

MOPTIM



Dry Eye Analyzer

DEA

DEA Dry Eye Analyzer

COMPLETE DRY EYE DIAGNOSIS



DEA Dry Eye Analyzer, demonstrated on complete holder and instrument table (optional).

Dry eye disease (DED) has become a growing health problem worldwide. Millions of people worldwide are suffering from dry eye, and this number is increasing year by year. Even though the symptoms may be mild at first, it is important to recognize them and make early treatment. Left untreated, dry eye would get worse. It can also develop into other eye conditions like corneal abrasions and ulcers.

The **DEA Dry Eye Analyzer** by Moptim is an innovative device that performs complete examinations for dry eye with outstanding imaging capability. The compact design makes it easy to be integrated into any practice seamlessly.

Excellent Performance

- 8 mp high resolution camera
- Up to 8 mm NIBUT measurement range
- Comprehensive dry eye assessment
- Rich report templates

Easy-to-use

- Streamlined software workflow
- Possible to create a custom protocol
- Auto focus, auto exposure
- Wireless camera shutter, can be fixed on the joystick of a slit lamp

Compact and Flexible

- Possible to be attached on majority of slit lamps
- Can be used either on desktop or handheld
- Take along anywhere in a briefcase



FUNCTIONS

DEA provides complete dry eye tests according to the recommendation of **TFOS DEWS II** report.

Symptomatic Evaluation

- DEQ-5

Diagnostic Tests

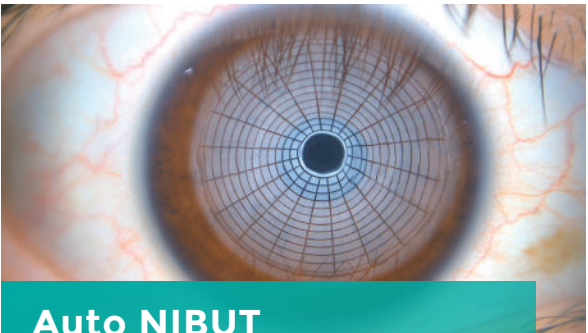
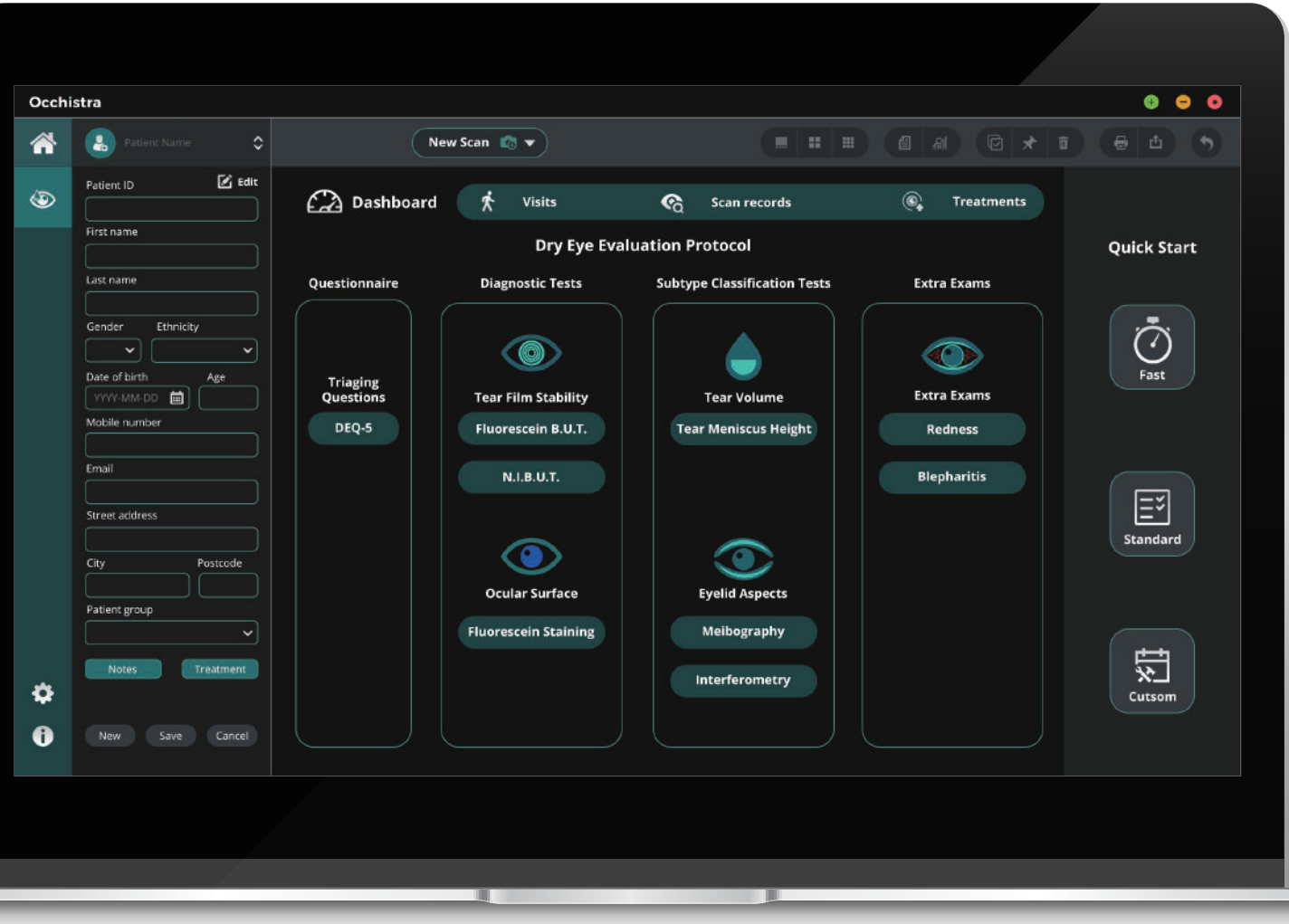
- Break-up Time (FBUT, NIBUT)
- Corneal Staining

