

Bringing Dental Imaging to LIFE...

a dec[®]
reliablecreativesolutions



S O P R O
ACTEON Imaging

SOPRO

The world leader in dental imaging...

SOPRO, A NEW VISION

SOPRO, the imaging division of ACTEON Group, is based in La Ciotat in the Southeast of France and specializes in the design of imaging systems intended for medical and dental applications. SOPRO has a work force of some 80 employees, including a design department with 13 engineers who work in close collaboration with dentists and surgeons. In addition to this, SOPRO has a manufacturing unit, COMEG, recognized as an international leader in the field of endoscopy, located in Tuttlingen Germany with a work force of 60.

A COMPLETE RANGE OF QUALITY IMAGING PRODUCTS

Specializing in image processing and electronics, SOPRO offers a wide range of products dedicated to dental imaging which includes; diagnostic tools to detect caries, intraoral cameras, digital radiology systems and imaging software. The SOPRO product offering is designed to meet the requirements of any practitioner, no matter the configuration of the surgery. SOPRO develops in parallel a range of endoscopy-related medical products -cameras, light sources, insufflators and irrigators.

The acquisition of the German company COMEG, whose activity is complementary, has enabled SOPRO to extend its skill base.

SERVICES THAT MAKE THE DIFFERENCE

The ACTEON Group has an international network of subsidiaries and agencies with SOPRO having at its disposal commercial and technical teams that provide reliable, fast quality of service.





SOPRO 617

SOPRO 617pages 4 & 5
The Masterpiece...



SOPRO 717 First

SOPRO 717 Firstpages 6 & 7
The Macroperfection...



SOPROLIFE
Light-Induced Fluorescence Evaluator

SOPROLIFEpages 8 & 9
Caries Detection and Intraoral Camera



SOPRO
Docking Stations

SOPRO Solutions.....pages 10 & 11
Which docking station is the right choice for your office



SOPRO 617

The Masterpiece...



Fixed-focus and a large depth of field



From portrait ←

→ to a single tooth.

With no adjustment necessary, the obtained image is perfectly clear. This fully automatic focus saves you time, and is effective without any intervention from you.

Unmatched lighting system



Classic LEDs without condenser.



SOPRO LEDs with condenser.

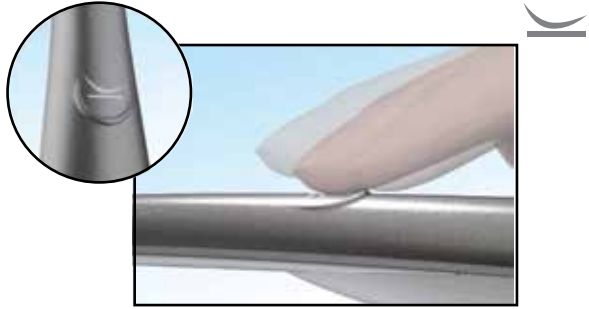
The SOPRO 617 lighting system is composed of the latest generation LEDs, which utilize condensers to focus the light and produce a very powerful beam. Among the most dramatic benefits you can expect:

- consistently bright images for whatever the scenario
- minimal shading and uniform illumination of the full image
- worry-free temperature because of reduced heat emission

Optimized Ergonomics

The SOPRO 617 intraoral camera offers a 105° view for better exploration of distal areas. Its rounded shape and thinness of the distal part provide greater comfort in the mouth.

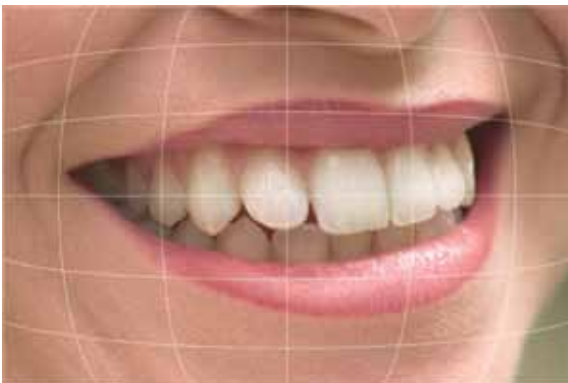
SoproTouch, the original!



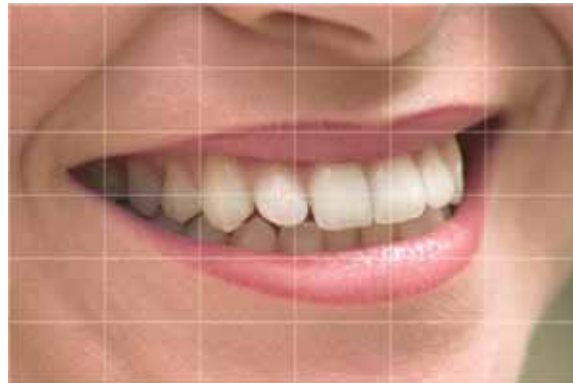
Freeze images on the screen with a simple glide over the SoproTouch. No more blurred images!



