



I.C.P. MGD

Analysis Meibomian Gland Disease

Dedicated dry eye clinic

Is an integrated diagnostic platform easy to use for anywhere and anytime.
Connection to the most common telemedicine systems.



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➤ I.C.P. MGD

Microsoft version by
plug cable connection
IOS version by Wi-Fi
connection

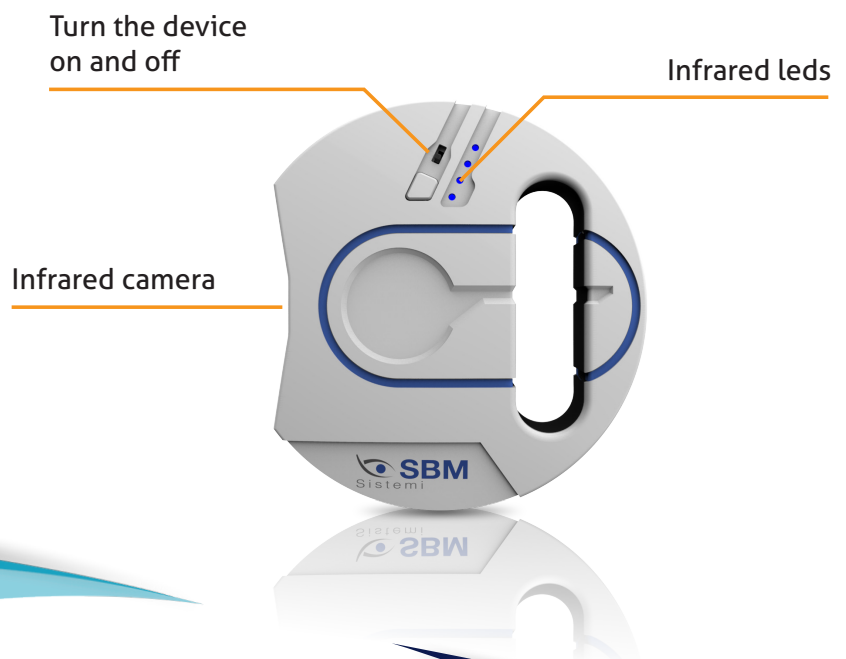
AUTOMATIC DETECTION MODULE AREA OF MEIBOMIAN GLANDS

ICP can, in case of a good quality of image, in a guided way detect the length and width of meibomian glands imaged by infrared meibography without requiring any input from the user.

The images are then automatically classified.

Technical data

TPOLOGY	Device for evaluation of the meibomian glands
CAMERA	Coloured, sensitive to infrared (NIR)
RESOLUTION	8 MPx
LIGHT SOURCE	Infrared LED
PART EXAMINED	Upper and lower eyelids
RATING	Calculation of the extension percentage in the glands detected through selection made by the operator or with recognize in a guided way Calculation of percentage of missing glands
GRAPHIC RESULT	Coloration absent area and present
TOOLS	Editor to highlight the area of the glands to be evaluated
OPERATIVE SYSTEM	For iPad II, iPad, iPad Pro - For Windows System





Through an acquisition of images, or by infrared camera, it allows the evaluation of the gland.

The criticality is made through five-level scale. The evaluation scales are an essential instrument for the registration and for the clinical monitoring of the modifies to the ocular tissues.

