluorescence. The result of this effort is a revolutionary new device called *SOPROLIFE*, which is used for the diagnosis and treatment of caries.



Definition of Fluorescence

A fluorescent molecule (fluorophor or fluorchrom) has the capacity to absorb luminous energy (light of excitation) and to emit it rapidly as fluorescent light. In dentistry, the tooth is illuminated by a specific wavelength of light and its tissues are characterized by auto fluorescence.

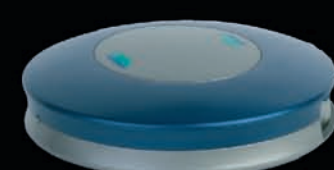
See the **invisible**

Dentistry is changed forever... *SOPROLIFE* allows you to see what was once invisible to the naked eye. *SOPROLIFE* offers you the ability to detect tooth decay at different stages of its development allowing you to determine the most effective course of treatment.

The auto fluorescence technology in *SOPROLIFE* allows you to detect occlusal or interproximal decay - even in its earliest stages - which can often be missed by x-rays.

During treatment, *SOPROLIFE* allows you to clearly differentiate healthy tissue from infected tissue in order to excavate the affected areas.

SOPROLIFE
Light Induced Fluorescence Evaluator
Technical Specifications



DOCK M-USB

StorageOne or four images
Power supply115v - 60Hz and 230V - 50Hz
Power consumption9VA
One video outputPAL or NTSC
One S-video outputPAL or NTSC
One outputUSB2.0
Dimensions of the Dock:
Height36mm / 1.41"
Width130 mm / 5.1"
Length145 mm / 5.7"
Weight245g / 8.64oz

SOPROLIFE

High sensitivity 1/4" CCD
Resolution(752 x 582) PAL; (768 x 494) NTSC
Lighting: White mode:4 LED
Blue mode:4 LED
Adjustments:4 preset positions
.....(Extra-oral, Intra-oral, LIFE, Macro)
Freeze Frame with SoproTouch or pedal (option)
Angle of view70
Cable Length2.5m / 8.2'
Dimensions of the handpiece:
Height200mm / 7.87"
Diameter30mm / 1.18"
Weight78g / 2.75oz
Non-inverted image



Dock USB2

One outputUSB2.0
Dimensions of the Dock:
Height20.5mm / .8"
Width47mm / 1.85"
Length100mm / 3.93"
Weight86g / 3.03 oz
Cable Length3.65m / 12'



Dock MU-USB

StorageOne or four images
Power supply24v - ; 50Hz - 60Hz
Power consumption16VA
One video outputPAL or NTSC
One S-video outputPAL or NTSC
One outputUSB2.0
Dimensions of the Dock:
Height36mm / 1.41"
Width72 mm / 2.83"
Length100 mm / 3.93"
Weight180g / 6.34oz



Dock U-USB

StorageComputer software dependent
Power supply24V - ; 50Hz - 60Hz
Power consumption10 VA
One outputUSB 2.0
Dimensions of the Dock:
Height36 mm / 1.41"
Width50 mm / 1.96"
Length75 mm / 2.95"
Weight76 g / 2.68oz

NEW!



SOPRO 717

High sensitivity 1/4" CCD
Resolution768 x 494 NTSC
Definition470 lines
Sensitivity2 lux
Cable length8' (16' optional)
Handpiece size0.9" x 1.1" x 7.8" (HWL)
Size of distal part0.31" x 0.51" (HW)
Weight2.7oz
Lighting8 New Generation LEDs
AdjustmentThree preselected positions:
.....(Extraoral, Intraoral and Macro)
Non-inverted image

(Also available)



SOPRO 617

High sensitivity 1/4" CCD
Resolution768 x 494
Definition470 lines
Sensitivity2 lux
Cable length8' (16' optional)
Handpiece size0.9" x 1.1" x 8.1" (HWL)
Size of distal part0.42" x 0.64" (HW)
Weight1.94 oz
Lighting8 New Generation LEDs
AdjustmentAuto-focus
Non-inverted image

FO223 / April 1, 2011

SOPROLIFE

Light Induced Fluorescence Evaluator



See what was once invisible...



