idra

Dedicated Dry Eye platform

Analysis on all tear film layers (Lipid, Aqueous, Mucin) and Meibomian Glands

- **Complete examination**
- **Comprehensive evaluation**

We design MADE IN ITALY and manifacture

November 2023
ver. 2 - 2023

Diagnosis

15 seconds

4 automatic results with a single 15 seconds acquisition per eye

Tear Meniscus thickness
Interferometry
NIBUT
Blink evaluation

Scan the QR code to

Watch the Fast Wizard video

Consult the Clinical study

Download the IDRA Atlas

SBM Sistemi

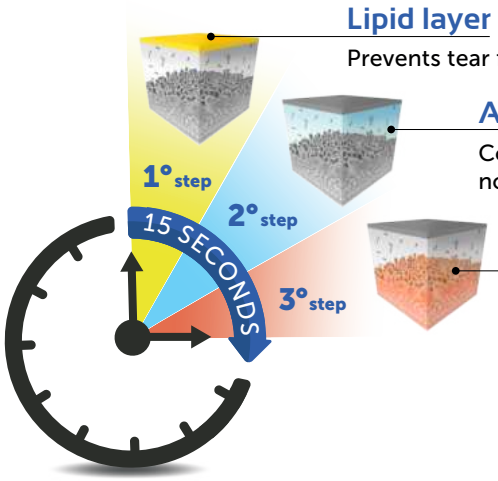
Ocular Surface Analysis – Dry Eye Suite

The fastest and most comprehensive Dry Eye suite

Idra is the innovative instrument for individual tear film analysis, enabling a rapid and detailed structural assessment of tear composition.

Evaluation of all the layers (Lipid, Aqueous, Mucin) and Meibomian Glands

With the SBM device, it becomes possible to identify the type of Dry Eye Disease (DED) and determine which components can be treated with specific, targeted treatments based on the identified deficiencies.



Lipid layer

Prevents tear film evaporation

Aqueous layer

Contains water and nutrients to nourish and protect the cornea

Mucin layer

Adheres tears to the eye

The tests essential for diagnosing Dry Eye are clearly outlined in the 2017 TFOS DEWS II report.

Idra Full allows the complete analysis using the guidelines in a completely automatic and objective way, providing the results automatically without operator intervention, thus making the analysis incredibly fast and easily delegated.

Diagnostic Tests

Screening	Homeostasis Markers
Symptomology (DEQ-5 ≥ 6 or OSDI ≥ 13)	+1 of: **Non-invasive** *(fluorescein) **Tear Breakup Time < 10s**
	Ocular Surface Staining >5 corneal spots, >9 conjunctival spots, or lid margin (≥2 mm length & ≥25% width)
	Osmolarity ≥308 mOsm/L in either eye or interocular difference >8 mOsm/L

*only to be used if NIBUT not available

Automatic NIBUT

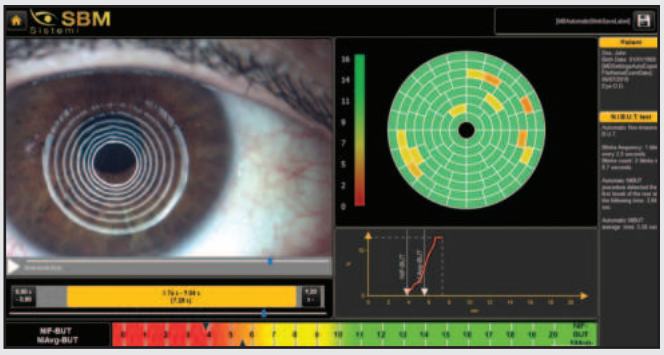
The SBM device allows to evaluate tear film stability and regularity, using non-invasive break up time measurement (NIBUT). It measures the number of seconds between one complete blinking and the appearance of the first discontinuity in the tear film. With the SBM Device, thanks to one single video, the physician can gain lots of information and tear film stability automatically evaluated without fluorescein:

- Automatic NIBUT

basic · plus · full

- Graph to understand the trend of tear film stability during the video.
- Tear topography that shows the breaking of the tear film during time.