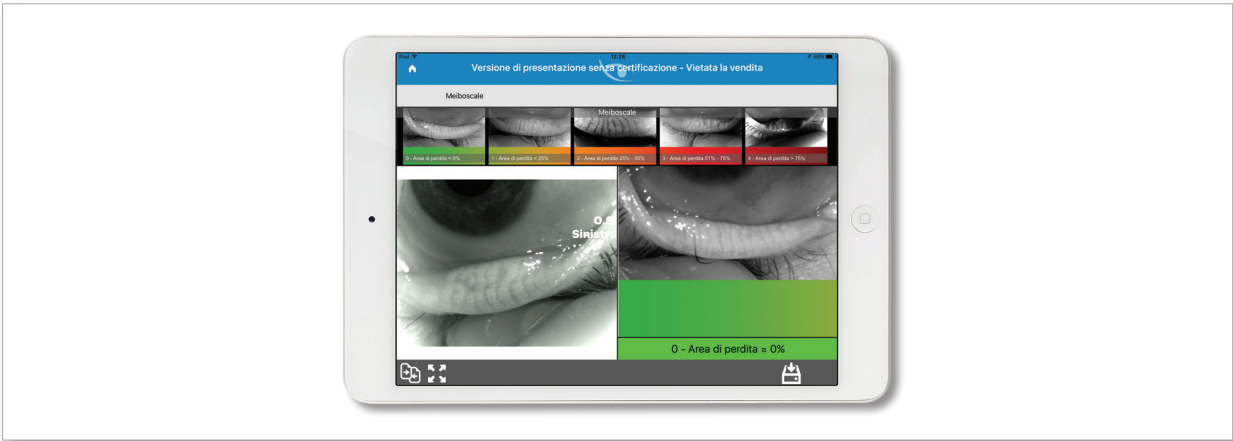
These scales are used to evaluate the gravity of a wide range of conditions, included those associated to the contact lenses.

The dysfunction of the Meibomian Glands (MGD, Meibomian Gland Dysfunction) is caused by a chronic alteration of the sebaceous glands that are located inside of the eyelids.

Thanks to the modular double LED illumination, the image will result ever without reflections and side effects. The instrument has the possibility to be used in a portable way or like fixed instrument in your clinic, exploiting a support that you can insert inside the hole of the tonometer on the slit lamp.

System analysis of the images obtained through a sensitive infrared camera (NIR) in order to locate in a guided way

- The position detected from the image, valid both for the superior both for the inferior part of the eye
- Calculating percentage of the extension in area of the present glands, taken by the operator
- Calculating percentage of the area of the missing glands
- Absent and present coloring area
- Classification in 4 different degrees
- Loss between 0 and 25%
- Loss between 25 and 50% in yellow
- Loss between 50 and 75% in orange
- Loss between 75 and 100% in red
- Through the editor system is possible to modify the brightness of the picture for a better evaluation.



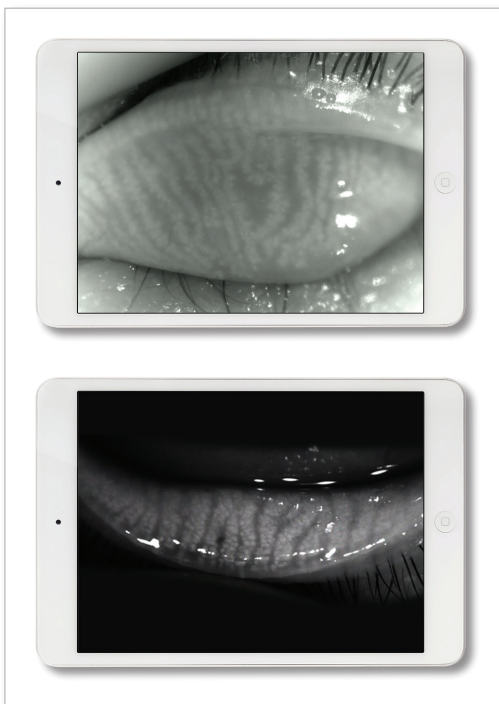
INTENSIVE PULSED LIGHT

An outstanding diagnostic evaluation is needed to demonstrate to the patient the effectiveness of the IPL treatment.

