I AM EMPOWERED

INTRAORAL CAMERAS

Enhance your vision

SoproCARE
- High sensitivity...1/4" CCD
- Resolution.. (752x582) PAL ; (768x494) NTSC
- Lighting..7 LED (4 white; 3 blue)
- Focus adjustment..4 pre-set positions
  (Extraoral, Intraoral, LIFE, Macro)
- Freeze Frame.................................. SOPRO Touch or pedal (option)
- Angle of view.. 70°
- Dimensions (mm)... L. 200 x W. 30 x H. 24
- Weight...78 g

SoproLIFE
- High sensitivity...1/4" CCD
- Resolution.. (752x582) PAL ; (768x494) NTSC
- Lighting................................White Mode: 4 LED; Blue Mode: 4 LED
- Focus adjustment..4 pre-set positions
  (Extraoral, Intraoral, LIFE, Macro)
- Freeze Frame.................................. SOPRO Touch or pedal (option)
- Angle of view.. 70°
- Dimensions (mm)... L. 200 x W. 30 x H. 24
- Weight...78 g

Sopro 717 First
- High sensitivity...1/4" CCD
- Resolution..(752x582) PAL ; (768x494) NTSC
- Definition...470 lines
- Sensitivity...2 lux
- Lighting... 8 LED
- Focus adjustment..3 pre-set positions
  (Extraoral, Intraoral, Macro)
- Freeze Frame.................................. SOPRO Touch or pedal (option)
- Angle of view.. 70°
- Dimensions (mm)... L. 200 x W. 28 x H. 24
- Weight...75 g

Sopro 617
- High sensitivity...1/4" CCD
- Resolution..(752x582) PAL ; (768x494) NTSC
- Definition...470 lines
- Sensitivity...2 lux
- Lighting... 8 LED
- Focus adjustment... fixed focus
- Freeze Frame.................................. SOPRO Touch or pedal (option)
- Angle of view.. 80°
- Dimensions (mm)... L. 205 x W. 28 x H. 24
- Weight...55 g

Dock M-Video
- Storage of one or four images
- Power supply: 115V ~ 60Hz & 230V ~ 50Hz
- Power consumption: 9VA
- One PAL or NTSC video and S-video output
- Dimensions (mm): L. 145 x W. 130 x H. 35
- Weight: 245g
- Cable lenght: configurable

Dock M-USB2
- Storage of one or four images
- Power supply: 115V ~ 60Hz & 230V ~ 50Hz
- Power consumption: 9VA
- One PAL or NTSC video and S-video output
- One digital USB 2.0 output
- Dimensions (mm): L. 145 x W. 130 x H. 35
- Weight: 245g
- Cable lenght: configurable

Dock USB2
- One digital USB 2.0 output
- Dimensions (mm): L. 100 x W. 46 x H. 20
- Weight: 165g
- Cable lenght: 2.5m

Dock MU-Video
- Storage of one or four images
- Power supply: 24V ~ ; 50Hz - 60Hz
- 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 lenght: configurable

Dock MU-USB2
- Storage of one or four images
- Power supply: 24V ~ ; 50Hz - 60Hz
- Power consumption: 10VA
- One PAL or NTSC video and S-video output
- One digital USB 2.0 output
- Dimensions (mm): L.100 x W. 72 x H. 36
- Weight: 190g
- Cable lenght: configurable

Dock U-USB2
- Power supply: 24V ~ ; 50Hz - 60Hz
- Power consumption: 15VA
- One digital USB 2.0 output
- Dimensions (mm): L.50 x W. 75 x H. 36
- Weight: 76g
- Cable lenght: 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..1TB
- 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 or more

Mac® minimum configuration required
- Computer......................MacBook® Pro 13.3"*
  or iMac® 21.5"
- Operating system....................OS X Mavericks
- Processor.................................... Intel® Core 2
- RAM... 2GB

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

F0370 / February 01, 2017

ACTEON

SOPRO CARE · SOPRO LIFE · SOPRO 717 · SOPRO 617

I AM EMPOWERED

THE PRINCIPLE OF AUTOFLUORESCENCE...

