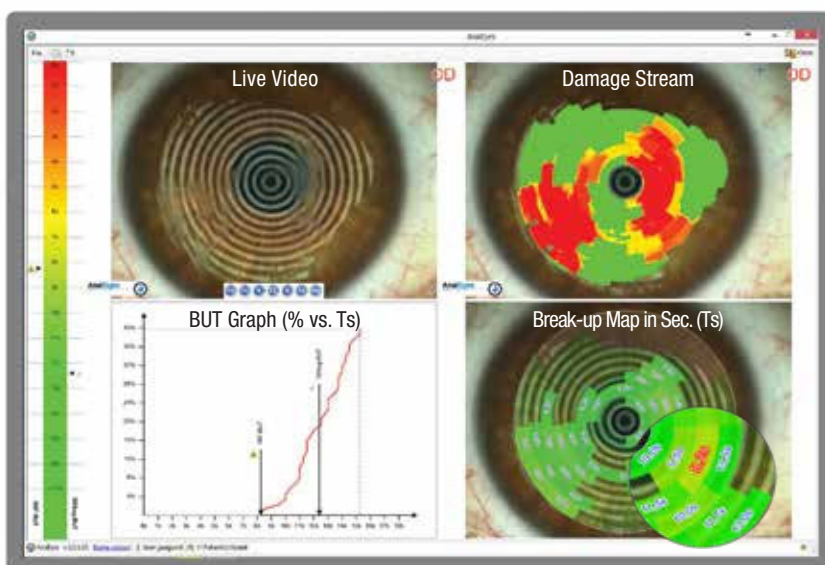


# CORNEA 550



THE COMPLETE SOLUTION  
FOR **PRECISE** DIAGNOSIS  
& **EFFORTLESS**  
DRY EYE ASSESSMENT AND  
CONTACT LENS FITTING



CORNEA 550

CORNEAL TOPOGRAPHER



**ESSILOR**  
INSTRUMENTS

## CORNEA 550 CORNEAL TOPOGRAPHER

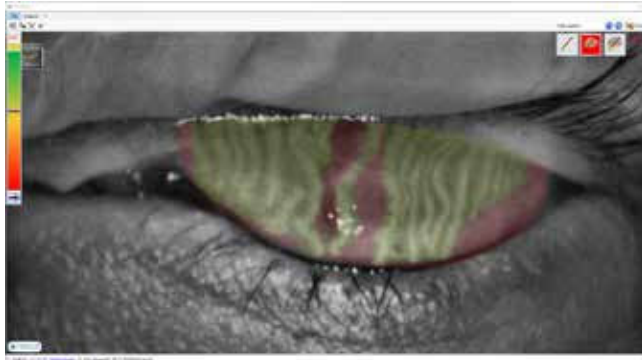
### SPECIFICALLY DESIGNED FOR CORNEA SPECIALISTS

- High-resolution color camera
- Wide array of graphic representations
- Advanced qualitative and quantitative tear film assessment
- Ability to track ortho-K progression and differentials
- Dynamic and static capture pupillometry
- Large contact lens database and autofit function (RGP)
- Independent screen to facilitate the sharing of results
- Infrared pictures, HD pictures and videos for both meibomian glands and the anterior segment
- Ability to focus on a specific area for analysis

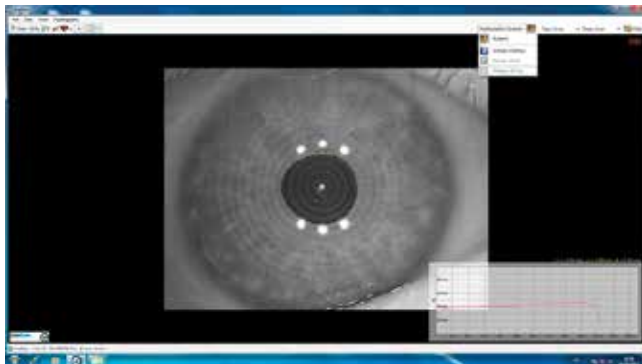




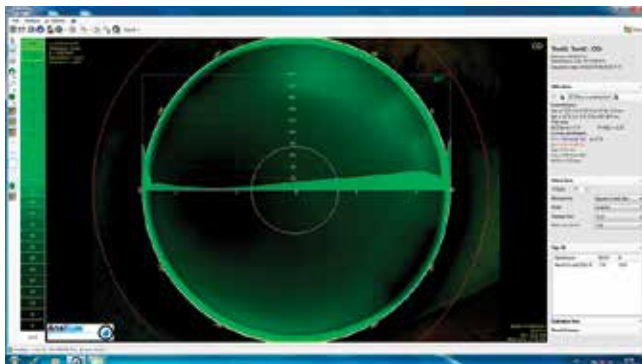
*Anterior Segment*



*Meibography*



*Pupillography*



*Autofit*

## ADVANCED TEAR FILM ANALYSIS FOR DRY EYE TREATMENT

- Videokeratotomy scan of the corneal surface for redness to help assess the eyelids hygiene
- Calculation of the tear meniscus height based on a measured area to evaluate the tear volume
- Non-invasive measurement of the tear film break-up time and the anterior segment
- Assessment of the quality of the tear film
- Meibography with color scale enabling the evaluation of gland loss