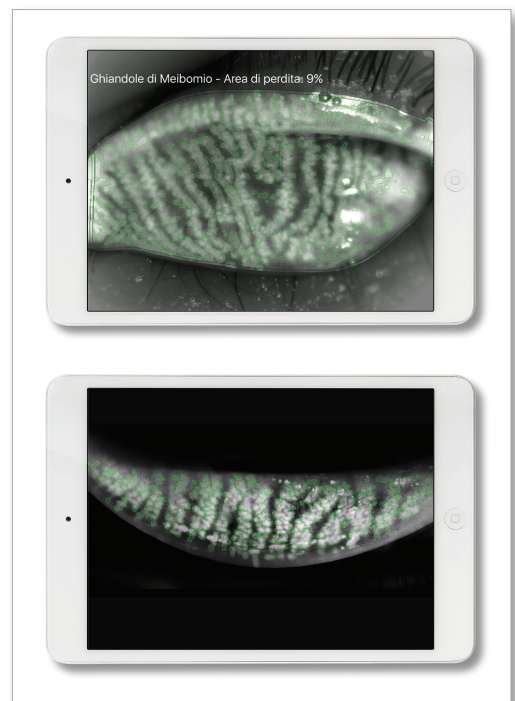
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The analysis of the glands happens in an automatic way thanks to the advanced recognition software that studies the eyelid through the use of dedicated filters in real time after the acquisition.



In a few seconds the instrument allow to take photo with 8MP resolution in infrared vision making visible in every environmental condition the presence/absence of the glands on the eyelids.

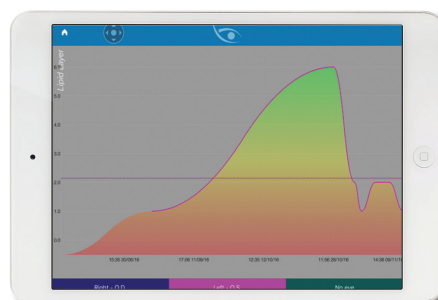


Meibomian gland dysfunction (MGD) may well be the leading cause of dry eye disease throughout the world

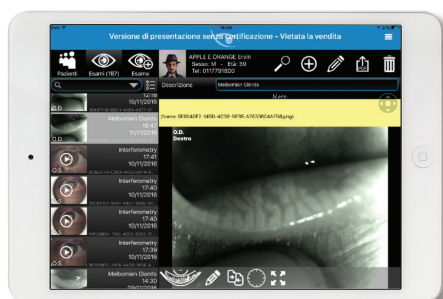
Meibomian gland dysfunction (MGD) is a chronic, diffuse abnormality of the meibomian glands, commonly characterized by terminal duct obstruction and/or qualitative/quantitative changes in the glandular secretion. It may result in alteration of the tear film, symptoms of eye irritation, clinically apparent inflammation, and ocular surface disease.



