

ACTEON  
IMAGING

Integration for A-dec



Compatible with:

Mac OS®  
Apple®

&



✓ 64-bit

✓ 32-bit

**ACTEON**  
NORTH AMERICA

# 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 the user.

### Unmatched lighting system



Classic LEDs without condenser.



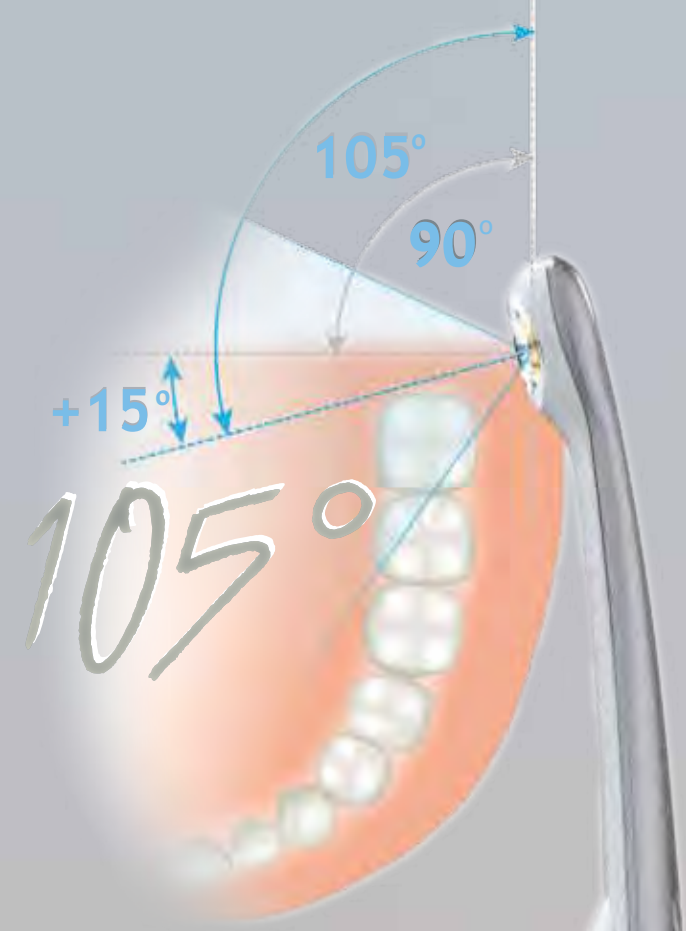
SOPRO LEDs with condenser.

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:

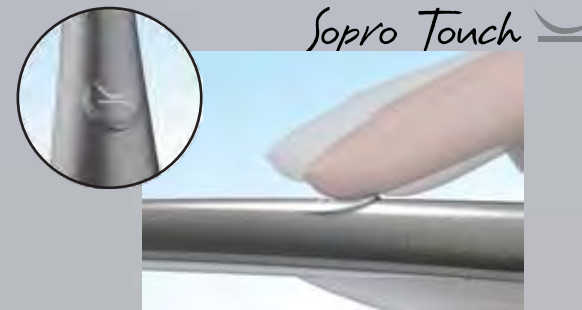
- The image is luminous in any circumstance.
- The emitted heat is reduced.
- The entire image is uniformly illuminated (minimal shading).

### Optimized Ergonomics

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

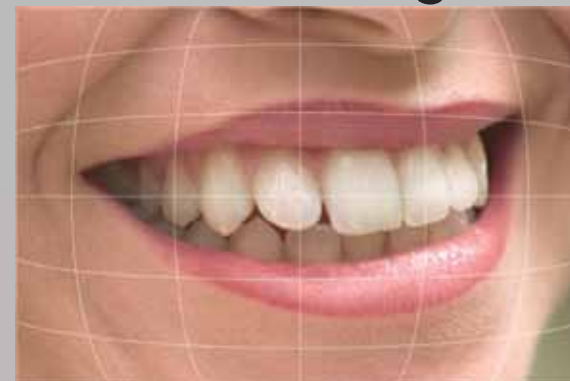


### SOPROTOUCH, the original!

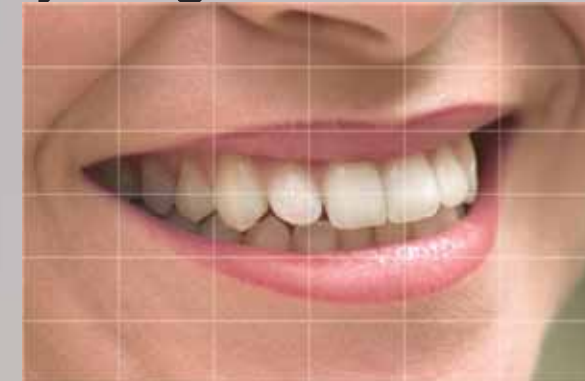


Images can be captured by a feather-light glide of a finger over the *Sopro Touch Sensor*. No more blurred images!