plus · full



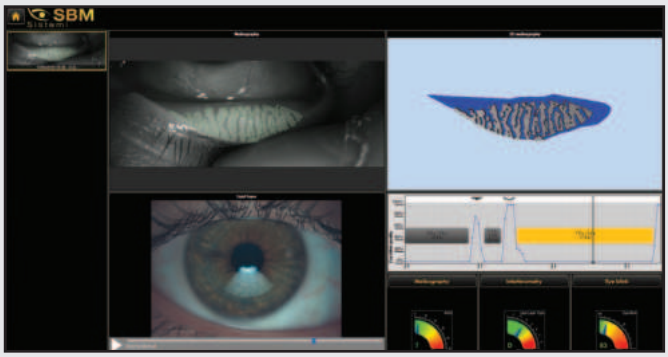
Ocular Surface Analysis – Dry Eye Suite

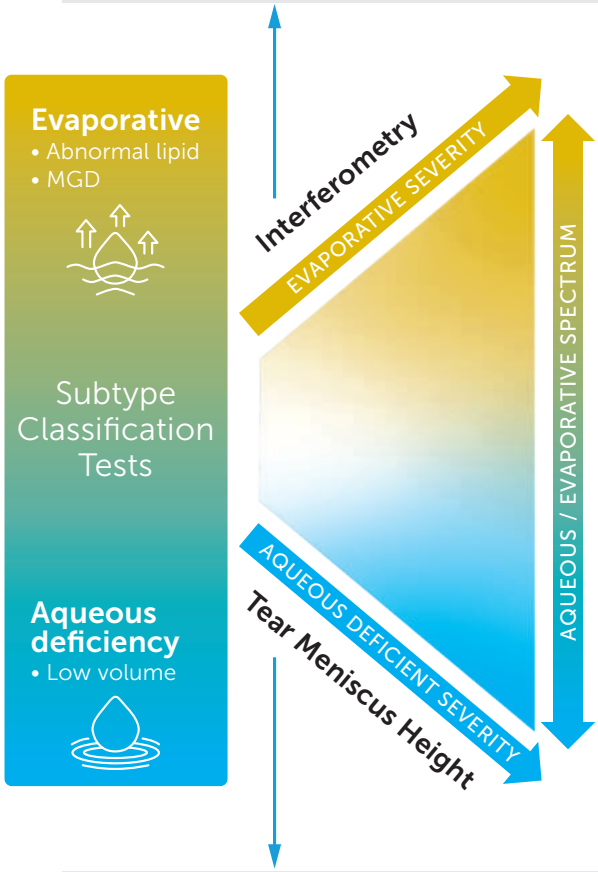
Automatic Interferometry

Thanks to the Interferometry technology, Idra can aquire the lipid layer secrection present over patient's cornea.

The device highlights the lipid layer and the software evaluates the quantity and quality of the lipid component on the tear film.

basic · plus subjective · full automatic





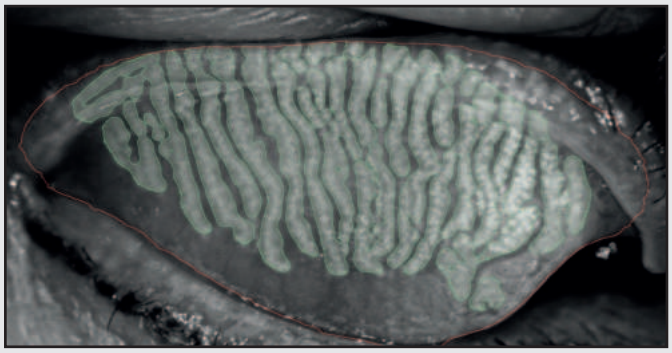
Meibography

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.



Automatic tear meniscus height

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.

