





Complete evaluation of the ocular surface and dry eye management





Corneal Topography including keratoconus screening and pupillometry



Progression reports for analyzing treatment efficacy



Comprehensive suite of Dry Eye assessment tools



Patient-friendly with fast acquisition



Compact and easy to operate

Description

JoystickOne-click acquisition

OS1000 is built with a precise smooth and high-quality joystick. Images and movies can be captured instantly and conveniently by pressing the joystick button.



Left/Right automatic detection

OS1000 automatically recognizes the right and left eye, allowing an even faster diagnosis of the ocular surface.



Specification

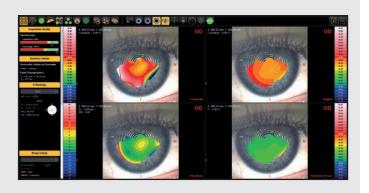
Rings	24		
Measured points	8760		
Camera resolution	5 Megapixel		
Photo resolution	2592×1944 JPEG format		
Upscaled analyzed image resolution	23 Megapixel		
Acquisition mode	Single shot, multishot, video		
Focus	Manual focus		
ISO management	Variable		
Image color	Colours - Infrared (IR)		
Lighting source	Infrared led – White led – Blue led		
Working distance	60 mm - 90 mm dal centro del placido		
Output 1	USB 3.0		
Electromagnetic compatibility (EMC)	IEC 60601-1-2 (2015)		
Supply voltage	24 V		
Device operating voltage	24 V – 5V		
Dimensions	40 cm (L) x 60 cm (A) x 45 cm (P)		
Weight	12 Kg		

Package contents

OS1000	ICP Software
BasePlate and Chinrest	Power supply
Calibration sphere	

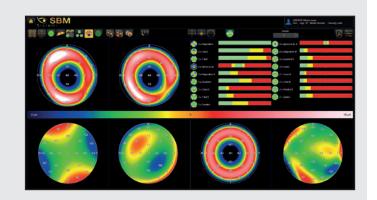
Topography

- Axial / Tangential / height / Fraction
- CL fitting simulation
- Keratoconus screening
- Corneal aberrometry
- 3D images
- Aberrometry
- Zernike
- Comparing



Aberrometry analysis (Zernike)

Zernike analysis of the topographic data provides the Optical Path Difference (OPD) and information on astigmatism, spherica aberrations, higher order aberrations and Coma for pupil sizes of 2.5 mm to 7.0 mm

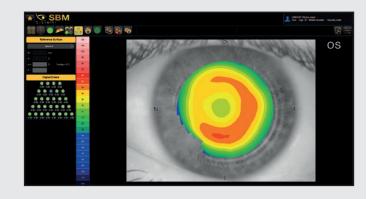


Zernike Analysis

Zernike polynomials are adapted to the elevation data of the cornea, which is crucial for locating the apex.

The apex position is labelled with a cross. This display shows you if a rear surface toric lens is applicable to the particular case. Zernike polynomials and and the aberration coefficient give you important indications of the imaging quality of the corneal surface.

Abnormal values are marked in colour.



Comparing Exams

The "comparing three examinations" display shows changes over a certain period of time, e.g. the progressive

course of disease of keratoconus. Choose between sagittal and tangential curvature and between elevation data and refractive power.

Use the "comparing two examinations" display for a right/left or before/after comparison.

The easy-to-understand displays help you describe even complex contexts to your patient.



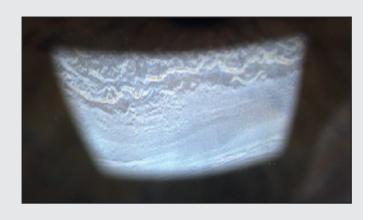
Automatic interferometry

Thanks to the anterior illumination module, OS1000 can aquire the lipid layer secrection on the cornea.

Automatically evaluates the quantity and quality of the lipid component on the tear film.

The device highlights the lipid layer and the software analyses automatically Lipid Layer Thickness (LLT).

plus subjective • Full automatic

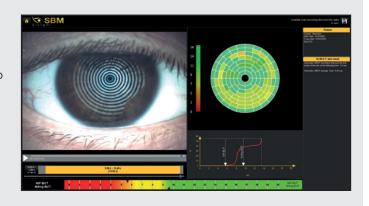


Automatic NIBUT

The stability of the mucin layer and the whole tear film is assessed through the study of non-invasive break up time (NIBUT), by using the Placido cone projected onto the cornea. Tear film stability automatically evaluated without fluorescein:

- First NIBUT
- Average NIBUT
- NIBUT Map
- TF dinamic graph

plus · full



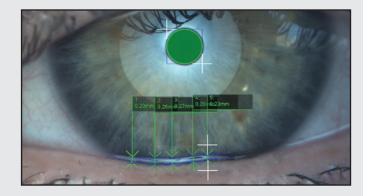
Automatic tear meniscus height

The thickness of the tear meniscus that is observed on the eyelid margins provides useful information on the tear volume. The tear meniscus can be examined considering its height, regularity and shape.

An artificial intelligence determinates automatically:

- Position of tear meniscus
- Highest value in TM

plus subjective • Full automatic



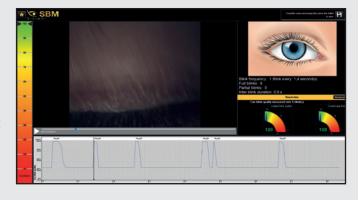
Automatic Eye blink quality

It has been established that efficient blinking plays an important role in ocular surface health including during contact lens wear and that it improves contact lens performance and comfort.