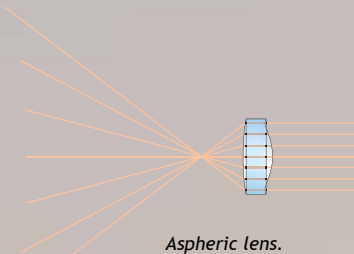
### High-fidelity images



Standard camera.



SOPRO 617 with aspheric lens.



Aspheric lens.

The 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° angle of view for better exploration of the distal areas
- High-quality images
- Great depth of field
- Compatibility with a video screen and/or a computer
- Easy to use



SOPRO Mini Dock U\_USB2

### SOPRO 617

Works with the following Docking Stations -



SOPRO Dock MU USB

# SOPRO 717<sup>First</sup>



## A success from any point of view



Choose your mode -  
 Macro mode - 0 - 5mm  
 Intra-Oral mode - 5 - 30mm  
 Extra-Oral mode - 30mm - ∞

first

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



## Discover Macrovision

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!



State of the seal of the amalgam



Dental Cavity Preparation



Microfissure with lesion



Cervical lesion



Infiltrated occlusal groove



Corrosion and Decay



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



SOPRO Mini Dock U\_USB2

## SOPRO 717<sup>First</sup>

Works with the following Docking Stations -



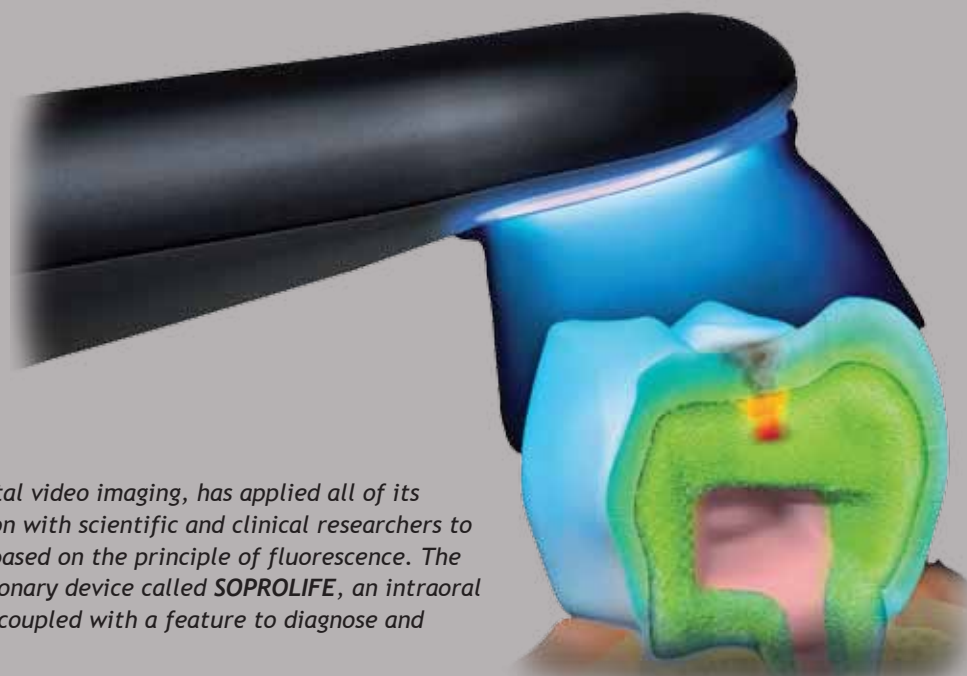
SOPRO Dock MU USB

# SOPROLIFE

Light Induced Fluorescence Evaluator



Development of a patented technology based on the principle of fluorescence



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 device called SOPROLIFE, an intraoral camera with high image quality coupled with a feature to diagnose and treat caries.

## Daylight Mode

*It's an Intra Oral Camera!*



Portrait



Smile



Intraoral



Macro

In Daylight Mode, 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.

