

SeeNa™

Optical Biometry and Topography System

Integrated with Eyetelligence™
Surgical Planning Software



Overview & Key Features

SeeNa™ Features

Overview



Quick & Easy Acquisition with integration to Eyetelligence™ Surgical Planning Software



Optical Biometry (AL-ACD-LT-CCT)



Corneal Topography with Keratometry



Corneal Aberrometry



Pupillometry



White to White Measurement



IOL Calculation Including Barrett and Olsen Sub-Suite



Comprehensive Reports

9 in 1 Features

SeeNa™ captures nine key measurements to calculate IOL power and predict effective lens position...all with a single acquisition.

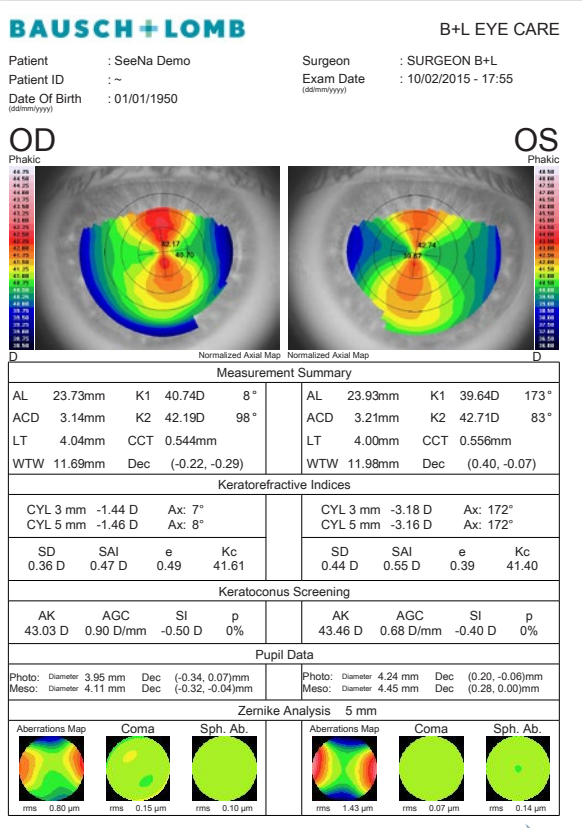
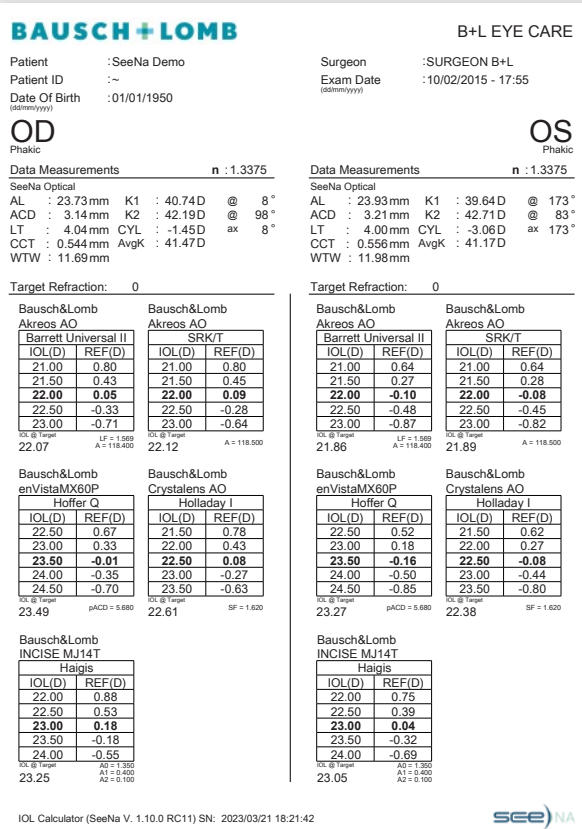
- Axial length
 - Keratometry
 - Anterior chamber depth
 - Central corneal thickness
 - Lens thickness
- Corneal topography
 - Corneal wavefront analysis
 - Photopic and mesopic pupillometry
 - Corneal white-to-white measurements

Biometry of All Structures

SeeNa™ provides low coherence interferometry biometric readings of all structures of the eye including axial length, keratometry, central corneal thickness, anterior chamber depth and the crystalline lens thickness. Axial length measurements can be performed on normal eyes, aphakic, pseudophakic and silicone oil-filled eyes as well as eyes with dense cataracts.