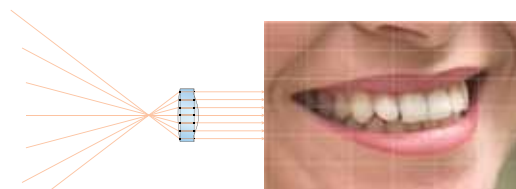
High-fidelity images



Standard camera.



SOPRO 617 with aspheric lens.



The new optical system of the SOPRO 617 is equipped with an aspheric lens, which eliminates distortion and provides a more uniform quality image. Its optimized angle of view enables perfect visibility even into the hard-to-reach areas of the mouth.

- Maximum accessibility for unequalled patient comfort
- 105° view for better exploration of distal areas
- High-quality images
- Great depth of field
- Compatibility with a video screen and/or a computer
- Easy-to-use



SOPRO
Dock U-USB

SOPRO 617
Works with these Docking Stations -



SOPRO
Dock MU-USB

frost



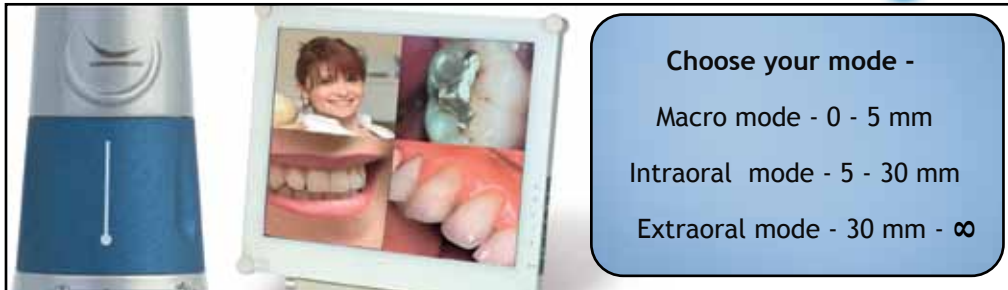
SOPRO 717^{First}



Discover Macrovision

Many of you have asked for a version of the **SOPRO 717** without the **SoproShade** that's compatible with the Dock U-USB; the **SOPRO 717 First** is the answer to your request! This camera fits perfectly into your dental practice with versatility and compatibility. With its new DSP (Digital Signal Processor) the **SOPRO 717 First** offers you exceptional image quality.

A success from any point of view



SOPRO 717 First's great depth of field means you obtain a sharp image in seconds no matter what mode is chosen. Perfect illumination is achieved by eight LEDs.

Macrovision



Pulp Chamber



Cracked Tooth



Broken Amalgam



State of Surface

Macrovision is the major advantage offered by the **SOPRO 717 First**: it goes far beyond the limits of the human eye, giving you a magnified view of up to 115 times. A single gesture, and the infinitely small appears before your eyes!

- Image magnification up to 115 times in Macro mode
- Exceptional image quality
- A successful image capture thanks to SoproTouch
- Perfect integration option into the dental chair
- Compatibility with a video screen and/or a computer



SOPRO
Dock U-USB

SOPRO 717^{First}

Works with these Docking Stations -



SOPRO
Dock MU-USB

It's an Intraoral Camera!



Daylight Mode

As an intraoral camera *SoproLIFE* provides clear and crisp images in each of its three preset positions:

- Macro 0-5 mm
- Intraoral 5-30 mm
- Portrait 30 mm - ∞

It's a Caries Detection Device!



Diagnosis Mode

SoproLIFE provides better detection of decay than any other available device.

Treatment Mode

Images produced in the treatment mode show a differentiation of healthy tissue vs diseased tissue.

It's two devices in one!!!

- *It's an Intraoral Camera!*
- *It's a Caries Detection Device!*
- *It can detect occlusal caries!*
- *It can detect interproximal caries!*
- *It reduces patient's exposure to X-rays!*
- *It increases patient case acceptance!*
- *It's 100% backwards compatible to all existing Sopro Docking Stations!*
- *It's 100% seamlessly integrated with virtually any imaging software!*
- *No special software required!*
- *It can be used with a simple monitor!*

Development of a patented technology based on the principle of fluorescence

See what was once invisible...

Over the last five years SOPRO (the world leader in dental video imaging) has applied all of 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, *SoproLIFE*, which is used for the diagnosis and treatment of caries.