Interpretation and explanation to the patient



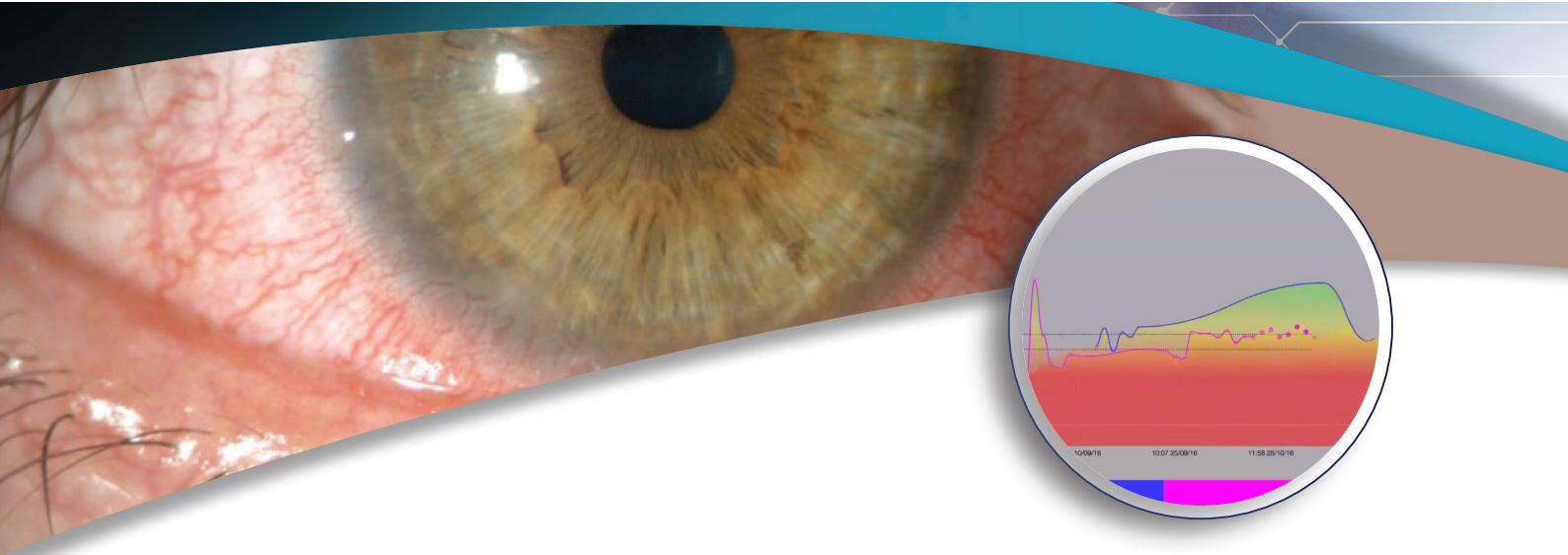
Graphic pre and post treatment with easy interpretation for the patient



These glands produce oily lipid substances that are released to the eyelid margins reaching the tear film thanks to eyelid winks.

Oily lipid substances floating on the surface of the tear film and needs to reduce evaporation. The MGD alters the lipid component of the tear film and this can cause the appearance of an evaporative dry eye with its characteristic symptoms.

In severe cases, the MGD can also cause inflammation of the eyelids called blepharitis rear edge.



New results and exams

These values have been grouped in a new section in the exam results screen with all these new values. All values from "Grading scales" were deliberately put together in a single section later providing the ability to filter the values seeing only those of interest (Redness, Staining, ...)

Meibomian Glands - Loss area: 38%

MGD

With all exams values of a given day.
Report with values and graph of a specific exam value

Date	Value Right Eye	Value Left Eye	Difference Value
14/09/2016 09:38	219.00 mOsm/L	289.00 mOsm/L	70.00 mOsm/L
14/09/2016 09:38	312.00 mOsm/L	325.00 mOsm/L	8.00 mOsm/L
13/09/2016 16:27	333.00 mOsm/L	289.00 mOsm/L	44.00 mOsm/L
13/09/2016 16:22	297.00 mOsm/L	266.00 mOsm/L	31.00 mOsm/L
13/09/2016 16:22	288.00 mOsm/L	288.00 mOsm/L	0.00 mOsm/L
13/09/2016 16:21	268.00 mOsm/L	269.00 mOsm/L	0.00 mOsm/L
13/09/2016 15:31	299.00 mOsm/L	299.00 mOsm/L	0.00 mOsm/L
13/09/2016 15:31	333.00 mOsm/L	333.00 mOsm/L	0.00 mOsm/L
13/09/2016 15:30	289.00 mOsm/L	310.00 mOsm/L	21.00 mOsm/L

Daily report

Eye	Date	Value
Right eye	17/10/2017 09:00	37 %
Right eye	13/10/2017 09:00	35 %
Right eye	06/10/2017 09:00	36 %

MGD

Values and graph of lost area



I Cloud

The system allows you to securely access all your data from iPad to PC and from PC to iPad.