## Diagnosis Mode

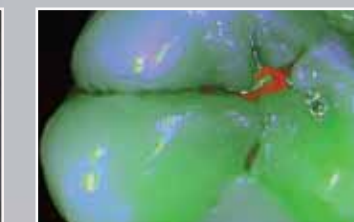
*It's a Caries Detection Device!*



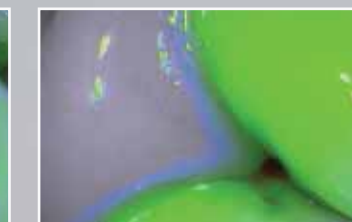
Buccal Fracture with Decay



Decay Leaking From Margin of Sealant



Occlusal Decay



Interproximal Decay

Diagnostic 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

*It's SoproLIFE!!!*



During Excavation



During Excavation



During Excavation



Excavation Complete

Treatment Mode provides the clinician complete confidence in the removal of only the affected tissues, preserving as much healthy tooth structure as possible.



*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.



**SOPROLIFE**  
Works with the following  
Docking Stations -



**SOPRO**  
Dock MU USB

## Daylight Mode

### Macrovision

Provides magnification up to 115 times, revealing details otherwise not visible to the naked eye, such as microfractures.

### A sharp point of view

A preset focus ring replaces the inconvenience of autofocus and provides sharp images with no delay, regardless of the object or the distance. With one click, easily go from focal depths of Extra-oral, Intra-oral, Tooth, and finally Macrovision.



Broken Amalgam in DAYLIGHT mode



Implant Treatment in DAYLIGHT mode



Caries in amalgam border in DAYLIGHT mode

## Perio Mode

### New approach to patient communication

PERIO mode illuminates new plaque, tartar and gingival inflammation. Early identification of these conditions results in early intervention and minimally invasive treatment.

### Preventive dentistry

PERIO mode reveals the pathologies, and allows the dental professional to track any increasing anomalies.



Before treatment in DAYLIGHT Mode



Before treatment in PERIO Mode



Two weeks after treatment in DAYLIGHT Mode



Two weeks after treatment in PERIO Mode

## Cario Mode

### Fluorescence for everyone

Caries are clearly revealed by the bright red color in the CARIO mode. Other surrounding tissue is displayed in black and white, drawing the focus only to the caries.

### Improve treatment planning

SOPROCARE provides effective and efficient treatment planning by saving the images directly into the patient chart. This allows the dental professional to easily compare images from past patient visits and provides the ability to control the lesion progress.