Diagnosis Mode



Daylight Mode



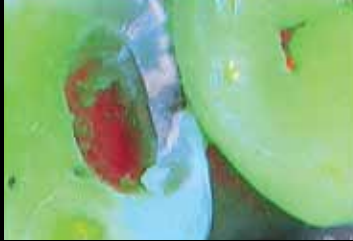
Diagnostic Mode

SoproLIFE offers greater accuracy in identifying the development of occlusal and/or proximal carious lesions. This mode potentially speeds up the decision making process in treatment planning and enables safer options for the patients by possibly reducing the number of x-rays.

Treatment Mode



Carious Cavity / Daylight Mode



Treatment Mode



Excavation in progress



Excavation Complete

Clinical performance is enhanced as *SoproLIFE* enables you to visually differentiate between healthy and affected tissue in the excavated site. Treatment Mode provides the clinician complete confidence in the removal of only the affected tissues, thus preserving as much healthy tooth structure as possible.

Daylight Mode



Portrait



Smile



Intraoral



Macro

In white light, from Portrait to Macro, *SoproLIFE* produces unequalled quality of image. This mode not only enables you to communicate more effectively with your patients, but also gives you the ability to see details invisible to the naked eye.

What they're saying...

"The *SoproLIFE* has literally changed the way I do operative dentistry and case presentations. The images pre-op and during the procedures have helped me professionally in recognizing areas of decay that I might have otherwise missed. It also gives the patients a sense of total confidence in the thoroughness of my "work" as well as the use of the latest technology for their care."

Paul Feuerstein, DMD
 North Billerica, MA - Private Practice
 2010 Yankee Dental Congress "Clinician of the Year"
 Adjunct Asst Professor Tufts University of Dental Medicine

"The *SoproLIFE* combines an intraoral camera providing exceptional detail with caries detection into one device making caries detection easier. Additionally, *SoproLIFE* enhances my skills as a dentist by enabling me to detect caries earlier and more conservatively remove decay. *SoproLIFE* is a valuable tool to examine teeth for caries and fractures more thoroughly."

Martin Jablow DMD
 Woodbridge, NJ - Private Practice
 International Lecturer

- *SoproLIFE* is the only concept in the world to give you two different views
- Save time by making a faster, accurate diagnosis
- Protect your patients by reducing the number of x-rays
- Differentiate between healthy tissue and infected tissue
- Enhance your clinical performance



SOPRO
 Dock U-USB

SOPROLIFE
 Works with these Docking Stations -



SOPRO
 Dock MU-USB

Whatever your set-up, there

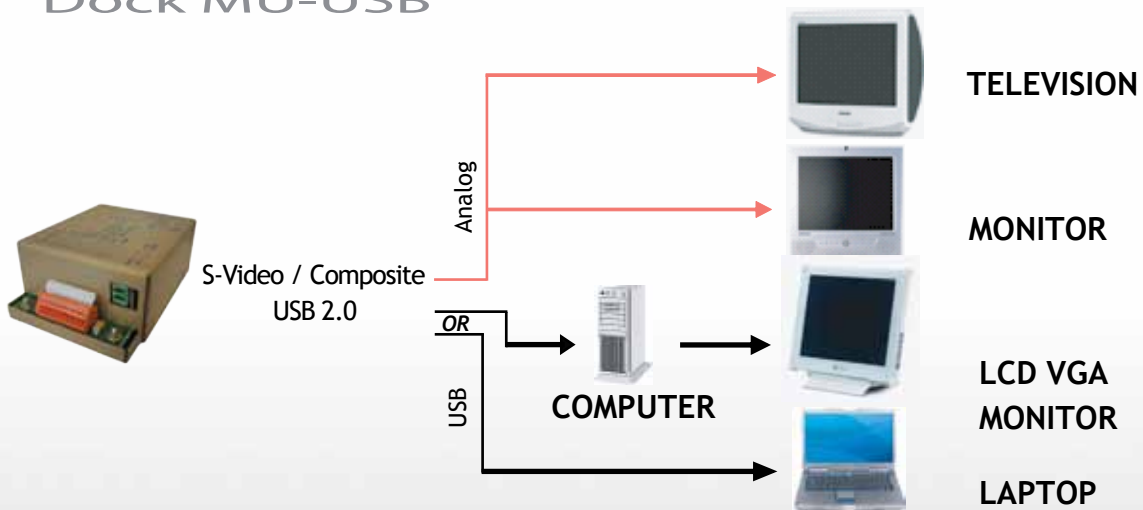


SOPRO
Dock MU-USB

The Dock MU-USB is a built-in camera module designed for use with all Sopro cameras and is powered by the chair's on-board 24V AC power supply. Additionally, it features an internal memory board, which can buffer 1 to 4 images.