Eye blink analysis can be performed on a dedicated video or on interferometry video to know automatically:

- Blink frequency
- Partial blink (Fundamental for MG understanding)

full



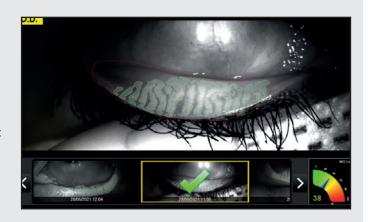
Automatic Meibography

Meibography is the visualization of the glands through illumination of the eyelid with infrared light. It images the morphology of the glands in order to diagnose any meibomian gland drop out which would lead to tear dysfunction.

Using IR illumination OS1000 can automatically detect:

- Lid area
- Meibomian glands
- Drop out

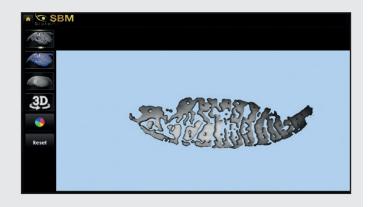
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3D Meibography

This new imaging system provides strong evidence to support the choice of a specific therapy (for example IPL treatment) and helps the patient to understand why a certain therapy is being recommended.

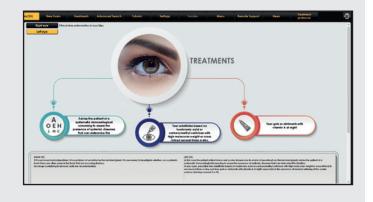
plus · full



Automatic dry eye treatment suggestion

The unique integrate algorithm, developed by MD. Luca Vigo, can provide a dedicated treatment approach based on the results of the analysis.

plus · full



Dry eye follow up

Is the only application on the market that allows the doctor to transfer the data of the tests carried out for the evaluation of the dry eye on the smartphone of his

Healthcare apps have transformed the field of the medical line into the digital mode with more and more healthcare-related services are rapidly changing to boost information and treatment using varied digital technologies.

plus · full



Efron / CCLRU / Jenvis

Comparative tables

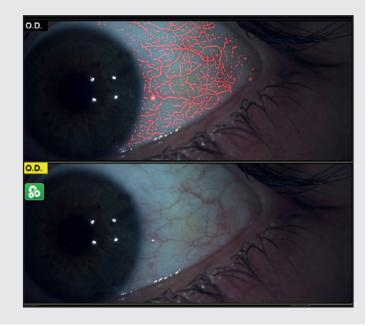


Bulbar redness

Acquiring an image of the conjunctiva, it will be possible to compare the patient's condition with different international grading scales.

Once the image of the conjunctiva with its blood vessels is captured, it is possible to compare it with the classification sheets of bulbar and limbal redness degrees.

full



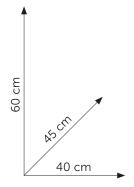
Dynamic pupillometry and WTW

Evaluation of corneal diameter from limbus to limbus (white-to-white distance, WTW).





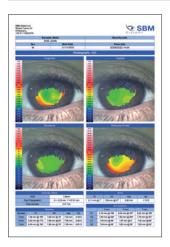


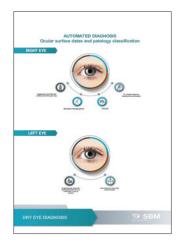


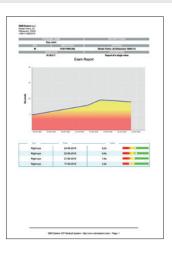
Multiple reports available

The software is a dedicated platform for dry eye and allows, in addition to helping in the diagnosis and classification of diseases, to print and save various medical reports, offering the most professional and clinical solutions to patients. For customer satisfaction, it is often advisable to provide technical documentation relating to the exams taken. Thanks to the various print reports of the Sbm device, you will have the possibility to visually explain and simply demonstrate the pathology situation. Furthermore, it's possible to explain how the pathology has changed over time.











OS1000 versions	basic	plus	full
Topography Map	yes	yes	yes
Comparison Map	yes	yes	yes
Axial map	yes	yes	yes
Tangential map	yes	yes	yes
Refraction map	yes	yes	yes
Differential map	yes	yes	yes
Corneal height map	yes	yes	yes
Pupillometry	yes	yes	yes
White to white measurement	yes	yes	yes
Keratoconus screening	yes	yes	yes
Contact lens fitting simulation		yes	yes
NIBUT		yes	yes
Meibography		yes	yes
Smartphone App "Dry Eye Follow-Up"		yes	yes
Wizard procedure		yes	yes
Treatment protocol section		yes	yes
Interferometry		manual	auto
Tear Meniscus		manual	auto
Blink Quality			yes
Blepharitis			yes
Ocular redness classification			yes



Quality and innovation

With our continued expansion we are committed to providing best-in-class products that can meet our rigorous quality standards.

We offer the widest coverage across varied markets backed by more than 30 years of experience in the ophthalmic sector.

Excellence is our watchword and we remain at the leading edge, searching for innovative, high-quality quality ophthalmic products as well as diagnostic and treatment options.

Our ultimate aim is to enable our customers to produce the best treatment outcomes for patients and we do this by helping ophthalmic physicians and clinics with the provision of quality products, a strong service orientation, and a suite of educational services.





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