- You will always have the most up-to-date version of your patients' data at the right time.
- From the iPad device you will have the ability to send all patient records and related exams, or parts of them to the Windows system.
- All patient examinations, or part of them, can be sent to the iOS device
- The system allows you to save space on the iPad, having the ability to only preserve patients who are going to be visited in portability
- Data storage
- share all information inside the clinic
- Possibility to receive exams from assistants all over the world for referral or sharing

Windows system

A practical personal archive to bring always with you and with the possibility to share the archive by Wi-Fi with the various ICP medical instrumentation

The electronic medical cart that includes:

- Essential patient registry
- Medical history
- Formula of the current therapeutic cycle
- Archive of images
- Report

With this module it is possible to manage the database of patient, his medical history, the medical examinations and their Follow Up. It follows that, through a unique screen, will be possible to visualize the whole clinical history of the patient and will be made all related prints.

The doctor has then, at the end of the visit, the possibility to print and deliver to the patient a report that presents only the data of the clinical cart that he considers appropriate, inserting also a textual discursive section. He can also choose to send these documents via email.

Multisite/multi iPad with synchronization between them to visualize all medical reports from a computer.

External memory to download exams when the memory of the various supports is finished.

Backup and recovery of the archive.

Working also in background.

Saving photo and video on FTP instead that on the device to safeguard the space.



The software functions present in all versions of the program

- Comparison of database's images
- Saving of images and movies comparing the situation before and post application
- Direct comparison with the taken images and the tables of Efron
- Direct comparison with the taken images and the tables of CCLRU
- Direct comparison with the taken images and the tables of Jenvis
- Possibility to point out and to show to your patient the pathology
- Evaluation of the visual acuity from a distance
- Evaluation of the visual acuity from close
- Show visually with the help of the iPad the difference between the use of the lac and the use of the ophthalmic lens
- Database dedicated and structured for the saving of the sensible data and of the made exams during the time.
- Technical follow up targeted to the LAC application.
- The electronic medical record with the essential registry of the Patient
- The medical history of the patient
- Optometric data
- Results of examinations
- Privacy management
- The archive of images and movies (photographs and radiographs)
- Test and results
- Follow up visits allowing the simultaneous visualization of images related the next visits. With this function is possible to evaluate the upgradability of the pathology through direct comparison
- Reporting and printing



Registration made
in the following extra
cee countries



Medical certificate

All SBM Sistemi medical products are marked EC under the Medical Device 93/42 / EEC Directive and also conform to a set of international standards as applicable.

However, the interior of the medical commitment SBM Sistemi for product quality goes beyond the adherence of internationally recognized standards and extends in the attitude of our highly skilled production staff and the quality dedicated team, who are always aware the fact that the products they manufacture are used to save lives in critical care applications both locally and worldwide.

ID registration BD/RDN

I.C.P. IOL registration number at the Ministry: 1340867/R

I.C.P. SLIT LAMP registration number at the Ministry: 1340861/R

I.C.P. SLIT LAMP PLUS registration number at the Ministry: 1340862/R

I.C.P. TEARSCOPE registration number at the Ministry: 1340864/R

I.C.P. MEASUREMENT registration number at the Ministry: 1340865/R

I.C.P. OSA registration number at the Ministry: 1556084/R

Furthermore all devices are certified CE and are accordant to the European regulations in force.

Electro medical test – photobiological test – etc

ISO 13485 Quality Management System for Medical Devices

ISO 13485 ISO 13485 is a quality management system standard specifically for the medical devices industry, which encompasses aspects of the ISO 9001 standard, plus additional industry-specific medical device requirements.

ISO 13485: 2003 has been harmonized against the three EU Medical Devices Directives (Medical Devices, In-vitro Diagnostic Devices and Active Implantable Devices), so certification to this standard by an accredited certification body such as ECM automatically demonstrates compliance with specific clauses in these directives.

The certification of a quality management system, specifically for medical devices, to ISO 13485 is essential, for medical companies which export their products to the global market. In the European Union, the fulfilment of EU Directives (e.g., Active Implantable Medical Devices Directive, Medical Devices Directive and In Vitro Diagnostic Directive) allows the free trade of medical devices. A significant portion of demonstrating compliance with the EU directive requirements is the establishment and independent assessment of the quality system.

uni en iso 9001:2015 Nr. 8631/0
uni cei en iso 13485:2012 Nr. 8632/0



*“Unlike words, and their interpretation,
the image is a neutral constant a benchmark
reference frozen in time.*

*It becomes the quintessentially unbiased witness
to the condition at the moment of capture”.*

History

The SBM was founded in 1984. The core activity of the new company is to produce software for optical centers.

