I AM EMPOWERED

INTRAORAL CAMERAS

Enhance your vision
THE PRINCIPLE OF AUTOFLUORESCENCE

1) The photons provided by an external light source illuminate the tooth tissues (enamel and dentine).

2) The energy applied by the excitation source (Blue LED) to the tooth tissues causes an energy surge in the material’s elementary particles, which then become very unstable.

3) To be able to return to a situation of stability, the excess energy is released by emitting photons lower in energy than the excitation source and those with higher wavelength (Stokes’ Law).

PATENTED AUTOFLUORESCENCE TECHNOLOGY

The ACTEON® imaging team has patented a technology based on the principle of autofluorescence.

ACTEON® intraoral cameras provide a real-time fluorescence signal of the tooth superimposed on its anatomical image, revealing invisible tissues.

SELECTIVE CHROMATIC AMPLIFICATION

Due to the combination of blue light absorption by soft tissue and selective chromatic amplification, SOPROCARE® improves visibility of all areas of tissue inflammation.

“Our scientific and clinical research in collaboration with universities and key opinion leaders all around the world, help us develop relevant innovations that meet the perpetually evolving clinical needs. In the autofluorescence field, this synergy of knowledge resulted in the creation of an international scientific congress. This approach of innovation applies to all products that we are developing within ACTEON®.”

ALAIN MAZUIR
R&D Innovations Project Manager

I AM EMPOWERED

CREATOR OF IMAGING INNOVATIONS

MORE INVENTIVE

PATENT BASED ON THE COMBINATION OF ANATOMICAL TOOTH IMAGE AND FLUORESCENCE SIGNAL
LESS INVASIVE

HIGHLIGHT PATHOLOGIES AND MOTIVATE PATIENTS

The autofluorescence makes it possible to detect decay even at its earliest stages, without subjecting the patient to any unnecessary radiation. SOPROCARE® also reveals dental plaque without using plaque disclosing solutions, and highlights gingival inflammation painlessly.

Improve clinical performance and easily communicate the treatment plan to your patient. The patient is involved in making decisions and accept the treatment.

Images can be captured and stored into any imaging software giving you all of the necessary tools to practice minimally invasive dentistry.

* Some examples of sponsored studies:
Take the guesswork out of caries detection
Autofluorescence improves your vision during clinical examination and expands your diagnostic capabilities. Highlight caries and provide the most appropriate treatment for your patients.

Diagnose early carious lesions for less invasive treatment
Manage your clinical decisions depending on the individual’s caries risk and preserve tooth structure.

Protect your patient from unnecessary radiation
The fluorescence concept surpasses the limitations of digital radiology in the detection of caries. Promote better patient care by reducing the number of necessary X-rays.

Save time
Speed up the decision-making process by improving your diagnostic capabilities and optimising your clinical examination.
Perform less invasive treatment

Ultrasonic tips for minimally invasive excavation

Effective and atraumatic sulcular opening.

Especially indicated for the treatment of class II & V caries.

Eliminate uncertainty
Easily distinguish between healthy and infected tissue to determine the limits of excavation, and consequently preserve the pulp. Fluorescence makes treatment easier, improving efficiency and productivity.

Improve the quality of your treatment
Preserve healthy teeth whilst removing all infected tissue.
REVEAL DENTAL PLAQUE AND GINGIVAL INFLAMMATION

INSTANTANEOUSLY HIGHLIGHT PLAQUE AND GINGIVAL INFLAMMATION

Perform a complete and rapid assessment of the patient’s oral health, without adding plaque disclosing solution.

- **Gingival inflammation**: from hues of pink to deep magenta depending on the severity
- **New plaque**: grainy white
- **Old plaque**: shades of yellow and orange

PREVENT HYGIENE PATHOLOGIES

Early identification of hygiene pathologies will result in early intervention and minimally invasive treatment.

Maintain the patient’s health and the longevity of their natural dentition.

IMPROVE CASE ACCEPTANCE

Ensure your patient realises the importance of oral hygiene, and enable them to better understand the information provided during the appointment.

Study:

CONTROL HYGIENE EVOLUTION

Encourage your patient by showing them their progress over time, for long term quality treatment.
INFLAMMATION

UNIQUE PROHYLAXIS TREATMENT WITH FLUORESCENCE

Fluorescence brings better vision for a faster and more efficient treatment.

1. Diagnosis and Communication with patients

2. Guided treatment in real time

3. Treatment finishing by Polishing

4. Control and follow-up

BEFORE

AFTER

DAYLIGHT mode
Initial situation

PERIO mode
Initial situation

DAYLIGHT mode
One week after treatment

PERIO mode
One week after treatment
SEE THE INFINITELY SMALL

Dental cavity preparation

Cracked tooth

Infiltrated occlusal groove

Cervical lesion

ACTEON® intraoral cameras exceed the limitations of the naked eye and offer high quality images with magnification of up to 115* times. With MACROVISION, the infinitely small appears before your eyes.

