LACRYDIAG



Ocular surface analyser





Dry eye is a particularly common disease that affects the health and well-being of millions of people worldwide.

The LacryDiag ocular surface analyser complies with the dry eye diagnosis recommendations established in the TFOS-DEWS II report. It offers quick, complete diagnosis of the three tear film layers, produces images of the meibomian glands and measures the percentage of loss of the meibomian glands.

DIAGNOSING THE CAUSE OF DRY EYE MAKES IT EASIER TO SELECT THE APPROPRIATE TREATMENT.

4 NON-CONTACT EXAMS IN 4 MINUTES



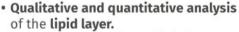
1. N.I.B.U.T. (Non Invasive Break Up Time):

- Evaluation of tear film stability on the
- Automatic measurement of tear film break-up time (sec.) using the device software.
- · Display of the tear film break up time graph and map.

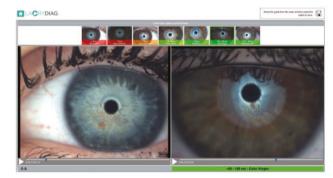


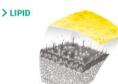


2. Interferometry:



- · Quick determination of lipid layer quality.
- Evaluation of lipid layer thickness based on a grading scale.

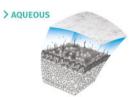


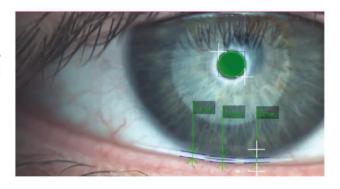




3. Tear meniscus:

- Quantitative analysis of the aqueous layer.
- · Measurement of tear meniscus height (mm).







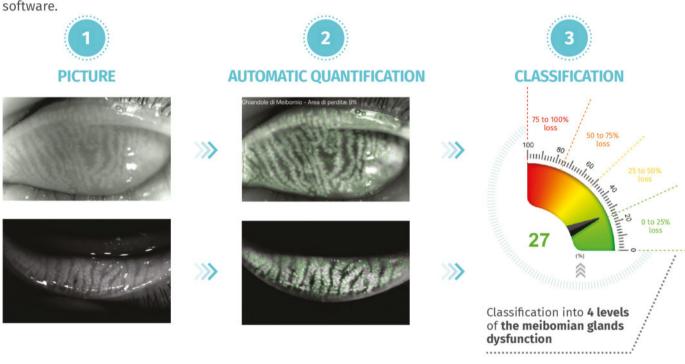


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Infrared meibography is the method used to clearly visualise meibomian gland condition and dysfunction. It provides a clear image of the ducts.

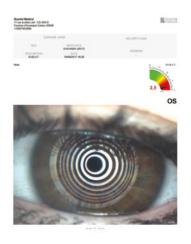
- Qualitative analysis of the meibomian glands in the upper and lower eyelids.
- Automatic detection of meibomian glands and automatic calculation of the percentage of loss by the device software.

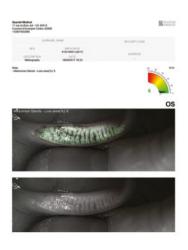


EXAM REPORT

- Easy-to-read exam report thanks to the color dial.
- Report is illustrated with patient images.
- · Report can be edited out in one click.





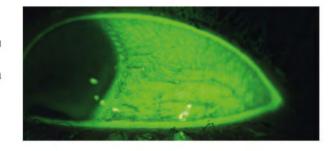


ADDITIONAL EXAMINATIONS

LacryDiag offers additional functions, thanks to its blue, white and infrared LEDs.

EYE STAINING

- Blue LEDs and yellow filter are suitable for fluorescein tests.
- Assessment of corneal damages, keratitis, the conjunctiva and the free margin of the eyelids.



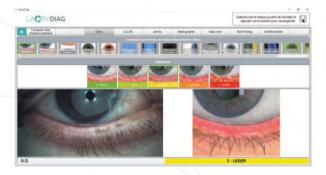
DEMODEX

- Demodex can be viewed on the lashes, thanks to the white LEDs and high-resolution camera (yellow rings around the lashes).
- Photos can be used to assess Demodex infections and help patients understand the problem.



BLEPHARITIS, BULBAR REDNESS

- High resolution images of the eyelid and ocular surface can be produced using the white LEDs and high-resolution camera.
- Blepharitis and bulbar redness severity can be assessed using the various grading scales included in the software.