Subtype Classification

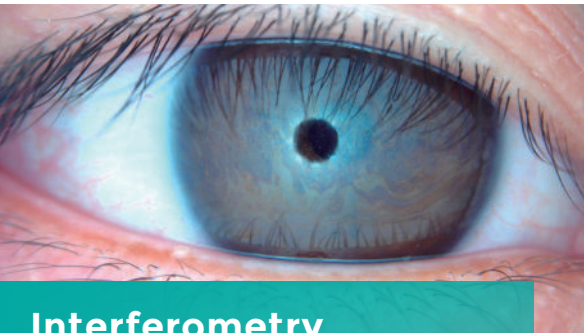
- Meibography
- Interferometry
- Tear Meniscus Height (TMH)

Extra Exams

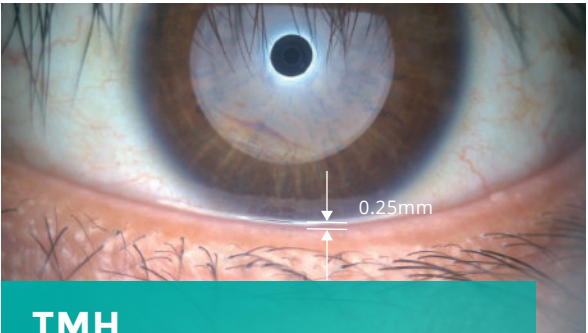
- Redness
- Blepharitis



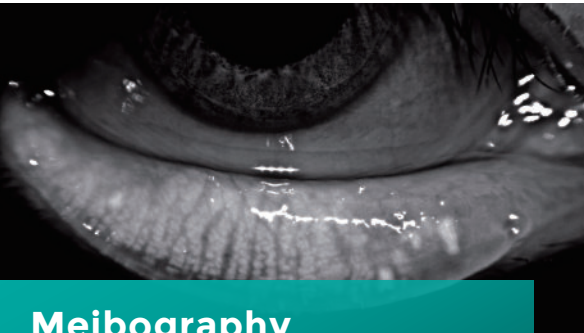
Auto NIBUT
Automatically analyze break-up area, first and average break-up time for tear stability evaluation.



Interferometry
Record a video of blinking process to observe the surface reflection pattern and dynamics of the tear film.