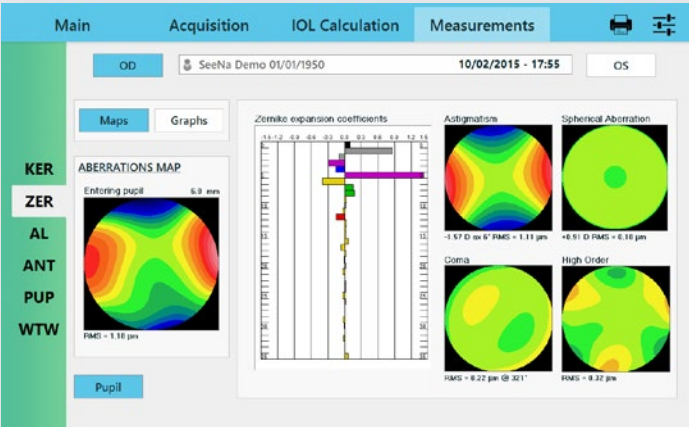
Corneal Topography

Integrated Placido disc topography saves time and supports surgical planning with data on corneal shape and regular vs. irregular astigmatism.



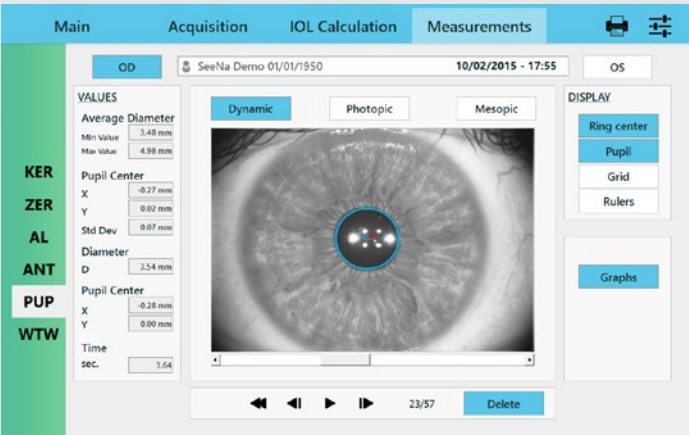
Corneal Aberrometry (Zernike)

Zernike analysis of the topographic data provides important information on spherical aberrations and higher-order aberrations to aid in lens selection and help surgeons set appropriate expectations regarding visual acuity after surgery.



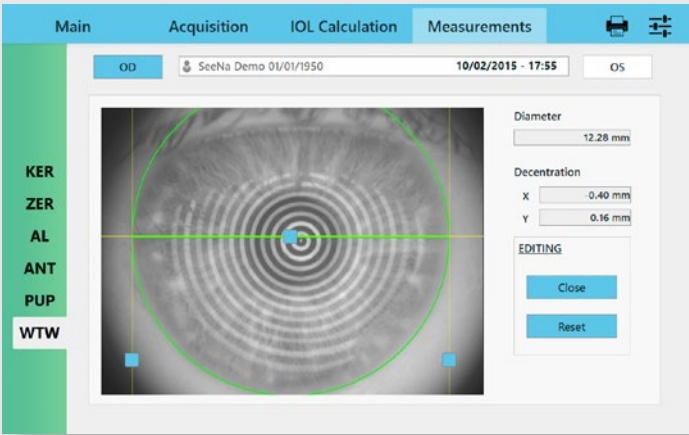
Pupillometry

SeeNa™ measures Kappa decentration in both photopic and mesopic conditions to assist in the pre-surgical evaluation of patients considering multifocal IOLs.



White-to-White

SeeNa™ automatically captures white-to-white measurements. Manual editing may be done to fine-tune the measured parameters. SeeNa™ measures Alpha decentration.

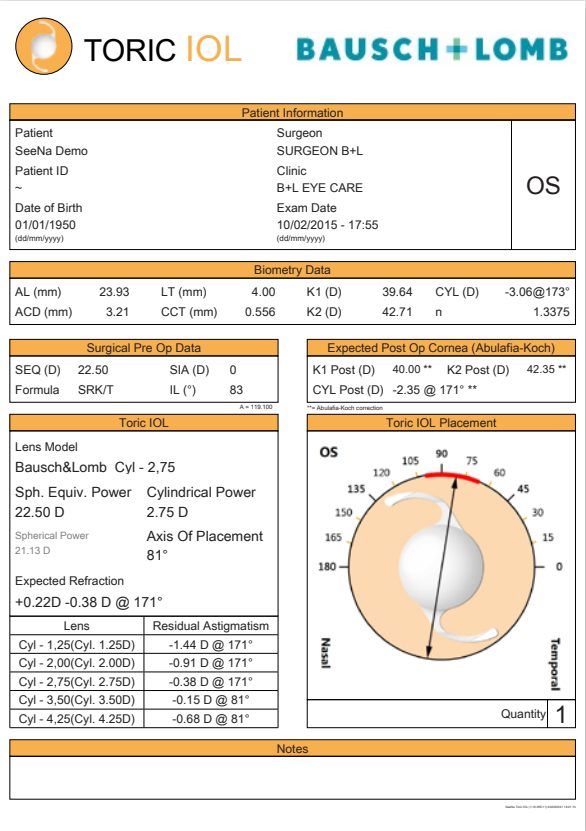


IOL Calculation Suite

SeeNa™ is equipped with the most common IOL formulas, including a Barrett and Olsen sub-suite, to streamline surgical planning.