Carious lesion invisible in DAYLIGHT Mode



Carious lesion visible in CARIO Mode



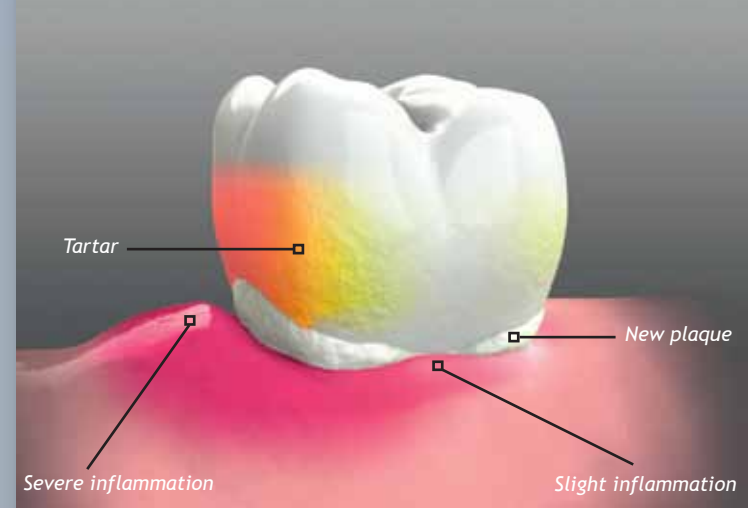
Carious Lesion in CARIO mode



Carious lesion during treatment in CARIO Mode

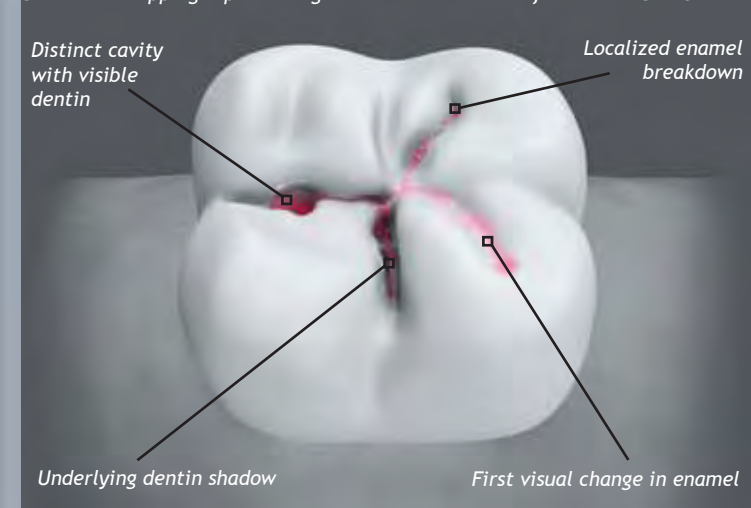
## Perio Mode

Chromatic mapping representing the characterization of tissues in PERIO mode



## Cario Mode

Chromatic mapping representing the characterization of tissues in CARIO mode



The SoproCARE concept was developed to answer the needs of the dental professional during prophylaxis and periodontal treatment in the office.

Utilizing three modes, SoproCARE is the first and only intraoral camera with the ability to reveal caries, dental plaque and gingival inflammation.

SoproCARE provides the dentist with the necessary tools to perform a complete and quick examination of the oral health of the patient.



- SOPROCARE illuminates dental tissue with a specific wavelength of light between 440 and 680 nm
- The exposed tissue absorbs the energy and reflects it in fluorescent form.
- Images obtained through fluorescence analysis are superimposed over the anatomic images, creating an easy to interpret and visible representation of the tissue's condition, which are otherwise invisible under white light.
- Utilizing the absorption properties of the 'blue light', the selective chromatic amplification differentiates the color of the tissue.
- The subtle hues of red indicate gingival inflammation and are now clearly revealed by SOPROCARE. All of the images are definitive and easy to interpret - just follow the colors!

SOPROCARE

Works with the following Docking Stations -

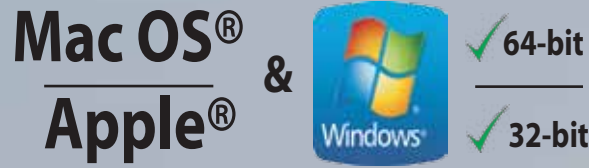


SOPRO Mini Dock U\_USB2



SOPRO Dock MU USB

Compatible with:



# Whatever your set-up, there is a SOPRO solution...

Compatible with:



## 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.

## SOPRO Mini Dock U\_USB2

Our newest docking station, the Mini Dock U\_USB2 is designed for use with all SOPRO cameras. It does not require a power supply due to the power being sourced from the computer through the USB cable.

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 dental unit flex arms.

