

image maker



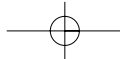
SOPRO 717

The camera that sets the tone



SoproShade
concept





SOPRO 717

Advanced design and technology

Peerless Design



One of the major advantages of the Sopro 717 is that the distal part is extremely fine. Its design, innovative look and restraint all mean that it fits perfectly into all working environments without disrupting the way you are used to doing things.

Unmatched image quality



A highly sophisticated optical unit and high quality electronics which have been developed around a 1/4" CCD mean that the Sopro 717 can offer you exceptional image quality.

From Macro to Infinite



Whatever the selected position is, the image becomes clear in a moment thanks to the very large depth of field the Sopro 717 is offering you.

3 pre-selections available by clicking: macro (1 to 5 mm), intra-oral (5 to 30 mm) and extra-oral (30 mm to infinity).

Optimised lighting



Optimise your images under all circumstances thanks to a lighting system using 8 new generation LEDs which supply 50% more light than conventional LEDs.

Digital video output

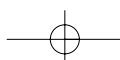


In addition to video and S-video outputs, the Docking station has a USB2 digital video output.

SoproTouch



Just press lightly on the SoproTouch located on the hand piece to freeze the selected image on your screen





When

Dentists have to choose colors every single day: color selection requires the dentist to have scientific knowledge

3 key factors to select the shade

1

The ambient lighting

The incident light must be neither too weak nor too strong (if there is not enough light, no colour will come out, on the opposite, too much light will erase the colours) but it must contain all of the visible waves so that the tooth can correctly reflect a part of the spectrum.

Artificial lighting: Dental lights, incandescent lamps and neon lights with a narrow spectrum provide a light which is totally unsuitable for distinguishing shades (colour T° between 4000 and 5500° K). The ideal thing being normalised lighting (e.g. Gamain whose colour T° of 6500° K is close to that of daylight).

Natural lighting: Gives much better results but varies during the day and depends on the atmospheric conditions. The optimisation of a shade selection should be carried out in front of a north-facing window with a slightly cloudy sky and preferably around 11 a.m.

2

The dentist

His own perception, his visual fatigue (he will be less able to make good choices at the end of the day), his experience (sticking closely to a procedure optimises the reliability of the choice) must be taken into consideration.

3

The surgery environment and patient

The colour of the surrounding walls but also the interfering bright colours of a scarf, a lipstick, of clothes as well as the appearance and the state of the teeth which should always be observed in a damp environment are factors influencing the shade selection.

With a single click, you can transform your intra-oral camera into a tool which will help you make your selection



These are all factors which can distort the final choice of a shade to the point that recently a number of automatic systems which take the place of the human eye have appeared. However, these systems are still very expensive, they are rarely easy to use, how reliable they are is open to question and they are not used in many dentists' surgeries.





an Image meets Color

ceramics, composites or prosthetic teeth. This may appear very simple but it actually
 requires a practised eye and he must also stick to a very specific procedure in order
 to obtain a satisfactory result.

Sopro, the world leader in dental imaging has placed its know-how at your service and is now offering the SoproShade concept. By combining a shade selection function with the Sopro 717 intra-oral camera, we can now offer you a unique product. Now you can really use your camera to help you make your shade selection.



The camera's eye

The camera has greater resolving power than the eye in terms of hue. The eye is able to perceive around 2 million colors when the camera can perceive around 16 million. So it is far more easily able to show up any small differences in colors thus facilitating the elimination process during the selection of the shade.

In the same way, the camera's enlargement power makes the job a lot easier and allows a better appraisal of the results obtained.

Optimised lighting

Tip: You will be surprised by the ergonomic, innovative design of the autoclavable tip which is clipped onto the head of the camera like a mask. Thanks to the mouthpiece with which it is fitted, it prevents the camera from slipping, making it easier for you to work and speeding up the shade selection process.

Waveguide: This tip contains a sophisticated waveguide developed exclusively for this product and which seals you off from the outside environment and brings the light in so that it is distributed evenly over the tooth, thus doing away with any highlighting phenomena. This gives you even light and an environment which is always exactly the same.



The Dentist remains at the heart of the system

Unlike the tools mentioned above, the SoproShade concept does not in any way replace your own know-how. You are still the star of the show. You keep the same tools and the same procedure - all SoproShade does is to help you and to make your choice more reliable.

The clinical studies

We have carried out studies showing that SoproShade is at least as accurate as existing systems but that, on the other hand, it is much easier to use, much quicker and, above all, it is much less expensive and takes up far less space as it comes free with the Sopro 717.

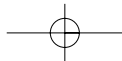
Communication

With your patient: The patient will be able to follow the various stages and see the reasons behind your selection. You will be able to discuss this with him opposite the screen showing his tooth and the chosen shade. Your patient is involved in the choice and confirms your selection.

With your laboratory: The SoproShade concept is also an excellent tool for communication with your dental laboratory as it allows you to send the result of your selection as well as the different elements necessary for the making of the prosthesis to it directly on its computer.




*Patented device.






A 4 steps function




Step 1: Place the camera in the **SoproShade** position . Place the tip of the camera against the vestibular side of the tooth, so that the latter's incisal edge is locked into the groove on the stabilising part of the camera.

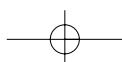


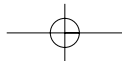
Step 2: Once you are satisfied with the image shown on the screen, you just have to freeze it by gently pressing the **SoproTouch** . The left-hand side of the image is memorised in the camera's docking station. If this image is not suitable for your purposes, all you have to do is lightly press the **SoproTouch**  again to take a new one.

Step 3: Place the camera into the **SoproShade** position . Take your colour chart and position the camera so that you can film the samples whilst sticking to the colour chart manufacturer's recommended procedure. The comparison needs to be made on the central region of the colour chart's sample 1/3 of the way up the middle of the tooth.



Step 4: Once the result obtained is as close as possible to the tooth's natural colour, all you have to do is lightly press the **SoproTouch**  again to freeze this image.






SOPRO 717

Specifications

SOPRO 717

- High sensitivity 1/4" CCD
- Resolution: (752x582) PAL; (768x494) NTSC
- Definition: 470 lines
- Sensitivity: 2 lux
- Lighting: 8 LED
- Adjustment: 3 pre-set positions (Extra-oral, Intra-oral, Macro)
- 2 **SoproShade** positions
- Non-inverted image
- Freeze Frame with **SoproTouch**  or pedal (option)
- Angle of view: 70°
- Cable length: 2,5m

- Size of the handpiece:
L.200 mm x l.28 mm x H.24mm
- Size of the distal part: l.13mm x H. 8mm
- Weight: 75g

DOCKING STATION

- Storage of one or four images
- Power supply: 115V-60Hz & 230V-50Hz
- Power consumption: 9VA
- One PAL or NTSC video output
- One PAL or NTSC S-video output
- One digital USB2 output
- Size of the dock:
L.145mm x l. 130mm x H. 35mm
- Weight of the dock: 245g