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

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).

PATENT BASED ON THE COMBINATION

ANATOMICAL TOOTH IMAGE AND FLUORESCENCE SIGNAL

CREATOR OF IMAGING INNOVATIONS

MORE INVENTIVE

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

LESS INVASIVE

HIGHLIGHT PATHOLOGIES AND MOTIVATE THE PATIENT

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 accepts the treatment.

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

ALAIN MAZUIR
R&D Innovations Project Manager

"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®**."

* Some examples of sponsored studies:
Performance of a light fluorescence device for the detection of microbial plaque and gingival inflammation. Peter Rechmann, Shasan W. Liou, Beate M. T. Rechmann, John D. B. Featherstone, in Clin Oral Invest, 2016.
Use of new minimum intervention dentistry technologies in caries management. H Tassery, B Levallois, E Terrer, DJ Manton, M Otsuki, S Koubi, N Gugnani, I Panayotov, B Jacquot, F Cuisinier, P Rechmann, in Australian Dental Journal, 2013.
Functional mapping of human sound and carious enamel and dentine with Raman spectroscopy. H. Salehi, E. Terrer, I. Panayotov, B. Levallois, B. Jacquot, H. Tassery, F. J. G. Cuisinier, in Journal of BioPhotonics, 20 September, 2012.

DIAGNOSE AND TREAT CARIES

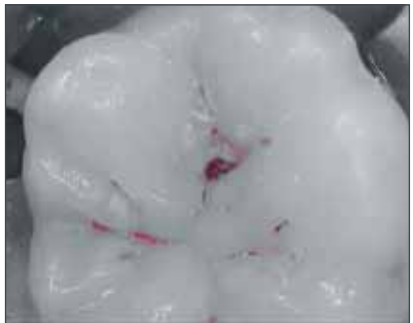## ENHANCE CLINICAL EXAMINATION CAPABILITIES

PERFORM LESS INVASIVE TREATMENT

SoproCARE
SoproLIFE

SOPRO LIFE

DAYLIGHT mode
▶ *Initial situation*

DIAGNOSTIC aid mode
▶ *Demineralization over the mesial marginal crest revealed*

DAYLIGHT mode
▶ *Opened cavity*

TREATMENT aid mode
▶ *Demineralized enamel and infected tissue*

TREATMENT aid mode
▶ *All the infected tissue has been removed*

SOPRO CARE

DAYLIGHT mode
▶ *Initial situation*

CARIO mode
▶ *Carious lesion revealed*

CARIO mode
▶ *Infected tissue*

CARIO mode
▶ *All of the infected dentin has been removed*

EXPASYL™

Effective and atraumatic sulcular opening.

Especially indicated for the treatment of class II & V caries

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.

Early detection of lesion for less invasive treatment
Manage your clinical decisions depending on the individual's caries risk and preserve tooth structure.

Protect your patient from any 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 optimizing your clinical examination.

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 while removing all infected tissue.

exCavus

Ultrasonic tips for minimally invasive caries excavation

REVEAL 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
- Plaque: grainy white
- Calculus: shades of yellow and orange

Calculus
Severe inflammation
Plaque
Slight
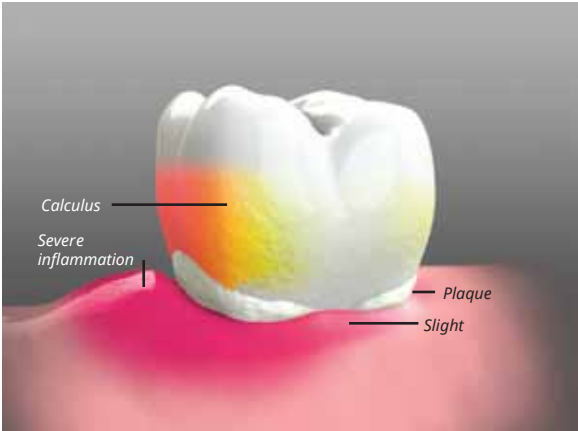
Chromatic mapping representing the characterization of tissues in PERIO mode

PREVENT HYGIENE PATHOLOGIES

DAYLIGHT mode

PERIO mode

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 realizes the importance of oral hygiene, and enable them to better understand the information provided during the appointment.