- **Newer Generation Formulas**
 - Barrett, Olsen
- **Conventional Formulas**
 - SRK II, SRK/T, Hoffer Q, Holladay 1, Haigis
- **Post-Refractive IOL Calculation**
 - Barrett, Shammas, Camellin-Calossi
- **Toric IOL Calculation**
 - Barrett Toric Calculator
 - Generic Toric IOL Calculator with Abulafia-Koch correction

SeeNa™ also features a powerful program that simulates IOL rotation to aid in planning revision surgeries.



Results in Seconds

Point and shoot acquisition allows operators to capture all necessary measurements in just a few seconds. Single measurements may also be taken for axial length, anterior chamber depth, topography and pupillometry. A user-friendly interface enables new users to quickly master acquisition and operation.

Expanded EMR and DICOM Connectivity

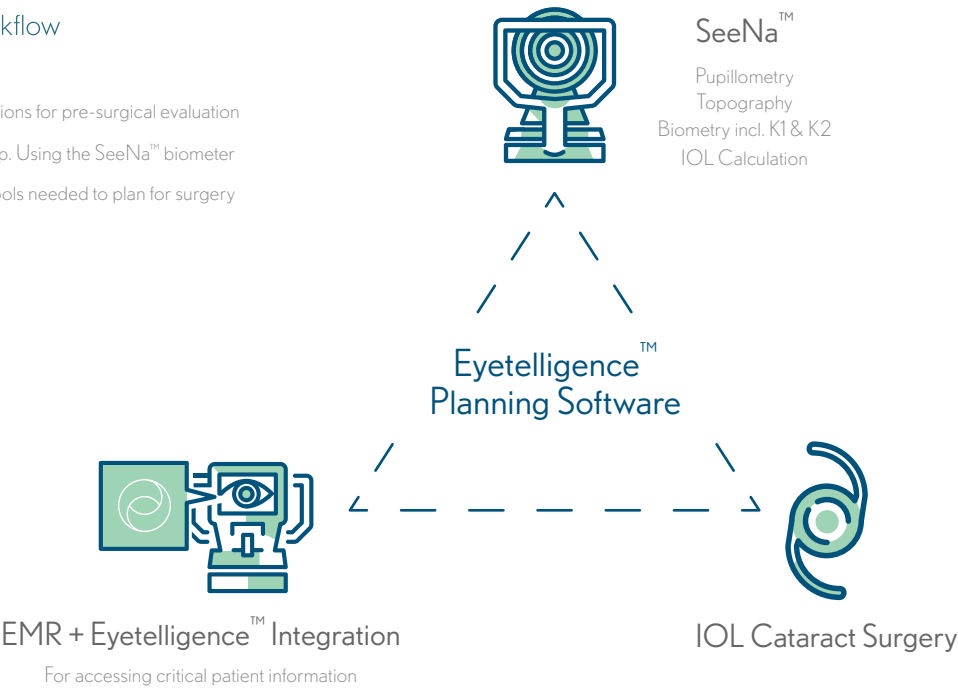
SeeNa™ can export raw data and reports to a shared folder, external EMR software and Eyetelligence™ Surgical Planning Software. The DICOM panel in the SeeNa™ Connectivity section allows the user to set the needed parameters for the connections to the available DICOM features: Modality Worklist, Patient Root Query, Storage and Storage Commitment.