Compatible with:



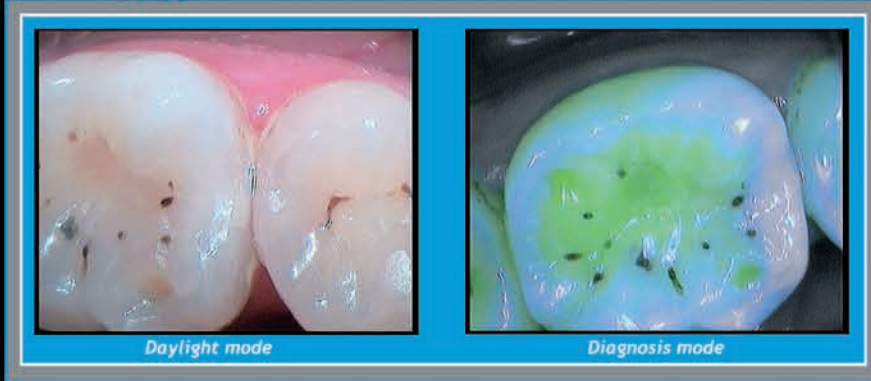
64-bit & 32-bit

Mac OS® & Apple®



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diagnosis aid mode



See the invisible

- SOPROLIFE provides better detection of decay than any other device
- SOPROLIFE detects occlusal and interproximal carious lesions often missed by other devices

Use SOPROLIFE to enhance your vision during clinical examination
 With SOPROLIFE you can gain greater accuracy in identifying, evaluating and determining the location of a carious lesion with image magnification of 30 to 100x. Variations in the amelodentinal architecture results in visible color changes to the tooth's image, which can be interpreted by the LIFE-D-T concept. (For more information, see the SOPROLIFE Clinical Guide)

Time-saving diagnosis
 The speed of diagnosis and proposing a treatment protocol is greatly increased.

Less X-ray exposure for your patients
 The fluorescent imagery of SOPROLIFE surpasses the limits of digital radiology in the detection of lesions in hard tissues.

treatment aid mode



The end of blind treatments
Treatment aid mode is more specifically oriented on the dentinal structures whereas *Diagnostic mode* focuses more on the enamel structure. The fluorescent images produced in *Treatment aid mode* clearly show the differences between healthy and diseased tissue, both pre and post operatively.

Improve your clinical performance with ease and eliminate the guess work

- Clear differentiation of diseased versus healthy tissue will allow you to make precise preparations that are less invasive and more complete prior to filling. For prosthetic treatments, the quality of the tissues can be assured before the final sealing of the restorations. In addition,
- The history of a lesion can be documented and changes in its development can guide your treatment
- The extent of exeresis can be monitored to avoid pulp damage, avoiding unnecessary additional procedures
- The permanence of the treatments can be assured, preserving your patients' teeth
- Assure the longevity of prosthetic treatments, promoting patient comfort and confidence