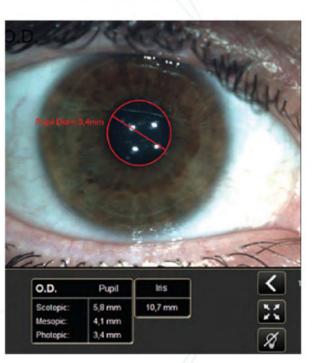


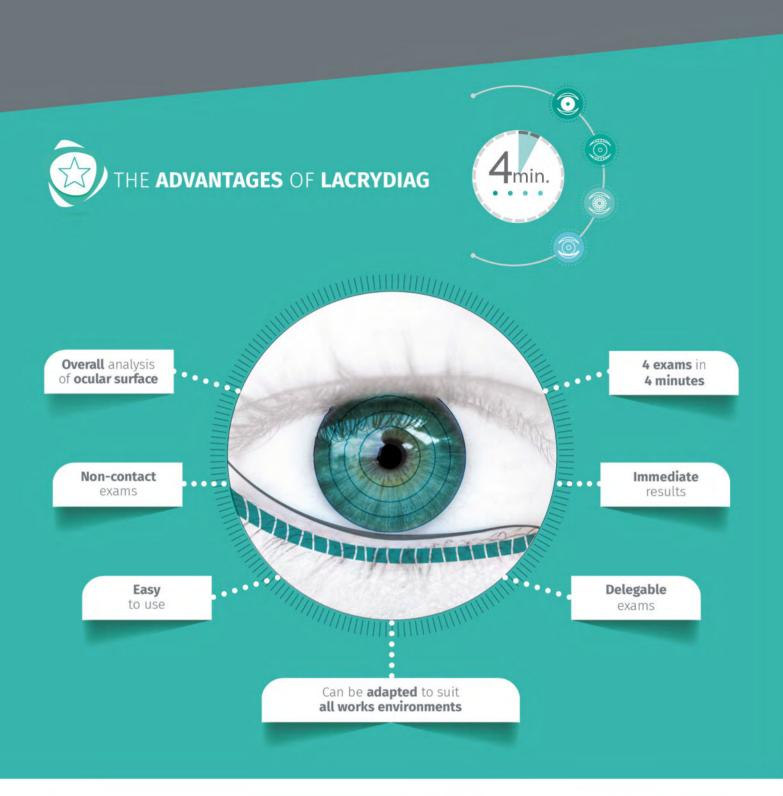
PUPILLOMETRY AND WHITE-TO-WHITE

- Pupil diameter can be measured with three different light intensities, thanks to the white and infrared LEDs
- LacryDiag simulates natural vision conditions in a reproducible way:
 - Photopic vision (daylight, white LEDs)
 - Mesopic vision (dim light, white LEDs)
 - Scotopic vision (night vision, infrared LEDs).

GRADING SCALES

- Several international grading scales are included in the software: EFRON, CCLRU, JENVIS, MEIBOGRAPHY, FERNING TEST etc.
- Gradings can be used to assess the severity of various diseases and measure treatment results.







ADDED VALUE FOR YOUR CLINICAL PRACTICE:

- · Expand your clinical offer to your patients.
- · Diagnose the cause of dry eye earlier.
- Understand the origin of dry eye to offer a more targeted and effective treatment.
- · Assess post-treatment results.
- Optimise post-surgery results (LASIK, glaucoma, cataract).



IMPROVE YOUR PATIENT'S QUALITY OF LIFE:

- · Quick, pain-free exams.
- Easily educate your patients from understandable images.
- · Offer patients personalised treatment.
- · Provide evidence of diagnosis and treatment results.
- · Improve patient care.
- Satisfy your patients, with relief from the very first treatment.

LACRYDIAG



TECHNICAL SPECIFICATIONS

IMAGE AND VIDEO ACQUISITION

Image resolution 8.000.000 pixels Image dimensions 2592 x 1944 pixels JPEG Acquisition mode Multi-shot photos, video Manual and automatic focus Focus

ISO Variable

Camera/Colors Colors - Infrared (IR) Light source

Infrared LED (Meibography, scotopic pupillometry) White LED (Interferometry, N.I.B.U.T., Tear meniscus, photopic/ mesopic pupillometry). Blue LED (B.U.T., fluorescein

test)

Filter Yellow filter for use with fluorescein

GENERAL INFORMATION

Working distance 1.5 cm - 3.5 cm from the eye surface

USB 2.0 and USB 3.0 Ports

Power supply

Size 167.7 mm (W) x 226 mm (H) x 40 mm (D) Weight

Accessories

Pedal, 2 cones, including one with Placido grid to assess N.I.B.U.T., computer(*), software on USB stick with activation code, protective cover, carry case (*); storage rack (*); printer

SOFTWARE AND DATA MANAGEMENT

- LacryDiag communicates with a PC using specific software that works with Microsoft® Windows® PRO (7,8,10)
- Generate reports in PDF
- Exams: interferometry, tear meniscus, N.I.B.U.T., meibography
- Additional exams: B.U.T., White-to-white, pupillometry, corneal deformation, bulbar redness, Demodex, blepharitis
- · International evaluation grids included with the software: Efron, CCLRU, Jenvis, interferometry, meibography, Ferning test

(*) optional

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www.quantel-medical.com

The LacryDiag ocular surface analyser is a non-invasive, class I diagnostic medical device, designed and manufactured by SBM Sistemi and distributed by Quantel Medical.

LacryDiag on slit lamp

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ISO 9001: 2015 - ISO 13485: 2016

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