SoproCARE

UNIQUE PROPHYLAXIS TREATMENT WITH FLUORESCENCE

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

1 Diagnosis and Communication with patients
SOPRO CARE

2 Guided treatment in real time
NEWTRON F.L.A.G. FOR B·LED

3 Treatment finishing by Polishing
AIR N GO EASY

4 Control and follow-up
SOPRO CARE

CONTROL HYGIENE EVOLUTION

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

BEFORE

DAYLIGHT mode
► Initial situation

PERIO mode
► Initial situation

AFTER

DAYLIGHT mode
► One week after treatment

PERIO mode
► One week after treatment

SEE THE INFINITELY SMALL

COMMUNICATE AND MOTIVATE WITH IMAGES

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

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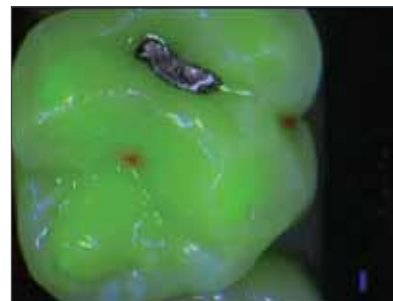Use real images to make the patient more attentive and confident about your advice.

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.

SPEAK THE SAME LANGUAGE AS YOUR PATIENT!

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.

SOPRO LIFE

SOPRO CARE

AUTOFLUORESCENCE
HIGHLIGHTS DECAY AND PROMOTES MINIMALLY INVASIVE TREATMENT

SELECTIVE
CHROMATIC AMPLIFICATION
DIFFERENTIATES THE COLOR OF TISSUE AND REVEAL ORAL HYGIENE PATHOLOGIES

DIAGNOSTIC mode

The power of autofluorescence

- **DIAGNOSTIC mode**: identify the development of occlusal and proximal carious lesions.

- **TREATMENT 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 types of vision: white light (daylight) and blue light (fluorescence).

TREATMENT mode

SoproLIFE® is a revolutionary camera that differentiates between healthy and infected tissue facilitating less invasive treatments.

DAYLIGHT mode

CARIO mode

3 needs, 3 modes

- **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 unmatchable communication tool in the dental practice!

PERIO mode

DAYLIGHT mode

With the push of a button, **SoproCARE®** instantly and easily highlights caries, plaque, calculus and gingival inflammation.

SOPRO 717 FIRST

SOPRO 617

MACROVISION
REVEALS WHAT WAS ONCE INVISIBLE

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

State of the seal of the amalgam

Infiltration

Infiltrated occlusal groove

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.

Intraoral

Intraoral

One tooth

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

	SOPRO CARE	SOPRO LIFE	SOPRO 717	SOPRO 617
Highlight dental plaque	✔			
Highlight gingival inflammation	✔			
Reveal caries	✔	✔		
Macrovision	✔	✔	✔	
Intraoral image	✔	✔	✔	✔

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.

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NAME IT CLAIM IT TREAT IT™
ACTEON North America

NAME IT
Detect Gingivitis with SoproCARE

CLAIM IT
Document it with new Gingivitis code

TREAT IT

SOPRO CARE

NAME IT
Detect Caries with SoproLIFE

CLAIM IT
Document it with new Caries code

TREAT IT

SOPRO LIFE

MORE INVENTIVE   LESS INVASIVE

ACTEON