Cataract Workstation

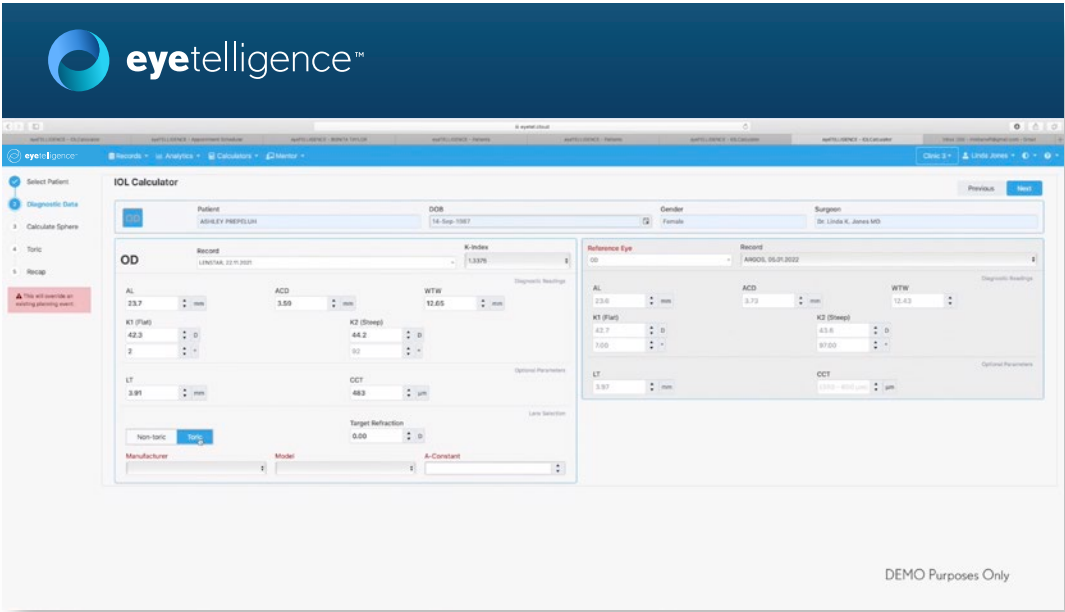
Specifications

Bausch + Lomb's Cataract Workflow

Bausch + Lomb offers efficient, affordable solutions for pre-surgical evaluation and planning as well as post-operative follow up. Using the SeeNa™ biometer and corneal topographer gives surgeons the tools needed to plan for surgery and assess visual outcomes.



Eyetelligence™



MEASUREMENT RANGE FOR IOL

AXIAL LENGTH (INTERFEROMETRY)	Super luminescent diode 830nm, 15 mm – 38 mm
CORNEAL RADII	5.00 mm – 12.00 mm / 28.00D - 67.50D
ACD MEASUREMENT	Interferometer 1.5 mm – 6.5 mm
WTW MEASUREMENT	8.0 mm – 14.0 mm
PUPILLOMETRY	Dynamic, Photopic & Mesopic, pupil size 0.5 mm – 10 mm
LENS THICKNESS (INTERFEROMETRY)	Phakic eye: 1.50 mm – 6.50 mm Pseudo-phakic eye: 0.50 mm – 3.50 mm
CCT MEASUREMENT (INTERFEROMETRY)	0.300 mm – 0.800 mm

ON-BOARD CALCULATION FORMULAS

IOL FORMULAS	Haigis, Hoffer Q, Holladay 1, SRK®II, SRK®T, Barrett, Universal II, Olsen
POST REFRACTIVE SURGERY IOL FORMULAS	Camellin Calossi and Shammas No History, Barrett True K, Barrett Rx

PLACIDO TOPOGRAPHY SPECIFICATIONS

KERATOSCOPIC CONE (TOPOGRAPHIC MAP)	24 rings on a 43 D sphere, working distance 80 mm
POINTS ANALYSED	Over 100,000
POINTS MEASURED	Over 6,000
CORNEA COVERAGE	up to Ø 9,8 mm (on a 8 mm sphere) 42.2D with N=1.3375
GUIDED FOCUS SYSTEM	Yes

APEX KERATOMETRY

APICAL CURVATURE	Yes
APICAL GRADIENT OF CURVATURE	Yes
SYMMETRY INDEX	Yes

SOFTWARE FEATURES

TORIC IOL CALCULATOR	Generic Toric IOL, Toric IOL
ZERNIKE ANALYSIS	Pupil range 2.0 mm – 7.5 mm
PRINT TO	USB printer, Network printer, PDF to shared network folder & PDF to USB drive
CONNECT TO	Eyetelligence™ Surgical Planning Software

INSTRUMENT SPECIFICATIONS

DISPLAY	10.1" touch screen
STORAGE	At least 520 GB
OPERATING SYSTEM	Windows Embedded
PROCESSOR	Intel®Celeron®
INTERNAL MEMORY	At least 4 GB
POWER INPUT	AC 100 – 240V – 50–60 Hz
DIMENSIONS	320 mm (W) x 490 mm (H) x 470 mm (L)
WEIGHT	18 kg
CONNECTIONS	1 x LAN, 2 x USB
SUPPORTS	USB Barcode scanner, External USB keyboard /mouse
MARKING	ETL

REPORTS

SEENA™ REPORT	Yes
MEASUREMENT OVERVIEW	Yes
PUPILLOMETRY	Yes
IOL	Yes
GENERIC TORIC IOL	Yes

For more information about SeeNa™
please visit **bauschsurgical.com**

