

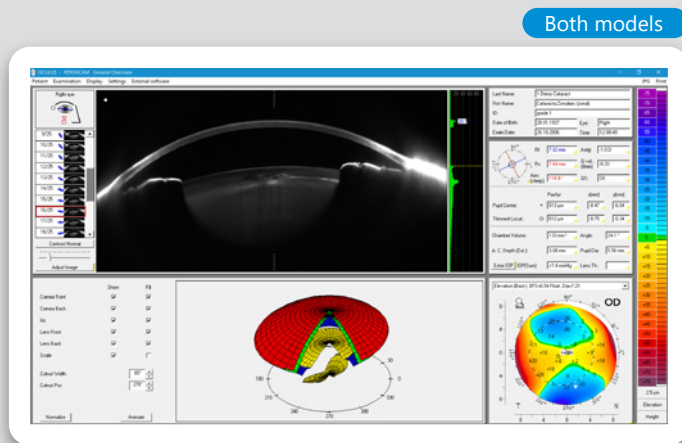
OCULUS Pentacam® Family



An Overview

The Gold Standard in Anterior Segment Imaging

Since its introduction in 2002, the OCULUS Pentacam® has proven itself indispensable and is recognized worldwide as the "Gold Standard." In a matter of seconds, the Pentacam® delivers tear-film-independent, contact-free measurements. This provides the foundation for precise and reliable clinical assessment and successful anterior segment treatment.



Scheimpflug-Based Tomography

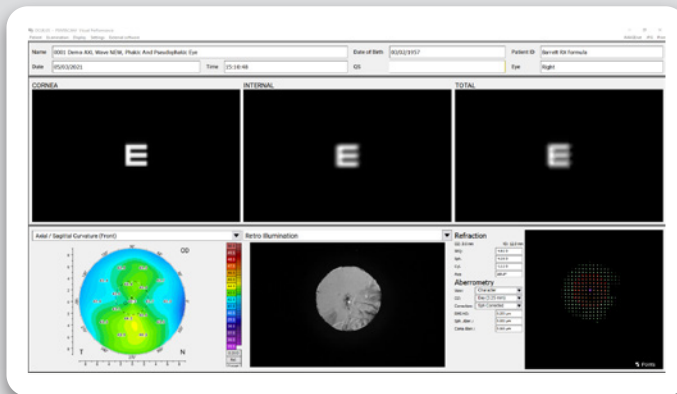
It measures, displays, and analyzes the anterior eye segment, and is non-contact and tear-film-independent.

Screening

The great challenge in clinical routine is filtering, evaluating, and representing data in a clear-cut way. This is exactly what the Fast Screening Report does.



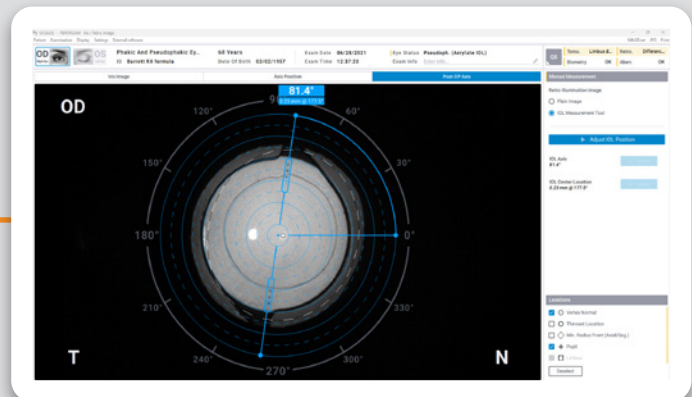
Pentacam® AXL Wave



Wavefront Aberrometry of the Entire Eye and Objective Refraction

Whole-eye aberrometry and objective refraction data together provide everything needed to clearly present and document a patient's overall visual quality, including both corneal and internal visual components. The perfect tool for both pre- and post-op management.

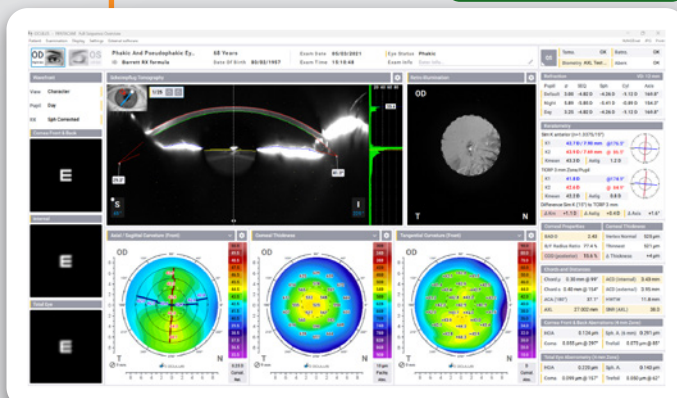
Pentacam® AXL Wave



Retroillumination

Retroillumination provides an easy way to determine the transparency of the crystalline lens in addition to postoperative decentration and axis position of an IOL. This technology makes it possible when necessary to improve the outcome of a toric IOL implantation.