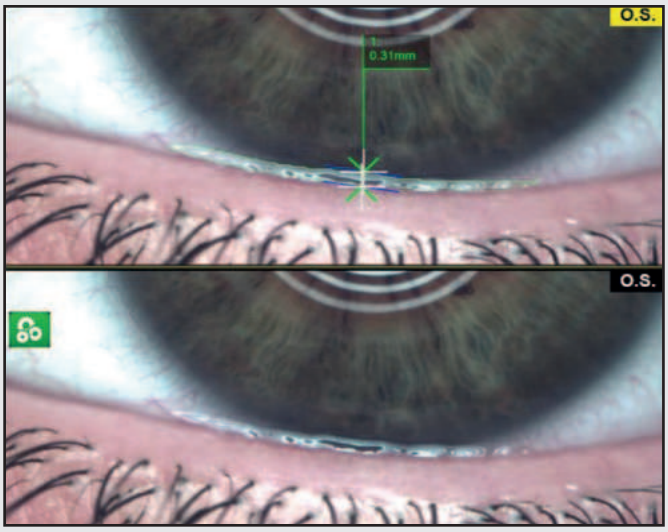
Tear meniscus height is related to the tear secretion rate and tear stability and for this reason it's a good indicator of tear production. The aqueous layer is evaluated through the non-invasive "Tear Meniscus" test and is then classified into different categories. The tear meniscus can be examined considering its height, regularity and shape.

basic subjective

An artificial intelligence determinates automatically:

- Position of tear meniscus
- Highest value in TM

plus · full automatic



Additional Dry Eye exams

Auto Blinking quality

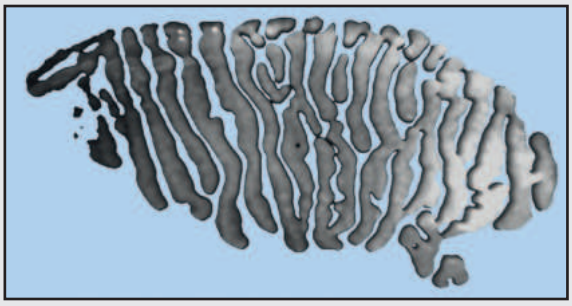
It is well known that using electronic devices and wearing contact lenses can induce significant changes in blinking rate and completeness, leading to MGD.
It has been established that efficient blinking plays an important role in ocular surface health during contact lens wear and that it improves contact 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, and determines its quality.

plus · full

Meibography 3D

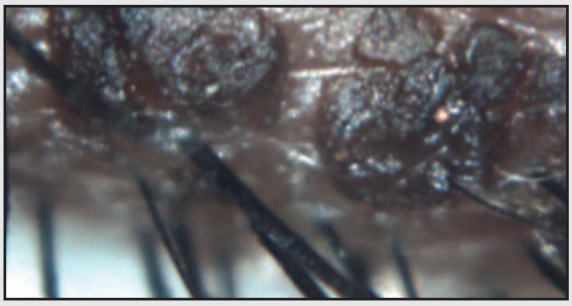
The revolutionary introduction of the 3D Meibomian Gland imaging gives two big advantages. Firstly, it enables to confirm the presence of abnormal glands compared to a healthy subject in a 3D view; secondly, it provides a clear image to share with the patients, to help explain the potential reason of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

plus · full



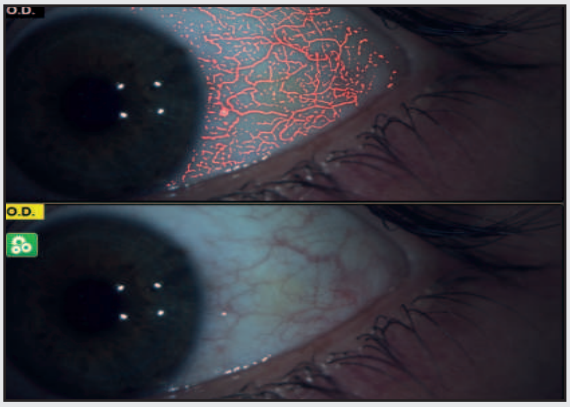
Cylindrical Dandruff and Blepharitis

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.



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 scales of bulbar and limbal redness degrees.



