

DTY Optical

flexible solutions you can trust

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Quick - Accurate - Non-invasive

 **SBM**
Sistemi

DEDICATED DRY EYE PLATFORM

Integrated and easy to use
diagnostic platform

Safe and effective

IDRA FASTER THAN EVER

With only 15 seconds of acquisition
in fully automatic mode, you will get
the result of all the fundamental tests to
diagnose a dry eye syndrome



Mach 2022
ver. 1 - 2022

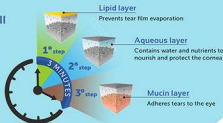
The evaluation of the tear film

The Devices are the new tools for the individual analysis of tear film allowing to carry out a quick detailed structural test of the tear composition.

Research on all the layers (**Lipid, Aqueous, Mucin**) and Meibomian Glands.

Thanks to the Devices it is possible to identify the type of Dry Eye Disease (DED) and determine which components can be treated with a specific treatment, in relation to the type of deficiency.

Evaluation of all tear film layers



The tests required for the diagnosis of the Dry Eye are well specified in the report of the DEWS II 2017 TFOS

The devices available

	A	B	C	D	E
Auto Interferometry test	✓	—	—	✓	—
Interferometry test	✓	✓	✓	✓	✓
Tear Meniscus height	✓ up to 5	✓ up to 5	✓	✓ up to 5	✓
Auto NIBUT	✓	✓	✓	✓	✓
Lacrimal topography map and stability chart	✓	✓	—	✓	—
Meibography	✓ auto	✓ auto	✓ auto	✓ auto	✓ auto
3D Meibography	✓	✓	—	✓	—
Eye blink detection	✓	✓	—	✓	—
Protocol	✓	✓	✓	✓	✓
Connection with patient App	✓	✓	✓	✓	✓
Report	✓	✓	✓	✓	✓
Lifestyle questionnaire	✓	✓	✓	✓	✓
DUT test - Staining test	✓	✓	✓	✓	✓
DEQS	✓	✓	✓	✓	✓
Pupillometry test	✓	✓	✓	—	—
Bulbar redness	✓	✓	✓	✓	✓

Devices description



Integrated system for the analysis of the ocular surface

Idra is designed to perform tear film tests, from the quality of tears to the analysis of the Meibomian Glands.



Integrate your Slit Lamp with dry eye module DEM 100

Switch your Slit Lamp into a complete dry eye assessment test. The new DEM 100 fitting on any Slit Lamp allows a complete Tear Film automated digital analysis. SBM Sistemi is now adapting customized solutions of imaging systems on Slit Lamps from various manufacturers, thanks to the experience gained in the instrumental, optical and digital fields.



Description Exams

Auto Interferometry

Exam performed by devices: A • B • D

The software 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).

Interferometry test

Exam performed by devices: A • B • C • D • E

The evaluation of the lipid layer is part of your overall Dry Eye Assessment. Knowing what is causing Dry Eye will help determine the best treatment option.

After your assessment is complete, the Optometrist will discuss your treatment options.

Tear meniscus

Exam performed by devices: A • B • C • D • E

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.

NIBUT with map and graph

Exam performed by devices: A • B • C • D • E

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.

Meibography

Exam performed by devices: A • B • C • D • E

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.

3D Meibography

Exam performed by devices: A • B • D

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.

Blink quality

Exam performed by devices: A • B • D

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.

Blepharitis

Exam performed by devices: A • B • C • D • E

This test helps to visually see blepharitis and presence of Demodex. It can be performed on the outer surface of the eye and eyelids.

Ocular redness classification

Exam performed by devices: A • B • C • D • E

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.

Pupillometry

Exam performed by devices: A • B • C

Measurement of the pupil reaction to light with and without glare. Measurement mode: SCOTOPIC, MESOPIC, PHOTOPIC

White to White measurement

Exam performed by devices: A • B • C

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

Anterior segment imaging

Exam performed by devices: A • B • C • D • E

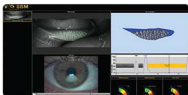
Auto interferometry

Complete meibo analysis: Structure and secretion view

Interferometry gets easy, quick and automatic.

The software automatically detects the colours and behaviour of the lipids on the patient's eye and determines lipid layer thickness (LLT).

In a few seconds it is possible to get automatically relevant data to understand functionality of Meibomian Glands such as average LLT.

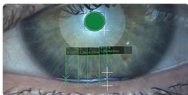


Tear meniscus height measurement

Low tear production may result in aqueous tear deficiency (ATD) and cause dry eye symptoms. However, measuring the tear volume is difficult since the methods normally used are invasive and irritating.

Reflex tear production can be induced, giving an over-estimation of basal tear flow and volume. The sizes of the tear meniscus are related to the tear secretion rate and tear stability, and they are good indicators of the overall tear volume. Tear meniscus height is related to the tear secretion rate and tear stability and for this reason it's a good indicator of tear production.

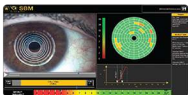
The aqueous layer is evaluated through the non-invasive "Tear Meniscus" test and is then classified into different categories.



Auto-NIBUT

The Devices allows to evaluate tear film stability and regularity, using non-invasive break up time measurement (NIBUT). This measures the number of seconds between one complete blinking and the appearance of the first discontinuity in the tear film. With the Devices, thanks to one single video, the physician can gain lots of information:

- Automatic NIBUT
- Average of more than one value
- Graph to understand the trend of tear film stability during the video
- Tear topography that shows all breaking the tear film during time.



Blinking quality

It is also well known that wearing contact lenses (both rigid and soft lenses) can induce significant changes in blinking rate and completeness.