Pentacam® AXL Wave



Optical Biometry

Contact-free axial length measurements with proven precision.

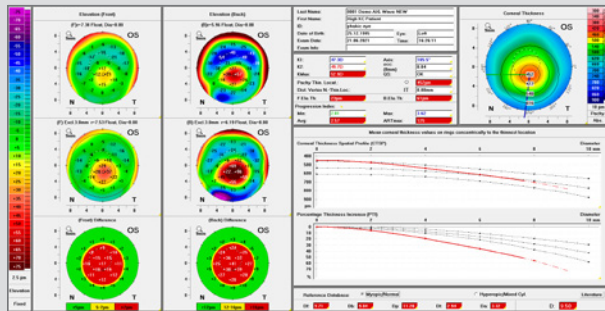
Clinical Applications

Extremely Versatile and a Valuable Aid in Every One of Its Application Areas

Refractive Surgery Planning

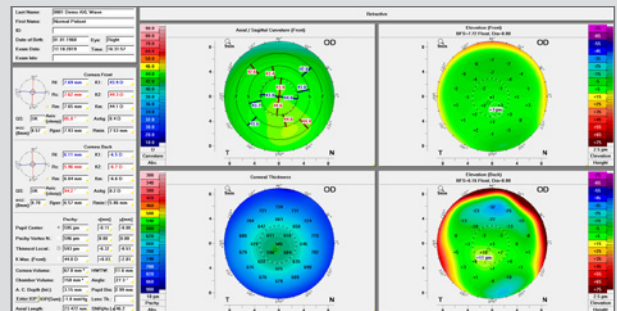
Delivers critical pre-op data to optimize outcomes in laser vision correction and lens-based procedures.

Belin Ambrosio Display



Screening for corneal abnormalities utilizing normative databases.

4 Maps Refractive

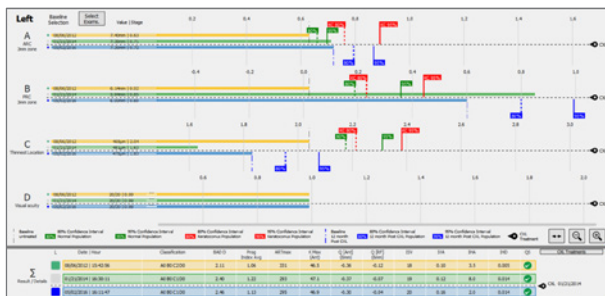


Posterior corneal elevation, anterior corneal elevation, pachymetry, and anterior corneal curvature at a glance.

Corneal Surgery Planning

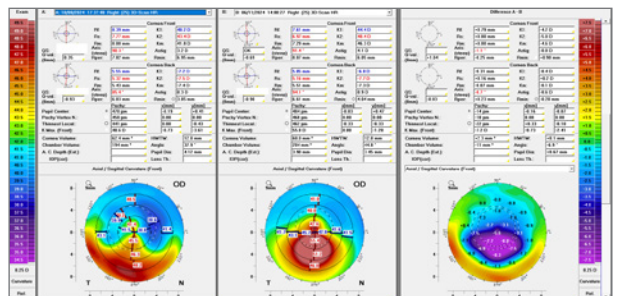
Provides unparalleled analysis for pre-and-post operative evaluation in corneal surgery, including CTAK and crosslinking.

Belin ABCD Progression Display



Cornea irregularity progression analysis based on Belin ABCD Staging System.

Compare 2 Exams



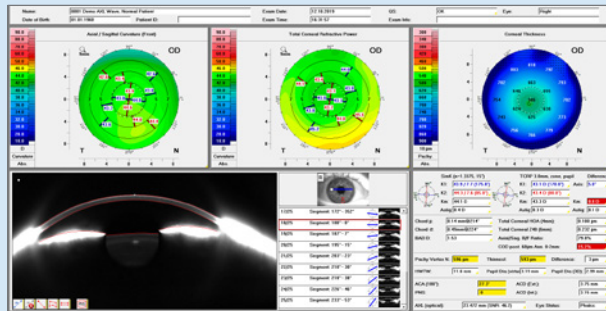
Objective and intuitive comparison of exams with multiple map options.