SOPROLIFE

Light Induced Fluorescence Evaluator

daylight aid mode



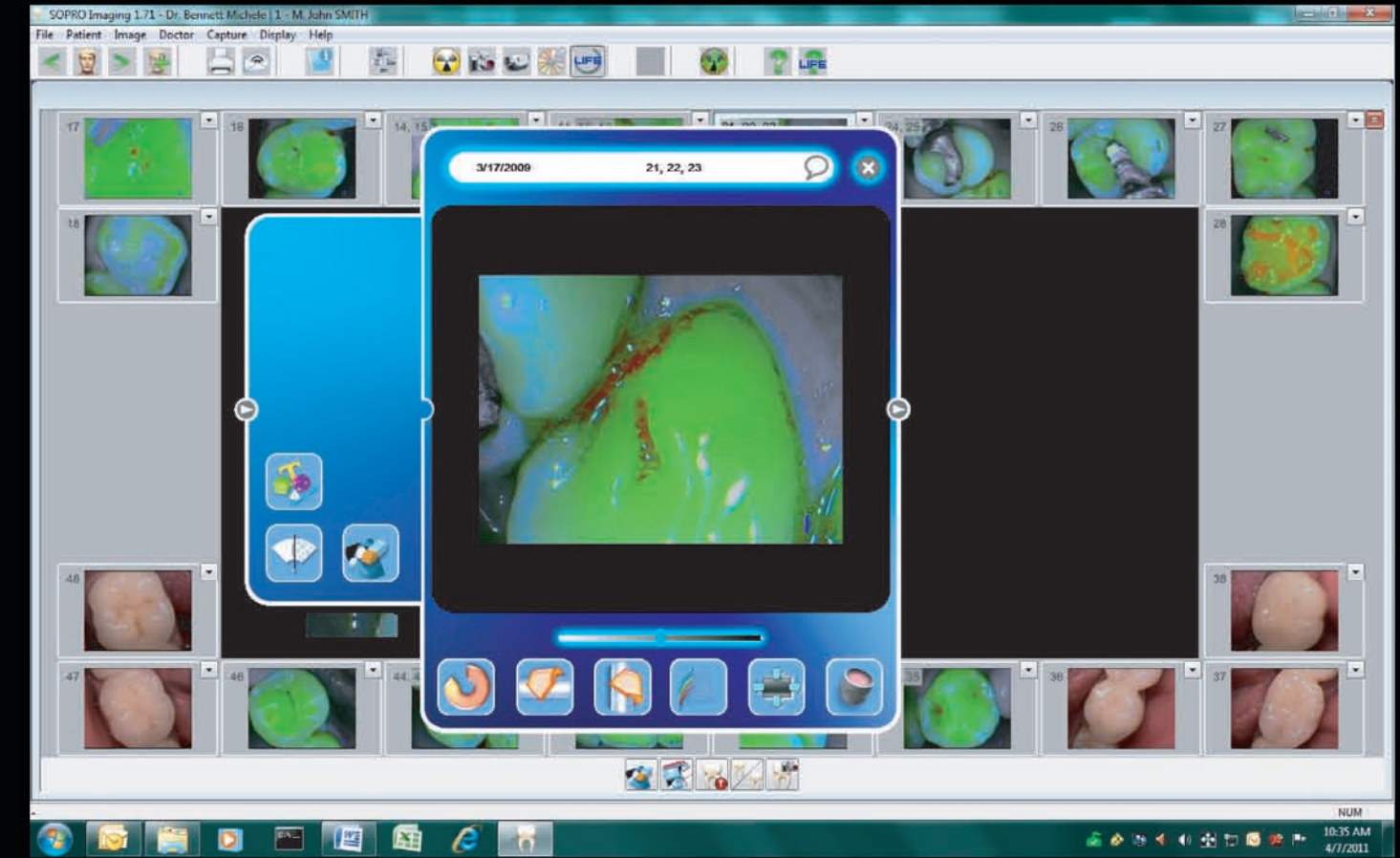
SOPROLIFE is the only fluorescence camera in the world offering two different types of vision

The *Daylight aid mode* captures images under white light, providing a close-to-daylight comparison and contrast perspective for the images taken under blue light. This allows the specific observation of the tissues surrounding the tooth (periodontium) where the blue light focuses on the tooth itself. Switching modes is fast and easy, enhancing patient communication by allowing both structures to be instantly displayed.

- Ergonomics**
 SOPROLIFE easily adapts into any dental practice thanks to its versatility, sleek profile and ease of use.
- From portrait to macro vision**
 With the large depth of field that SOPROLIFE offers, no matter what position is selected, the image is clear immediately!
- Unmatched image quality**
 Developed around a 1/4" CCD and high quality electronics, this highly sophisticated optical unit allows SOPROLIFE to provide unsurpassed image quality in every mode in both white and blue light!

Operatory protocol

1. Preoperative observation and analysis in Diagnosis mode
2. Diagnosis and therapeutic decision
3. Treatment protocol
4. Preoperative observation and analysis of the lesion in Treatment mode
5. Restoration of the affected areas



SOPRO Imaging, a comprehensive imaging management software application, is shipped with each SOPROLIFE.

SOPROLIFE is compatible with all Sopro docking stations

Dock USB2

Portable, single cable connection solution to a USB port on an operatory PC. The Sopro LIFE camera hand piece connects onto the cable via a simple quick-connect.

Dock M-USB & Dock M-Video

These table top models connect to either an operatory PC, a video monitor, or both depending on the model chosen. The M-USB has USB2, s-video, and composite interfaces where the M-Video is limited to s-video and composite connections. Both are equipped with a memory buffer and can display up to 4 images.

Dock U-USB

This compact and inexpensive unit is designed for chair and delivery unit integration and provides USB connectivity only. Also powered by the chair, it does not have memory nor analog ports but otherwise provides full functionality.

Dock MU-USB & Dock MU-Video

These units share all the features of the table top models but are designed to be integrated into a dental chair or delivery unit. Enabled by chair's power source, they will connect to either USB ports or to an s-video or composite port on a display monitor or both, depending on the model.