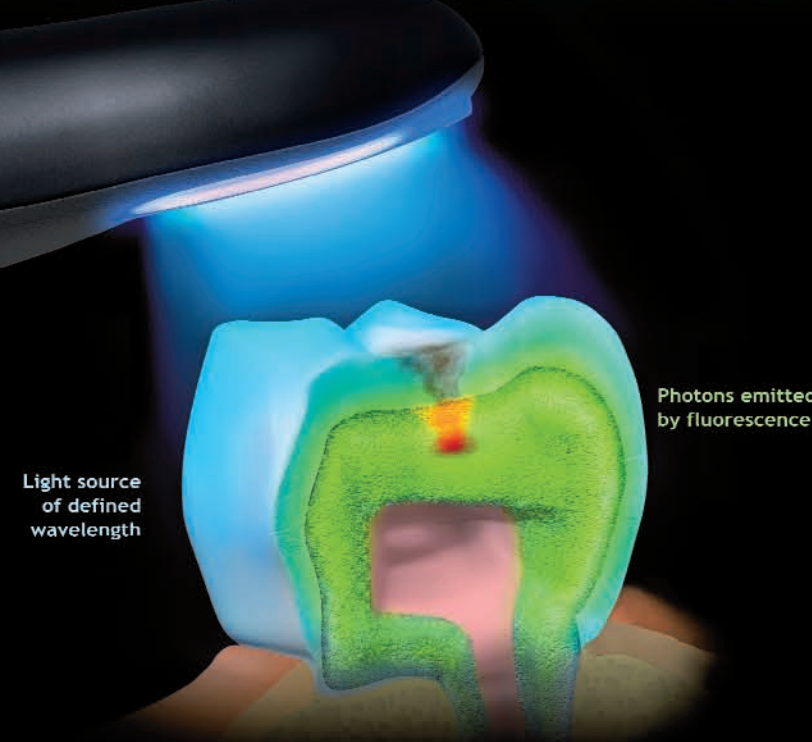


A new era

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 fluorochrom) 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.

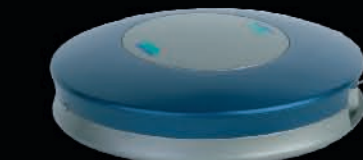
The auto fluorescence technology in SOPROLIFE allows you to detect occlusal or interproximal decay - even in its earliest stages - which can often be missed by x-rays.

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

Storage One or four images
Power supply 115v - 60Hz and 230V - 50Hz
Power consumption 9VA
One video output PAL or NTSC
One S-video output PAL or NTSC
One output USB2.0
Dimensions of the Dock:
Height 36mm / 1.41"
Width 130 mm / 5.1"
Length 145 mm / 5.7"
Weight 245g / 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 view 70
Cable Length 2.5m / 8.2'
Dimensions of the handpiece:
Height 200mm / 7.87"
Diameter 30mm / 1.18"
Weight 78g / 2.75oz



DOCK MU-USB

Storage One or four images
Power supply 24v ; 50Hz - 60Hz
Power consumption 16VA
One video output PAL or NTSC
One S-video output PAL or NTSC
One output USB2.0
Dimensions of the Dock:
Height 36mm / 1.41"
Width 72 mm / 2.83"
Length 100 mm / 3.93"
Weight 180g / 6.34oz



Dock USB2

One output USB2.0
Dimensions of the Dock:
Height 20.5mm / .8"
Width 47mm / 1.85"
Length 100mm / 3.93"
Weight 86g / 3.03 oz



SOPRO 617

High sensitivity 1/4" CCD
Resolution 768 x 494
Definition 470 lines
Sensitivity 2 lux
Cable length 8' (16' optional)
Handpiece size 0.9" x 1.1" x 8.1" (HWL)
Size of distal part 0.42" x 0.64" (HW)
Weight 1.94 oz
Lighting 8 New Generation LEDs
Adjustment Auto-focus
Non-inverted image

(Also available)



SOPRO 717

High sensitivity 1/4" CCD
Resolution 768 x 494 NTSC
Definition 470 lines
Sensitivity 2 lux
Cable length 8' (16' optional)
Handpiece size 0.9" x 1.1" x 7.8" (HWL)
Size of distal part 0.31" x 0.51" (HW)
Weight 2.7oz
Lighting 8 New Generation LEDs
Adjustment Three preselected positions:
..... (Extra-oral, Intra-oral and Macro)
Two SoproShade positions
Non-inverted image



F0223 / Jan 22, 2010



SOPROLIFE

Light Induced Fluorescence Evaluator



See what was once invisible...



diagnosis aid mode



See the invisible

- **SOPROLIFE** provides better detection of decay than any other device
- **SOPROLIFE** detects some proximal 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 (LIFE-D.T.* concept - for more information see the **SOPROLIFE** Clinical Guide).

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** allows you to get acquainted with images in blue, by comparing them with images under white light. This mode allows a specific observation of the structures surrounding the tooth such as the periodontium, whereas the blue light focuses on the tissue of the tooth. You can easily shift from one mode to the other and preserve the communication with your patient.

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 lesions



Connected to Sopro Imaging, a dedicated module allows you to have a personalized and customized follow up of the patients.

SOPROLIFE is compatible with all Sopro docking stations