## STREAMLINED CONTACT LENS FITTING PROCESS

- Precise evaluation of the corneal surface and wide variety of graphic presentations.
- Rapid and easy selection of the best lens thanks to fluorescein image simulation and integrated database which includes lenses from 27 brands.
- Dynamic and static capture of the pupil reaction according to light conditions (scotopic, photopic, mesopic).

## DRY EYE DIAGNOSIS AND ASSESSMENT

Dry eye is likely the number 1 most under-diagnosed problem in an optometry practice. Cornea 550 is the turnkey solution for dry eye analysis, diagnosis, and management, with a complete yet intuitive and comprehensive solution for the patient and practitioner.

### COMPLETE

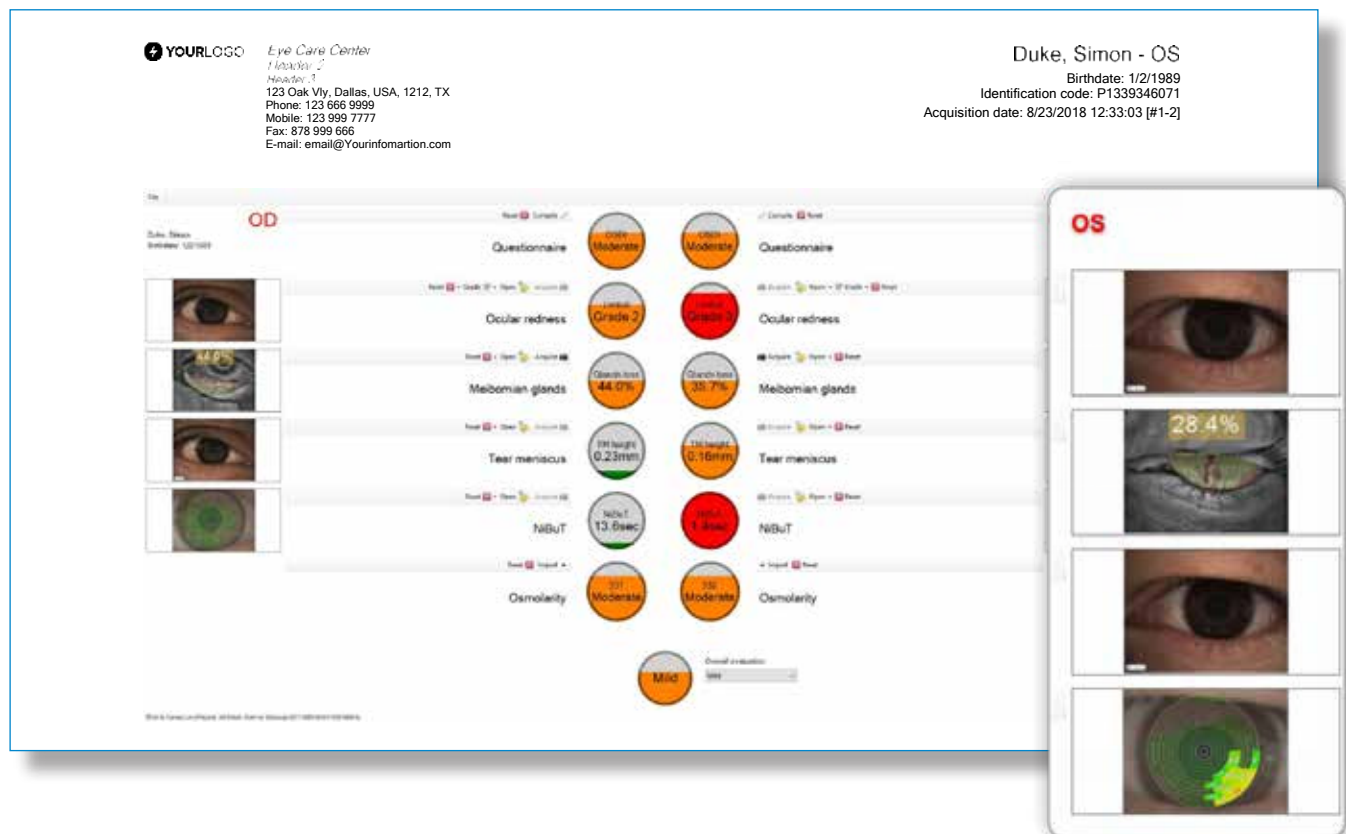
- 5 features enabling a full understanding of the ocular surface due to enhanced software capabilities and maximum coverage of the cornea
- 1 questionnaire recognized as one of the most famous to diagnose symptoms of dry eye (OSDI survey)
- 1 graphical summary report that embeds all the measurements to ease the discussion with the patient

