

# LACRYDIAG™

COMPLETE DIAGNOSIS  
OF DRY EYE



INTERFEROMETRY

N.I.B.U.T.

TEAR  
MENISCUS

MEIBOGRAPHY



Ocular surface analyser

# LACRYDIAG™

**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 **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.**

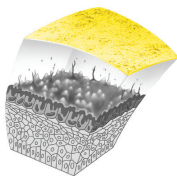
## ■ 4 NON-CONTACT EXAMS IN 4 MINUTES



### 1. Interferometry:

- **Qualitative and quantitative analysis** of the **lipid layer**
- **Quick** determination of lipid layer **quality**
- Evaluation of lipid layer **thickness** based on a grading scale

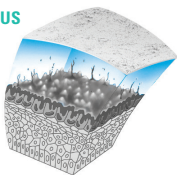
> LIPID



### 2. Tear meniscus:

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

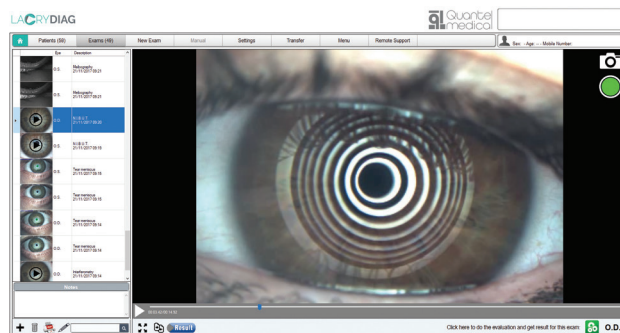
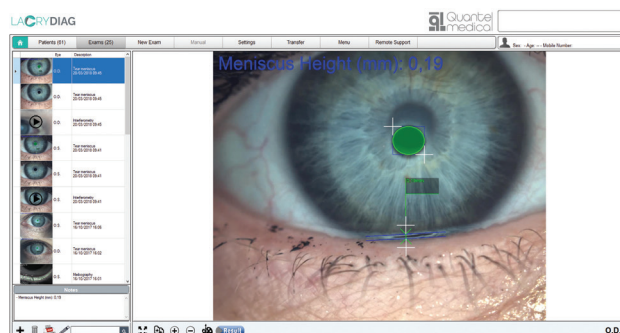
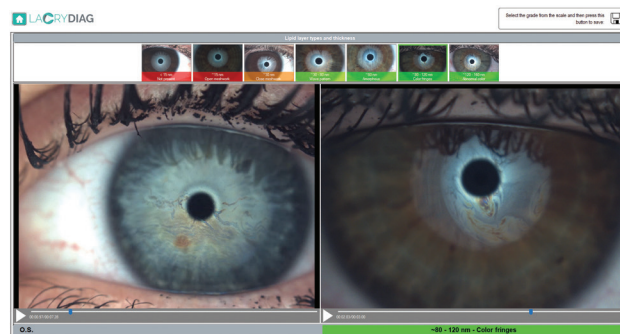
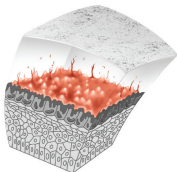
> AQUEOUS



### 3. N.I.B.U.T. (Non Invasive Break-Up Time) :

- **Evaluation of tear film stability** within the **mucin layer**
- **Automatic measurement** of tear film break-up time (sec.) using the device software

> MUCIN



# Ocular surface analyser

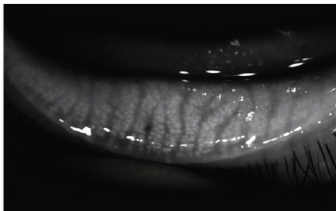
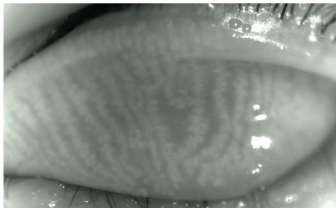


## 4. Meibography of upper and lower eyelids:

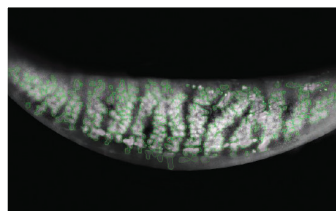
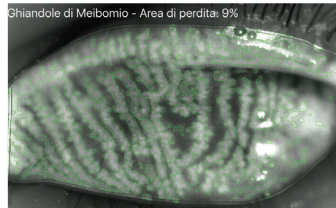
Infrared meibography is the method used to clearly visualise meibomian gland condition and dysfunction. It provides a clear image of the ducts.