The Pentacam® is valuable for cataract and refractive surgery planning, corneal shape evaluation, specialty contact lens fitting, and supports myopia management strategies.

Cataract Surgery Planning

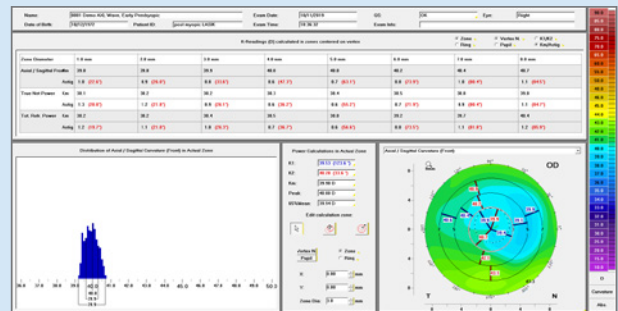
Enhances surgical confidence by supporting IOL selection and calculations.

Cataract Pre-op Display



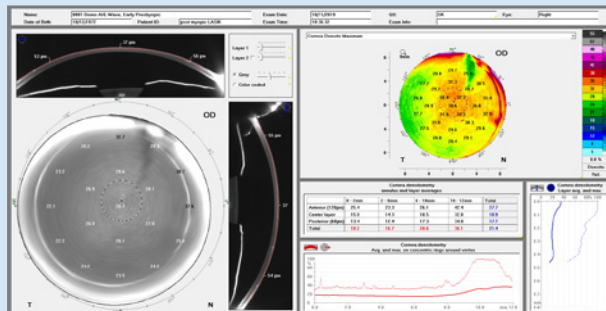
Enhances surgical confidence by supporting IOL selection and calculations.

Power Distribution Display



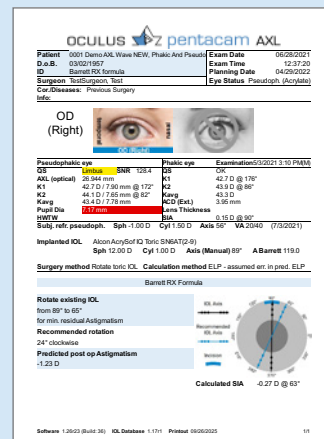
Assessment of corneal power with adjustable calculation zones for post-refractive IOL calculations.

Corneal Optical Densitometry Display



Objective analysis of corneal optical densitometry across multiple layers and zones.

IOL Calculator – Printout



Comprehensive IOL calculator complete with spherical, toric, post-refractive, toric post-refractive, and Barrett Rx formulas.