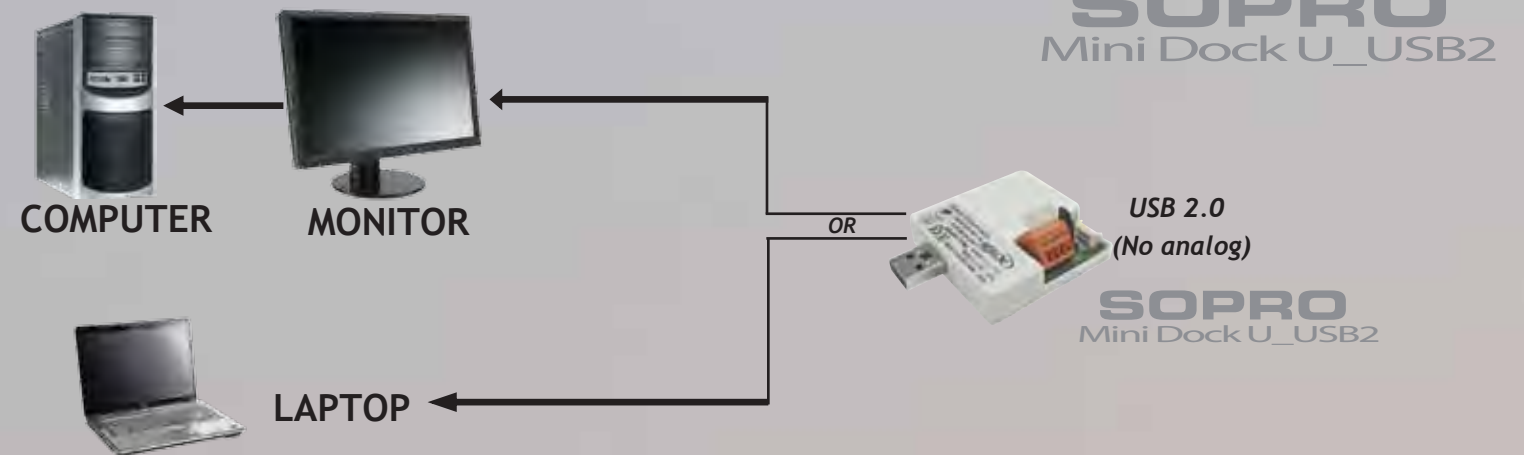
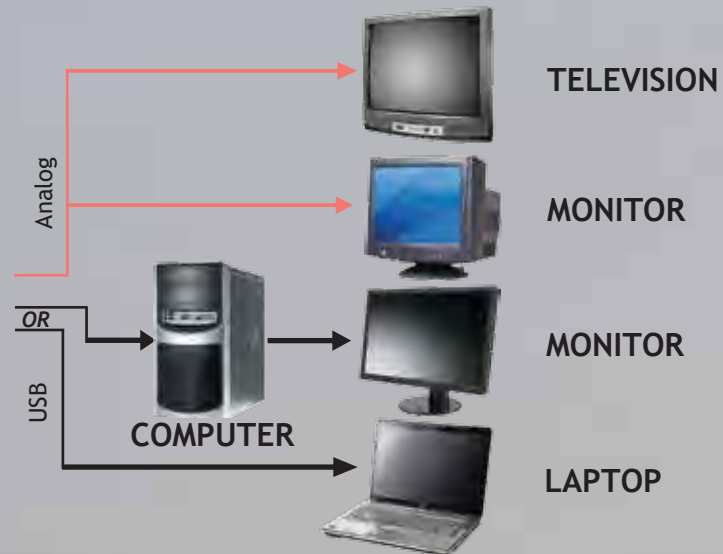
Its design is compact, lightweight and easily installed into A-dec's 500 or 300 chair and delivery system. Capturing images can be configured to optionally use the camera handpiece or the chair's foot control. The kit contains the docking station as well as all required cabling for successful integration. Please note that some operator configurations may require an active USB 2.0 extension cable to reach the host PC, not sourced by A-dec.



## SOPRO Dock MU-USB

S-Video / Composite  
USB 2.0

## SOPRO Dock MU-USB



## SOPRO Mini Dock U\_USB2

USB 2.0  
(No analog)

## SOPRO Mini Dock U\_USB2



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 or laptop.

The Mini Dock U\_USB2 is the ideal docking station when you wish to connect your SOPRO camera to a computer or laptop 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<sup>First</sup>

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)  
 Non-inverted image .....



# SOPRO LIFE

Light Induced Fluorescence Evaluator

High sensitivity 1/4" CCD.....  
 Resolution .....(752 x 582) PAL; (768 x 494) NTSC  
 Lighting: .....8 LED (4 white, 4 blue)  
 Adjustments: .....4 preset positions  
 (Extraoral, Intraoral, LIFE, Macro)  
 Freeze Frame .....with SoproTouch or pedal (option)  
 Angle of view .....70°  
 Cable Length .....2.5m / 8.2'

#### Dimensions of the handpiece:

Handpiece size .....0.9" x 1.1" x 7.8" (HWL)  
 Weight .....78g / 2.75oz



# SOPRO CARE

High sensitivity .....1/4" CCD  
 Resolution: .....(752x582) PAL; (768x494) NTSC  
 Lighting: .....7 LED (4 white, 3 blue)  
 Adjustments: .....4 pre-set positions(Extraoral, Intraoral, Tooth, Macro)  
 Freeze frame .....with SoproTouch or pedal (option)  
 Angle of view .....70°  
 Cable length .....2.5 m

Dimensions of the handpiece in mm .....L. 200 x W. 30 x H. 24  
 Dimensions of the useful part .....L.13mm x H.8mm  
 Weight .....78g



# SOPRO Mini Dock U USB2

Storage .....Computer software dependent  
 Power supply .....USB2  
 Power consumption .....Typical power: 2.5 VA  
 One output .....One digital USB 2.0 input

#### Dimensions of the Dock:

Height .....30 mm / 1.18"  
 Width .....48 mm / 1.88"  
 Length .....48 mm / 1.88"  
 Weight .....22 g / 0.91oz



# SOPRO Dock MU USB

Storage .....One or four images  
 Power supply .....24v ; 50Hz - 60Hz  
 Power consumption .....10 VA  
 One video output .....PAL or NTSC  
 One 5-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

Compatible with:

Mac OS® &  
 Apple®



✓ 64-bit

✓ 32-bit



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