The display options for this dock are very flexible - live streaming video can be displayed via a USB 2.0 connection to an operator PC's display and optionally to any s-video or composite video analog display device. The video stream is displayed simultaneously on each display.

Its compact size and light weight allow an easy installation into different dental units and can be configured to use the chair's foot control for easy image capture. The kit includes the docking station and all required cabling to integrate it seamlessly into the A-dec delivery system of your choice.



The Dock MU-USB is the ideal docking station when you wish to connect your SOPRO camera with a television or monitor in addition to a computer with an LCD VGA monitor or laptop

There is a SOPRO solution...

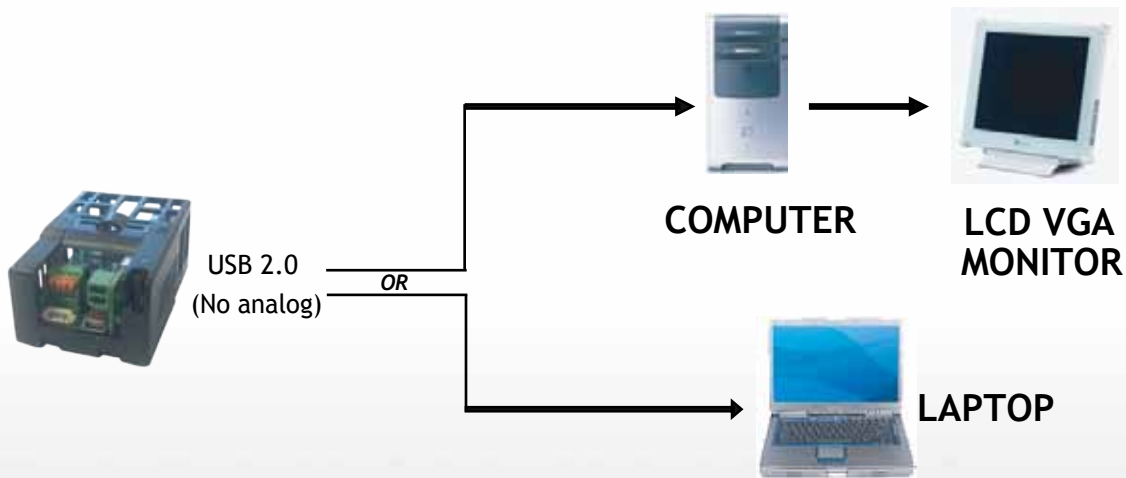


SOPRO
Dock U-USB

Our newest docking station, the U-USB is designed for use with the SOPRO 617, SOPRO 717 First and SoproLIFE camera handpieces. It is not intended for use with SOPRO 717 with SoproShade Concept. It too requires a 24V AC power supply, which is typically available in the chair but can be sourced separately.

The display option for this model is limited to live streaming video via a USB 2.0 connection to an operator PC's display. A further enhancement to this new model is the modular connection of all camera cabling to the dock... no more threading cables into friction connections.

Its design is compact and lightweight, easily installed into any chair and delivery unit. It can also be configured to use either the camera handpiece or the chair's foot control for image capture. The kit contains the docking station as well as all required cabling for successful integration.



The Dock U-USB is the ideal docking station when you wish to connect your SOPRO camera to a computer with an LCD VGA monitor or laptop computer only.



SOPRO 617

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 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



SOPRO 717^{First}

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:
 (Extraoral, Intraoral and Macro)
 Non-inverted image



SOPRO LIFE

Light Induced Fluorescence Evaluator

High sensitivity 1/4" CCD.....
 Resolution (752 x 582) PAL; (768 x 494) NTSC
 Lighting White mode - 4 LED / Blue mode - 4 LED
 Angle of view 70
 Cable Length 2.5m / 8.2'
 Handpiece size 0.9" x 1.1" x 7.8" (HWL)
 Weight 78g / 2.75oz
 Adjustments: 4 preset positions
 (Extraoral, Intraoral, LIFE, Macro)
 Freeze Frame with SoproTouch or pedal (option)



SOPRO Dock MU-USB

Storage One or four images
 Power supply 115V - 60Hz and 230V - 50Hz
 Power consumption 9 VA
 One video output PAL or NTSC
 One S-video output PAL or NTSC
 One output USB 2.0
 Dimensions of the Dock:
 Height 36 mm / 1.41"
 Width 130 mm / 5.1"
 Length 145 mm / 5.7"
 Weight 245 g / 8.64oz



SOPRO Dock U-USB

Storage Computer software dependent
 Power supply 24V - ; 50Hz - 60Hz
 Power consumption 10 VA
 One output USB 2.0
 Dimensions of the Dock:
 Height 36 mm / 1.41"
 Width 50 mm / 1.96"
 Length 75 mm / 2.95"
 Weight 76 g / 2.68oz



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