- **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.

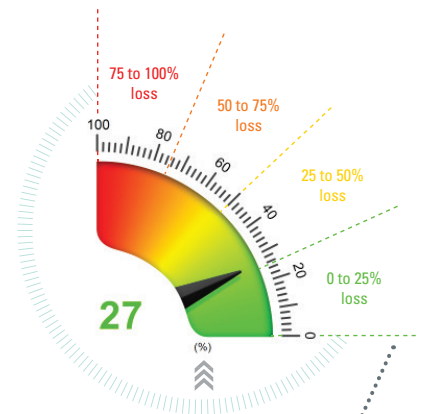
### 1 PICTURE



### 2 AUTOMATIC QUANTIFICATION



### 3 CLASSIFICATION



Classification into 4 levels of the meibomian glands dysfunction

## 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

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CLAYCOTE  
TECHNOLOGIES

SURNAME, NAME	SECURITY CODE
SEX	BIRTH DATE
DESCRIPTION	DATE
Report by date	19/09/2017

Exam Report

Right eye (O.D.)	Meibomian Glands - Loss area (%)	Left eye (O.S.)
2,5	9	2,5
2,5	9	2,5
2,5	9	2,5
2,5	9	2,5
2,5	9	2,5
2,5	9	2,5
2,5	9	2,5
2,5	9	2,5
2,5	9	2,5
2,5	9	2,5

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TECHNOLOGIES

SURNAME, NAME	SECURITY CODE
SEX	BIRTH DATE
DESCRIPTION	DATE
Meibography	19/09/2017 16:28

MEIBIT

2,5

OS

MEIBIT 10/26

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SURNAME, NAME	SECURITY CODE
SEX	BIRTH DATE
DESCRIPTION	DATE
Meibography	19/09/2017 16:23

MEIBIT

6

OS

MEIBIT 10/26

## ■ A COMPACT AND ERGONOMIC SYSTEM

LacryDiag is a compact, ergonomic device that can be adapted for use in all work environments.

**Two magnetic cones**  
easily interchangeable

**Yellow filter**  
for fluorescein exam

**Black cone**  
interferometry and  
tear meniscus

**White cone**  
includes N.I.B.U.T. grid



**Two configurations:**



LacryDiag  
on **dedicated examination table**



LacryDiag  
on **slit lamp**





## THE ADVANTAGES OF LACRYDIAG



**Overall analysis**  
of **ocular surface**

**4 exams in**  
**4 minutes**

**Non-contact**  
exams

**Immediate**  
results

**Easy**  
to use

**Delegable**  
exams



Can be **adapted** to suit  
**all work environments**



### 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 JPEG
Acquisition mode	Multi-shot photos, video
Focus	Manual and automatic 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
Ports	USB 2.0 and USB 3.0
Power supply	5 V
Size	167.7 mm (W) x 226 mm (H) x 40 mm (D)
Weight	1.2 kg
Accessories	Pedal, 2 cones, including one with a grid to assess N.I.B.U.T., computer(*), software on USB stick with activation code, protective cover, carry case (*); storage rack (*); printer (*), table (*).

### 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
- International evaluation grids included with the software: Efron, CCLRU, Jenvis, interferometry

(\* optional)

Specifications are subject to change without notice.

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[www.quantel-medical.com](http://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.

 Quantel  
medical

ISO9001 : 2015 – ISO13485 : 2016

#### Headquarters

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