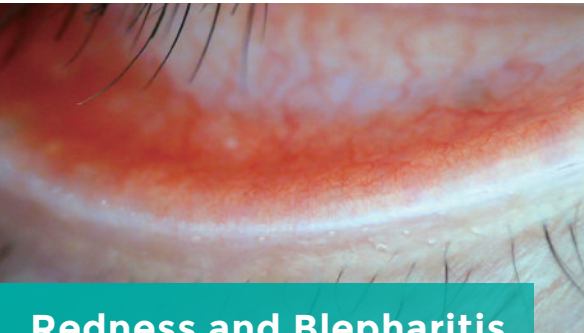
TMH
Evaluate tear meniscus height that is observed on the eyelid margins. Up to 5 measurement points can be taken.



Meibography
Evaluate the meibomian glands with infrared light. The software provides automatic evaluation of loss area.



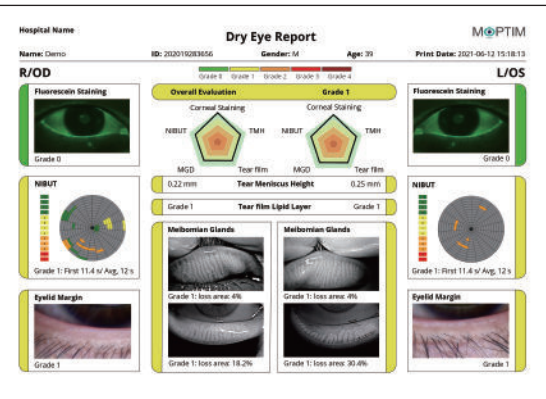
Fluorescein Staining
Evaluate the areas of damage on the ocular surface after application of the fluorescein dye.



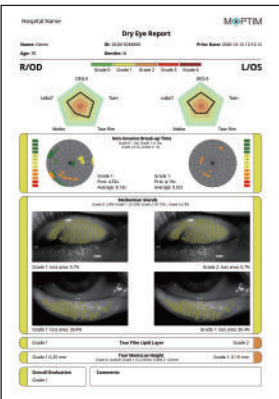
Redness and Blepharitis
Observe the openings of meibomian glands, base of eyelashes, and eyelid edges and ocular surface.

REPORT

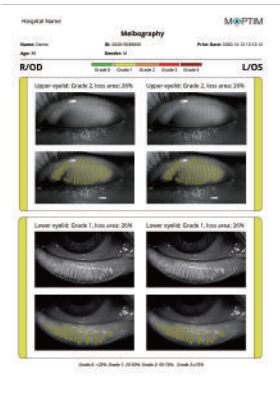
The DEA software provides various single-page, color-coded dry eye report layouts, which are easy to understand and interpret.



Complete DED Report



Brief DED Report



Binocular Report

THE SYSTEM

The product package includes: DEA, lenses, wireless camera shutter, slit lamp adaptors, meibomian gland evaluating tool, lens case, briefcase.



Optionals



Desktop holder



Instrument table

SPECIFICATIONS

IMAGE AND VIDEO ACQUISITION

Image Resolution	8,000,000 pixels
Image Dimensions	3864 x 2218 pixels JPEG
Acquisition Mode	Multi-shot photos, video
Focus and Exposure	Manual and automatic
Covering Area	Maximum 8 mm
Camera	Colored, sensitive to infrared
Light Source	Infrared LED, Blue and white LED

GENERAL INFORMATION

Working Distance	5 mm - 50 mm
Ports	USB 3.0
Power Supply	5 V
Dimension	170mm (H) x 54mm (W) x x 64~110mm (L)
Weight	427g (including main body, 4 lenses and 1 wireless camera shutter)
Accessories	Standard: wireless camera shutter, lenses, briefcase, lens case, slit lamp adapter Optional: complete holder, instrument table

SOFTWARE AND DATA MANAGEMENT

Operating System	Windows 10 64 bit
System Requirement	Intel core i3, RAM 8GB, hard disk 200G, screen resolution: 1920*1080
Exams	DEQ-5, Fluorescein staining, NIBUT, FBUT, interferometry, meibography, tear meniscus height, redness, eyelid margin
Incorporated Grading Scales	Efron Grading Scales

Specifications are subject to change due to product improvement.

MOPTIM®



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