THIS IS MACROVISION

Enhance your vision during examination
See details otherwise not visible to the naked eye. Closely monitor micro fractures and the development of small lesions.

Improve your clinical performance
Take a more detailed look into dental cavity preparation and be more accurate during treatment.

* On a 17” screen
COMMUNICATE AND MOTIVATE WITH AN IMAGE

**Improve patient communication**
Highlight pathologies in an image and easily explain clinical procedures. Facilitate dialogue to address objections and patient concerns.

**Increase treatment acceptance**
Patients become more involved, meaning they soon understand the importance of their planned treatment. Improve efficiency and productivity!

**Educate your patient**
Use real images to make the patient more attentive and confident about your advice.

**Follow up**
Provide effective and efficient treatment planning by saving the images directly into the patient chart. Easily compare images from past patient visits and monitor progress.

SOPRO 717 FIRST
SOPRO 617

**SPEAK THE SAME LANGUAGE AS YOUR PATIENT**
SOPROLIFE® is a revolutionary camera that differentiates between healthy and infected tissue facilitating less invasive treatments.

AUTOFLUORESCENCE
HIGHLIGHTS DECAY AND PROMOTES MINIMALLY INVASIVE TREATMENT

The power of autofluorescence

- **DIAGNOSTIC aid mode**: identify the development of occlusal and proximal carious lesions.
- **TREATMENT aid mode**: perform minimally invasive treatment by preserving healthy tissue.
- **DAYLIGHT mode**: from portrait to macrovision, obtain sharp images with the large depth of field.

**SOPROLIFE® offers two different visions:**
white light (daylight) and blue light (fluorescence).
With the push of a button, SOPROCARE® instantly and easily highlights caries, plaque, calculus and gingival inflammation.

CARIO mode: caries are detected as red, surrounding tissue is displayed in black and white.

PERIO mode: highlight plaque, calculus, and gingival inflammation.

DAYLIGHT mode: communicate more effectively with your patient and see details that are not visible with the naked eye.

SOPROCARE® is an unparalleled communication tool in the dental practice!
First SOPRO® 717 reveals micro fissures, infiltrations, lesions, everything that is not visible with the naked eye.

MACROVISION REVEALS WHAT WAS ONCE INVISIBLE

Magnification of the image up to 115 times*

- Large depth of field from extraoral to macrovision
- Exceptional image quality provided by a highly sophisticated optical system
- Extremely small camera head for easier access
- Successfully capture images with a simple glide over the SOPRO® touch

SOPRO® 717 reveals micro fissures, infiltrations, lesions, everything that is not visible with the naked eye.

* On a 17" screen
SOPRO® 617 is easy to use for patient communication, and a great asset for case acceptance.

COMMUNICATE WITH YOUR PATIENTS:
USE AN IMAGE, THE KEY TO EDUCATION AND CASE ACCEPTANCE

Simplicity in the palm of your hand
- Rounded shape and thin distal part for maximum accessibility and unrivaled patient comfort
- 105° angle of view for better exploration of distal areas
- Fixed focus with large depth of field, providing high quality images
- Ease of use: point and shoot

SOPRO® 617 is easy to use for patient communication, and a great asset for case acceptance.
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>SOPROCARE</th>
<th>SOPROLIFE</th>
<th>SOPRO® 717</th>
<th>SOPRO® 617</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highlight dental plaque</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Highlight gingival inflammation</td>
<td>✓</td>
<td></td>
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</tr>
<tr>
<td>Reveal caries</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Macrovision</td>
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<td>✓</td>
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<td>✓</td>
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<tr>
<td>Intraoral image</td>
<td>✓</td>
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</tbody>
</table>

The medical devices for dental care SOPROCARE®, SOPROLIFE®, SOPRO® 617, SOPRO® 717 First are of class IIa and manufactured by SOPRO®, notified body LNE/GMED, NEWTRON® and EXCAVUS® are of class IIa and manufactured by SATELEC®, notified body LNE/GMED, EXPASYL is of class I and manufactured by PIERRE ROLAND®, notified body LNE/GMED. These medical devices are not refunded by health insurance organizations. Read carefully the instructions on the labelling before use.

SOPROCARE®, SOPROLIFE®, SOPRO® are registered trademarks of SOPRO.

*All other trademarks cited herein are the property of their respective owners*
For Yosemite and El Capitan operating systems, a Mac from 2013 or later is required.