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

Inefficient blinking during contact lens wear may be related to a low blinking rate or incomplete blinking and can often be a reason for dry eye symptoms or ocular surface staining. Automatically detects and analyses blinking, determining its quality.





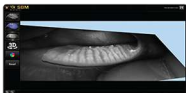
Meibography

Meibomian gland auto detection on upper and lower eyelids

Meibomian Glands (MGs) play a significant role in tear quality by producing lipids (meibum) that are part of the superficial tear film. Dysfunction of the MGs destabilizes tear composition resulting in evaporative dry eye.

Automatic lid detection

To decrease evaluation time, the software automatically detects the lid margin for MG analysis.



Meibography 3D

The revolutionary introduction of the 3D Meibomian Gland imaging gives two big advantages. Firstly, it enables to confirm the presence of abnormal glands compared to a healthy subject in a 3D view; secondly, it provides a clear image to share with the patients, to help explain the potential reason of their discomfort.

Moreover, 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.



Cylindrical Dandruff and Blepharitis

Blepharitis is an inflammation caused by some bacteria that lie at the base of eyelashes. They produce dandruff-like flakes in the skin, which lead to infection and inflammation.

Problems with the Meibomian Glands (meibomianitis) in the eyelids can also cause blepharitis.



MD. Vigo treatment suggestion

Ocular surface data and pathology classification

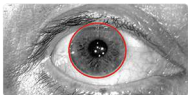
Thanks to Studio Medico Carones with MD. Luca Vigo's experience, IDRA includes a suggestion algorithm able to share a possible treatment approach for each patient.

All suggestions can be useful for diagnosis and treatment.

Other possible examinations

White to White measurement

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



Bulbar redness classification

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



Pupillometry

The measurement of the pupil diameter has become increasingly important in the field of refractive surgery.

Larger scotopic pupil sizes may be partially responsible for the occurrence of postoperative symptoms such as halos, glare, and monocular diplopia. Refractive surgeons also need an accurate scotopic pupil measurement to determine appropriate treatment zones for excimer laser, corneal, and intraocular surgery.



Comparison with the main international grading scales

EFRON - CCLRU - JENVIS - GLAUCOMA
TEST DI FELCIZZAZIONE - MEIBOGRAFIA



Report

Different 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.

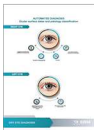
For customer satisfaction, it is often advisable to provide technical documentation relating to the exams taken.

Thanks to the various print reports of the devices, 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.



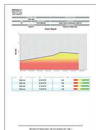
Complete report

Complete report with all results and pictures used to explain to the patient any dry eye category.



Treatment report

Patient oriented report explaining causes of pathology and recommended treatments.



Follow up report

For each value it is possible to show the trend line before/during/after treatment.



Daily report

Brief single page report to show at a glance all exams results.



Monocular report

To save and print only one exam.



Binocular report

To save in a single pdf the same examination of both eyes.



Wellness for your eyes

Long lasting relief for customer's eyes

Complete heating and massage technology

At SBM Sistemi we take the well-being of your eyes very seriously.

- This innovative Eye-mask provides a complete heating and automatic massage technology in a single device fast and painless;
- Easily sanitized and no gel or other disposable required;
- The service provided will offer better comfort in daily life for lens wearers, stressed eyes caused by heavy use of digital screens will become fitter with each eye service application.



Activa is a new business model generator

Increase customer satisfaction and save time and money.

The Activa benefits can also be enjoyed at home.

Customize number of sessions available for the rental period of your customer.



- Touch screen controller, user-friendly and easy to manage;
- Through a fully automated procedure the device is able to heat and massage lids providing the best comfort and relief;
- The complete procedure **takes only 15 minutes**; it can be offered simply by using a convenient chair without the presence of professionals;
- Relief from the first application, we recommend its use on a weekly basis.

Relieve tension symptoms and eye swelling

We suggest using Activa once a week for four weeks.

At the end of this first period, a session every two months is recommended to keep the benefits of the relief.

Activa:

- Can be used both in professional and domestic environments;
- Provides fast and long lasting relief from eyelid discomfort;



Are you using an IPL in your clinic?

As you may know, IPL patients are not feeling the effect of the treatment from the first application and meibomian glands heating and massage is an important procedure combined to the IPL therapy.

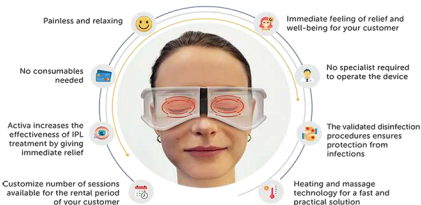
Including Activa in combination with the IPL effects will provide to the patient an immediate feeling of comfort.

Activa supports IPLs treatment efficacy and IPL patient's relief.



- Produce controlled heat contributing to unclogging the debris of the meibomian glands on the edge of the eyelids and softening the secretions;
- Relieves swollen and irritated eyelids due to blepharitis, meibomian gland dysfunctions, styes and chalazion;
- Generate constant heat of approximately 42 degrees for 15 minutes and apply a micro-vibration based massage to increase relief;
- The device is absolutely safe and there is no risk of burns.

Activa benefits



Activa APP

Help your team to simplify the work planning.

ACTIVA is supplied with software that can be used with the windows operating system, useful for the complete management of the patient and for scheduling appointments.



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 patient.

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.



Benefits of dry eye follow up

- Faster and easier doctor-patient interactive communication platform
- Accurate reports sharing and updates
- Getting guided treatments
- The primary criteria for a state-of-the-art medical app for doctors, physicians or specialists is to provide complete patient care solutions.
- With patient care medical app, it helps doctors in regularly scheduling appointments, interact with clinic/hospital, and keep track of the progress in a simplified manner.
- It creates a two-way communication and sends automatic reminders to patients and notifications to doctors.

Download



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