Hear from the Experts

Why Pentacam® Makes the Difference

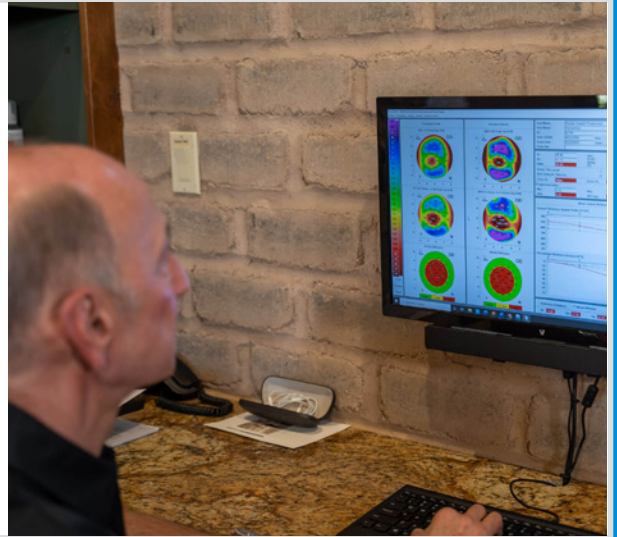
EXPERT OPINION

” I can no longer imagine safely planning surgery without a Pentacam®. “

Prof. Michael W. Belin
Tucson, USA | University of Arizona



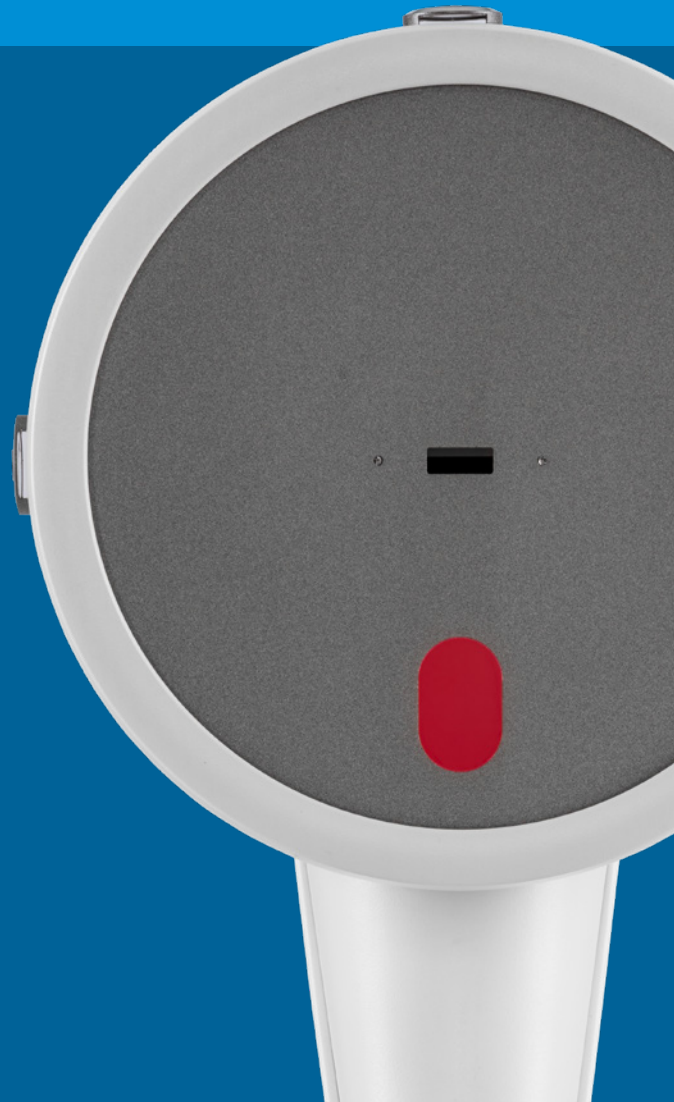
Find out in this interview with Prof. Belin, why the Pentacam® has become indispensable to him.



Pentacam® HR

High-resolution Scheimpflug
Images of the Anterior Eye
Segment

- Tomography of the entire anterior eye segment, including the sclera
- Corneal aberrometry
- High-resolution images



Pentacam® AXL Wave

Five Measurement Functions
Combined in One Device

- Tomography of the entire anterior eye segment, including the sclera
- Whole-eye aberrometry
- Objective refraction
- Optical biometry
- Retroillumination



EXPERT OPINION

” Fast screening with maximum depth of detail is to me an unbeatable combination. “

Prof. Renato Ambrósio Jr.
Rio de Janeiro, Brazil | Instituto de Olhos Renato Ambrósio



Find out what keeps Prof. Ambrósio relying on the Pentacam® for precise diagnostics.



The Pentacam® Family

Technical Data

Measurement Functions	Pentacam® HR	Pentacam® AXL Wave
Scheimpflug-based Tomography	✓	✓
High-resolution Scheimpflug Tomography	✓	✓
Optical Biometry	–	✓
Aberrometry of the Entire Eye	–	✓
Objective Refraction	–	✓
Retroillumination	–	✓
Versatile Basic Software	Pentacam® HR	Pentacam® AXL Wave
Fast Screening Report, 1 Large Color Map, Virtual Eye, Tomography, 4 Maps Refractive, General Overview, Anterior Segment Tomography, Topometric / KC Staging (Belin ABCD Staging), Belin ABCD Progression Display, Iris Camera and Automatic HWTW Measurement, 3D Anterior Chamber Analysis, Compare 2 Exams, Compare 2 Exams Scheimpflug Images, Scheimpflug Image Overview	✓	✓
Full Sequence Measurement	✓	✓
Full Sequence Overview	–	✓
Aberrometry	–	✓
Retroillumination	–	✓
Optional Software	Pentacam® HR	Pentacam® AXL Wave
Screening Package	○	○
Cataract Package	○	○
Refractive Package	○	○
Contact Lens Fitting Package	○	○
Myopia Package	–	○
Individual Licenses	Pentacam® HR	Pentacam® AXL Wave
Holladay Report and Holladay EKR Detail Report	○	○
3D pIOL Simulation and Aging Prediction	○	○
IOL Calculator	○	○
DICOM	○	○
Visual Performance	–	○



✓ included ○ optional – not available



Scan here for
further information

WWW.OCULUSUSA.COM



The OCULUS QM system is certified in accordance with ISO 13485 (MDSAP) and (EU) 2017/745 (MDR)

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