**SOPRÚCARE**
- High sensitivity: 1/4" CCD
- Resolution: (752x582) PAL; (786x494) NTSC
- Lighting: 240 lines; 2 lux
- Focus adjustment: 3 pre-set positions (Extraoral, Intraoral, LIFE, Macro)
- Screen resolution: 1280 x 1024 pixels
- Processor: Intel Core i5 or i7
- Operating system: OS X Mavericks
- RAM: 4GB or more
- Hard disk: 250GB or more
- USB ports: 4 USB2 Hi-Speed ports
- Graphic card: 512 MB RAM unshared memory compatible DirectX 9 or more
- Screen resolution: 1280 x 1024

**SOPRÚLIFE**
- High sensitivity: 1/4" CCD
- Resolution: (752x582) PAL; (786x494) NTSC
- Lighting: 240 lines; 2 lux
- Focus adjustment: 3 pre-set positions (Extraoral, Intraoral, LIFE, Macro)
- Screen resolution: 1280 x 1024 pixels
- Processor: Intel Core i5 or i7
- Operating system: OS X Mavericks
- RAM: 4GB or more
- Hard disk: 250GB or more
- USB ports: 4 USB2 Hi-Speed ports
- Graphic card: 512 MB RAM unshared memory compatible DirectX 9 or more
- Screen resolution: 1280 x 1024

**SOPRÚ717**
- High sensitivity: 1/4" CCD
- Resolution: (752x582) PAL; (786x494) NTSC
- Lighting: 240 lines; 2 lux
- Focus adjustment: 3 pre-set positions (Extraoral, Intraoral, LIFE, Macro)
- Screen resolution: 1280 x 1024 pixels
- Processor: Intel Core i5 or i7
- Operating system: OS X Mavericks
- RAM: 4GB or more
- Hard disk: 250GB or more
- USB ports: 4 USB2 Hi-Speed ports
- Graphic card: 512 MB RAM unshared memory compatible DirectX 9 or more
- Screen resolution: 1280 x 1024

**SOPRÚ817**
- High sensitivity: 1/4" CCD
- Resolution: (752x582) PAL; (786x494) NTSC
- Lighting: 240 lines; 2 lux
- Focus adjustment: 3 pre-set positions (Extraoral, Intraoral, LIFE, Macro)
- Screen resolution: 1280 x 1024 pixels
- Processor: Intel Core i5 or i7
- Operating system: OS X Mavericks
- RAM: 4GB or more
- Hard disk: 250GB or more
- USB ports: 4 USB2 Hi-Speed ports
- Graphic card: 512 MB RAM unshared memory compatible DirectX 9 or more
- Screen resolution: 1280 x 1024

**Dock M-Video**
- Storage of one or four images
- Power supply: 24V – 50Hz
- Power consumption: 10VA
- One PAL or NTSC video and S-video output
- Dimensions (mm): L. 100 x W. 72 x H. 36
- Weight: 190g
- Cable length: configurable

**Dock MU-Video**
- Storage of one or four images
- Power supply: 24V – 50Hz
- Power consumption: 10VA
- One PAL or NTSC video and S-video output
- Dimensions (mm): L. 100 x W. 72 x H. 36
- Weight: 190g
- Cable length: configurable

**Dock M-USB2**
- Storage of one or four images
- Power supply: 24V – 50Hz
- Power consumption: 10VA
- One PAL or NTSC video and S-video output
- Dimensions (mm): L. 100 x W. 72 x H. 36
- Weight: 190g
- Cable length: configurable

**Dock MU-USB2**
- Storage of one or four images
- Power supply: 24V – 50Hz
- Power consumption: 10VA
- One PAL or NTSC video and S-video output
- Dimensions (mm): L. 100 x W. 72 x H. 36
- Weight: 190g
- Cable length: configurable

**Dock USB2**
- One digital USB 2.0 output
- Dimensions (mm): L. 205 x W. 28 x H. 24
- Weight: 78g
- Angle of view: 70°
- Screen resolution: 1280 x 1024 pixels
- Processor: Intel Core i5 or i7
- Operating system: OS X Mavericks
- RAM: 4GB or more
- Hard disk: 250GB or more
- USB ports: 4 USB2 Hi-Speed ports
- Graphic card: 512 MB RAM unshared memory compatible DirectX 9 or more
- Screen resolution: 1280 x 1024

**Dock U-USB2**
- One digital USB 2.0 output
- Dimensions (mm): L. 100 x W. 72 x H. 36
- Weight: 76g
- Cable length: configurable

**Windows® minimum configuration required**
- Operating system: Windows 7 SP1
- Processor: Core2duo - 3GHz
- RAM: 2GB
- Hard disk: 250GB
- USB ports: 4 USB2 Hi-Speed ports
- Graphic card: 512 MB RAM unshared memory compatible DirectX 9
- USB Chipset: Intel or NEC / RENESAS
- Screen resolution: 1280 x 1024

**Windows® recommended configuration**
- Operating system: Windows 10
- Processor: Intel Core i5
- RAM: 4GB
- Hard disk: 250GB
- USB ports: 4 USB2 Hi-Speed ports
- Graphic card: Chipset Nvidia or ATI 2 GB unshared memory compatible DirectX 9 or more
- USB Chipset: Intel or NEC / RENESAS
- Screen resolution: 1280 x 1024

**Mac® minimum configuration required**
- Computer: MacBook Pro 13.3" or iMac 21.5"
- Operating system: OS X Mavericks
- Processor: Intel Core i7
- RAM: 4GB

**Mac® recommended configuration**
- Computer: iMac 27"
- Operating system: Mac OS X El Capitan
- Processor: Intel Core i7
- RAM: 4GB