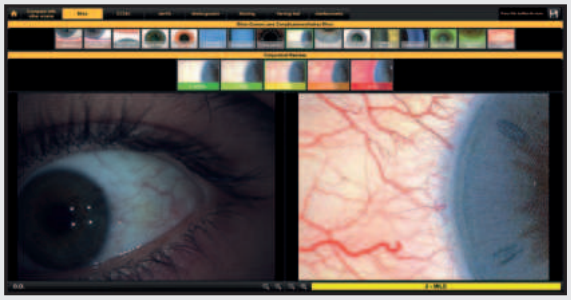
Demodex

Demodex brevis is a kind of mite found on the skin of humans.
D. brevis is so small that mites can't be seen macroscopically. The average mite causes noticeable reactions and problems in people largely infested. Symptoms of D. brevis usually only occur in case of large infestations.
Signs might include: Red skin, Rough or tough skin, Scaly or patchy skin. The symptoms of D. brevis are similar to those of D. folliculorum. The key difference is their location.

Additional exams

Efron / CCLRU / Jenvis

Comparative tables



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.

SBM Sistemi	basic	plus	full
Interferometry test	✓	✓	✓ auto
Tear Meniscus height	✓	✓ auto	✓ auto
Auto NIBUT	✓	✓	✓
Lacrimal topography map and stability chart	–	✓	✓
Meibography	✓	✓	✓
3D Meibography	–	✓	✓
Eye blink detection	–	✓	✓
Protocol	✓	✓	✓
Connection with patient App	✓	✓	✓
Report	✓	✓	✓
Lifestyle questionnaire	✓	✓	✓
Staining test	✓	✓	✓
DEQ5	✓	✓	✓
Pupillometry test	✓	✓	✓
Bulbar redness	✓	✓	✓

Dry Eye reports basic · plus · full

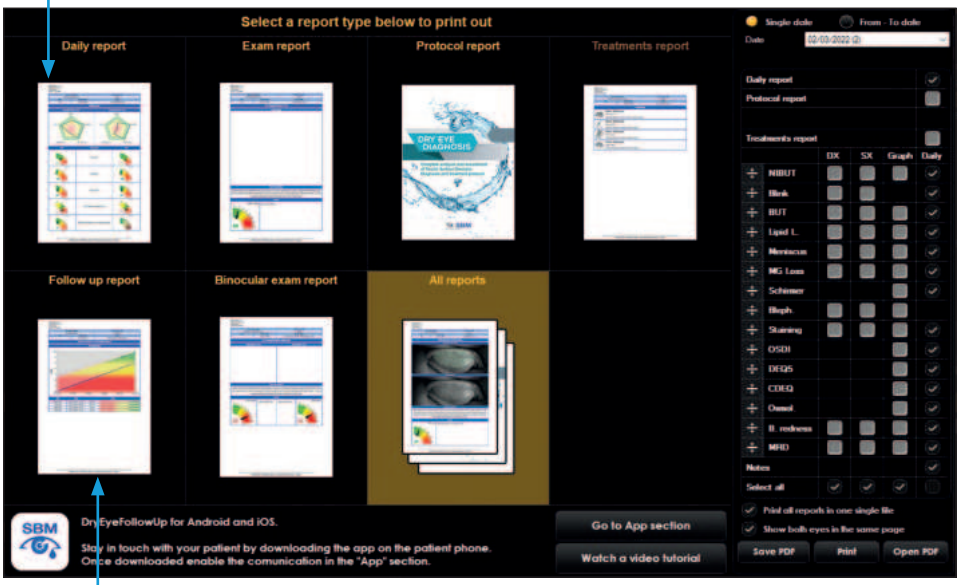
The software is a dedicated platform for dry eye: it provides important results helping the diagnosis and classification of Dry Eye diseases and provides and saves medical reports, offering the most professional and clinical solutions to patients.

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.

The "Daily report" groups all results of the patient's exams of one single day. Multiple visualization options are available, including with or without pictures of the exams.

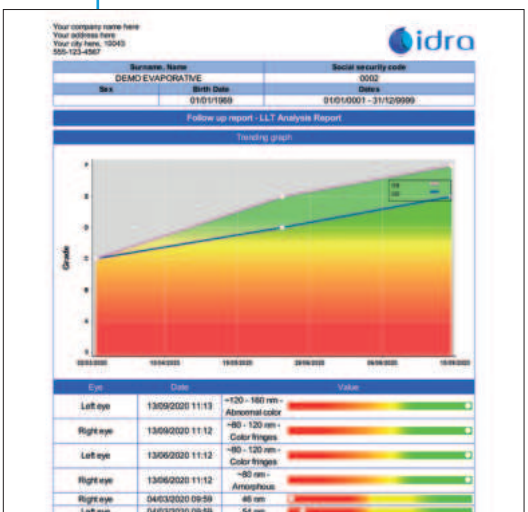
The "Follow-up report" can show to the patient the benefit of the therapy showing the improvement of the symptoms related to the dry eye pathology.