The territorial development begins with the opening of new distribution facilities on the Italian territory, especially to offer services and assistance. In the '90s, the company began its real growth path that is still the main goal for the future.

Thanks to large investments and sacrifices in those years began working for production.

Later in time also starts working as a provider of information technology services and optics and ophthalmology instrumentation.

After more than twenty years these services are still carried out at the office of our customers or our operating offices on the Italian territory and abroad.

The experience achieved over the years with important and prestigious brands allows us to be present on the market as a serious and reliable partners for Strategic Outsourcing services or part of them.

Production

A good product must be made from a precise projecting including a careful materials choice. The final difference consists in availability of personalized solutions for every need.

SBM Sistemi customers have a complete post-sale support. Any request related to the software is solved with remote assistance from local partners or directly by the SBM company. Any need related to the hardware can be managed by our local partners all-over the world that, in constant contact with SBM company, have the opportunity to ship the instrument for complete check-up.

All SBM Sistemi products are realized with hi-precision by factory technicians. Pre-sale checks and verifications consist in 24 hours non-stop test session to ensure the quality of the components. Only after this task an instrument can be packaged and considered ready for delivery.



OUR PROJECT IN TELEMEDICINE

We are working for an innovative web tele-diagnostic application dedicated to the world of Vision. The mission is to make easily available rapid reporting of the main Ophthalmological diagnostic tests, according to the European laws about sensitive data protection.

This service will offer expertise and professional skills of a huge number of Ophthalmologists. Physicians will report only exams acquired by Sbm and other systems that are selected diagnostic centers really easily accessible by patients.

The reporting will be granted within 72 working hours after acquiring data, although statistically, thanks to Ophthalmologists' professionalism and cooperation, the report will be performed within 24 hours. The project's goal is to even reduce this timing in order to provide to the patients a fast, safe and effective eye care service. The spread out of this diagnostic network will allow patients to get the nearest doctor in order to access immediately to a diagnostic service and a skilled Specialist reporting without any waiting list and at a convenient price.

The web-application is written in dynamic multilingual, translated into the main foreign languages, in order to allow an international use, anticipating the recent European Community provisions about health care. Finally, the patient will have the opportunity to save all his exams on his personal account without any loss or damage risk. By the use of a free mobile app (compatible with iOS, Android and Windows Mobile), the patient will also be able to share his exams with his Family Doctor or ask for a second opinion to his Ophthalmologist.

The website has been developed with the latest IT technology, ensuring technical reliability and operational safety in the management and storage of data and guarantee of privacy in compliance with current legislation.

Customer Focus

- Clinical studies and presentations
- Congresses
- E-Marketing
- Customer relationship - marketing actions
- Continuous trainings
- Technical specifications sheets
- Magazines and advertisements
- Symposiums
- Web 3.0
- Social networks (Facebook, Twitter, YouTube)

Accessory

Complete holder for MGD



Foot pedal USB USB connection



Table



Briefcase



Bags, resistant material to large stresses, have the particularity to be watertight with IP 67 impermeability and the perfect seal for liquids and dust, this is ensured by a rubber seal along the entire closure profile; is also present in all models a balancing valve of the internal and external pressure. Customizations are possible such as bespoke interior, screen prints or stickers.

Battery



POLYMER CELLS
More thin and more light

ULTRA-LIGHT
It weighs only 72 grams

INPUT
5V DC 1000MA



HOLDER
Holder for 4 x AA type batteries

Holder for refraction unit

Usable on any slit lamp graft
the tool support the analysis of
meibomian glands, tearscope etc



DEALER