### INTUITIVE

- Guided reporting taking the practitioner step by step in its management of dry eye
- Automated analysis of TBUT
- Comparison to existing and famous scales: Meibo scale for meibomian glands and Effron scale for ocular redness

### COMPREHENSIVE

- All data printable in one single graphic report (sample report)
- Facilitating the discussion between the optometrist and the patient while the data acquisition may have been performed by the technician



## OCULAR SURFACE DISEASE INDEX (OSDI)

Ask your patients the following 12 questions and check the number in the box that best represents each answer.

Have you experienced any of the following during the last week?	All of the time	Most of the time	Half of the time	Some of the time	None of the time
1. Eyes that are sensitive to light?	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1	<input type="radio"/> 0
2. Eyes that feel gritty?	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1	<input type="radio"/> 0
3. Painful or sore eyes?	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1	<input type="radio"/> 0
4. Blurred vision?	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1	<input type="radio"/> 0
5. Poor vision?	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1	<input type="radio"/> 0
Subtotal score for answers 1 to 5					<input type="text"/>

Have problems with your eyes limited you in performing any of the following during the last week?	All of the time	Most of the time	Half of the time	Some of the time	None of the time	N/A
6. Reading?	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/>
7. Driving at night?	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/>
8. Working with a computer or bank machine (ATM)?	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/>
9. Watching TV	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/>
Subtotal score for answers 6 to 9						<input type="text"/>

Have your eyes felt uncomfortable in any of the following situations during the last week?	All of the time	Most of the time	Half of the time	Some of the time	None of the time	N/A
10. Windy conditions?	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/>
11. Places in areas with low humidity (very dry)?	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/>
12. Areas that are air conditioned?	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/>
Subtotal score for answers 10 to 12						<input type="text"/>



Sum of scores for all questions answered

Total number of questions answered  
(does not include questions answered N/A)

OSDI

**Cornea**  
550







## VALUABLE TOOL TO FACILITATE COMMUNICATION

- Efficient way to share information thanks to the wide and high-definition screen
- Comprehensive and easy-to-understand graphic representations to enhance your expertise

## SPECIFICATIONS

Light Source	<ul style="list-style-type: none"> <li>• White light for corneal topography and videokeratoscopy</li> <li>• Blue light (470 nm) for pictures and video in fluoresceine</li> <li>• IR LED (890 nm) for pupillography and meibography</li> </ul>
Digital Camera	Color, high resolution (1024x960)
Working distance	78mm

### CORNEAL TOPOGRAPHY:

Number of rings	24
Number of measuring points	6144
CL data base	Yes
Simulations	Yes
Technology	Big cone
Method	Placido rings

### FEATURES

Meibography	Yes
Pupillography	Yes
Auto Fit	Yes
Tear film analysis	Yes
Corneal Aberrometer	Yes
Anterior segment picture and video	Yes

### CONNECTIVITY

Cable	USB3 required
EMR/EHR	AnaEyes software, PDF, JPG, BMP and AVI export formats
System software requirements.	<ul style="list-style-type: none"> <li>• Windows® XP Home SPK3</li> <li>• Windows® XP Professional SPK3</li> <li>• Windows Vista® 32 bit Home premium</li> <li>• Windows® 7 Home and Pro 32 bit and 64 bit</li> </ul>
Minimum PC desktop hardware requirements.	Intel® Pentium Dual Core™, 2.00 GHz processor; 2 GB RAM; Firewire 1394A board OHCI 1.1 compatible; Video board – 512 MB RAM (not shared), 1280x1024 pixels resolution

### DIMENSIONS AND WEIGHT

Size	12.6 (L/D) x 8.0 (W) x 20.0 (H) in.
Weight	13 lbs (approx)

### OTHER

Power Supply	100-240 V AC, 50/60 Hz
Power Consumption	24V power supply 48 Watts - 2.0 Amps

*As improvements are made, these specifications and pictures are not contractually binding and may be changed without prior notice.*

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