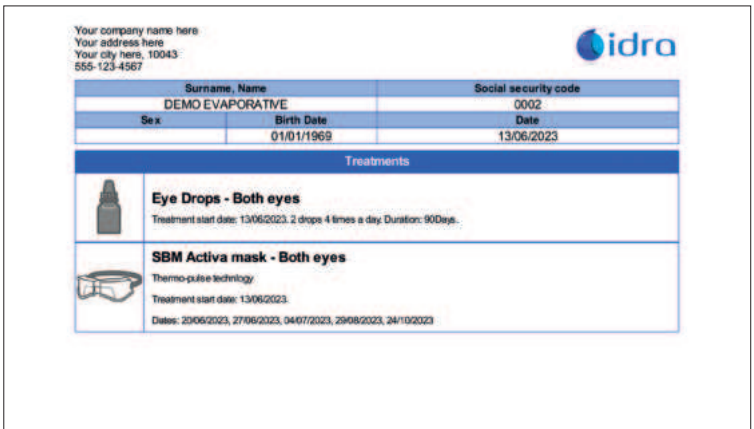


The "All reports" options can print a folder including up to 16 pages.

When the patient is paying out-of-pocket, receiving a detailed multi-page report will provide an added value and increase the satisfaction.

The "Treatments report" lists all prescribed treatments for the patient.





Treatment protocol basic · plus · full

The software stands as an advanced platform, presenting multiple versatile solutions meticulously designed to empower medical professionals (MD/OD) and users alike in the intricate task of assigning therapy:

MANUALLY

Treatment managing

Through TREATMENT MANAGING tab, the software allows the physician to fill in the database with all drugs, integrators and treatments available in his practice.

Food supplements, Omega-3, eye drops, hot packs, and Activa/IPL/QMR: every treatment brand and type can be loaded in the software to be prescribed to the patients in two clicks.

AUTOMATICALLY

Automatic treatment suggestion

The unique integrated algorithm, developed in collaboration with MD. Luca Vigo from Studio Medico Carones, can provide a dedicated treatment approach based on the results of the analysis.

In addition...

All users can customize their own protocol adding treatment procedure to be chosen automatically right after performing the exams (this makes it possible as well to delegate the diagnosis to an assistant).

Each of the options provides comprehensive and dedicated printable reports.

Dry eye follow up basic · plus · full

This is an app for the smartphone of the patient to receive exams results, therapy, and a complete knowledge about the dry eye disease.

Stop forgetting your drugs

Set automatically on your mobile phone all treatments.

The App will remind you when and how to use the specific suggested drug.

Benefits of Dry eye follow up

- Fast and easy doctor-patient interactive communication Platform creating a two-way communication;
- Accurate reports sharing and updates;
- Tracking of results and progress over time to show fluctuations in symptoms;
- Help in regularly scheduling appointments, interact with clinic/hospital;
- Sending automatic reminders to patients and notifications to doctors;
- Speeding up the process of providing information, booking appointments, and setting up the treatment procedures prescribed by the doctor.

Download on

SBM Sistemi Smart Base

The Smart Base is a useful accessory to easily set-up and comfortably use your Idra device.

If you are not using the Idra on a slit lamp and you want to create a dedicated Dry Eye corner, the Smart Base is perfect, adding to Idra some useful additional feature like left and right sensor and joystick button.

Joystick One-click acquisition

The optional SBM Smart Base is built precisely, smooth, and high-quality. Images and movies can be captured instantly and conveniently by pressing the joystick button.

Left/Right automatic detection

The SBM Smart Base automatically recognizes the right and left eye, allowing an even faster diagnosis of the ocular surface.

SBM Sistemi

uni en iso 9001:2015 Nr. 8631/0
uni cei en iso 13485:2016 Nr. 8632/0