

OCULUS Pentacam® Pentacam® Family



The Right Pentacam® to Meet E



Pentacam® AXL Wave

Five measurement functions combined in one device

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

Pentacam® AXL

Anterior segment tomography and optical biometry

- Tomography of the entire anterior eye segment
- Aberrometry of the entire cornea
- Optical biometry
- High-resolution images

very Need



Pentacam® HR

High-resolution Scheimpflug images of the anterior eye segment

- Tomography of the entire anterior eye segment including sclera
- Aberrometry of the entire cornea
- High-resolution images

Pentacam®

The gold standard for anterior segment tomography

- Tomography of the entire anterior eye segment
- Basic quality

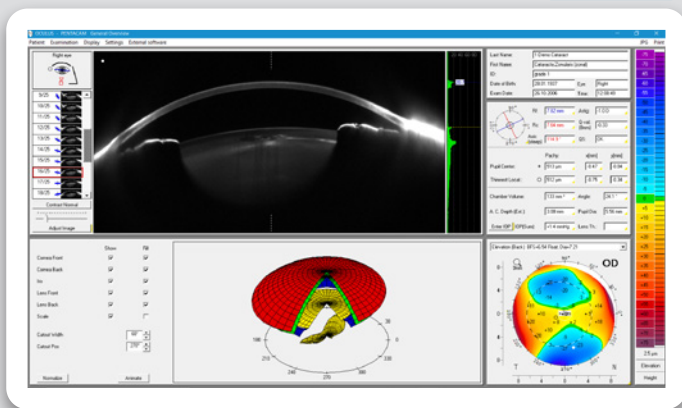
The Pentacam®[®]

An Overview

The Gold Standard in Anterior Eye Segment

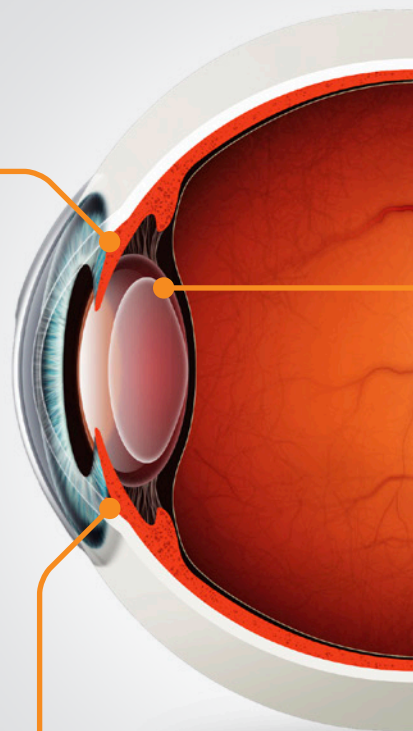
Since its introduction in 2002, the OCULUS Pentacam® has proven itself indispensable and has come to represent the „Gold Standard“ worldwide. Here's why: Contact-free Pentacam® measurement provides the basis for precise and reliable diagnostics and successful treatment of the anterior segment.

All models



Scheimpflug-Based Tomography

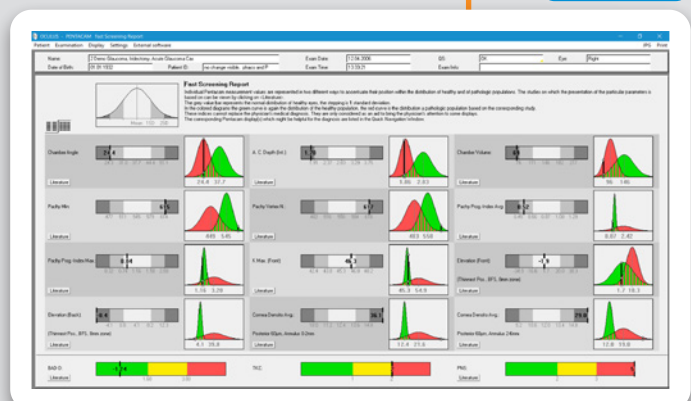
It measures, displays and analyzes the anterior eye segment, and is non-contact and tear-film-independent.



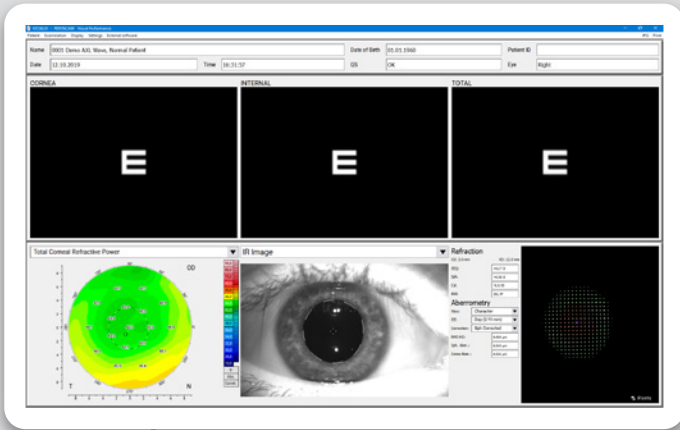
All models

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.

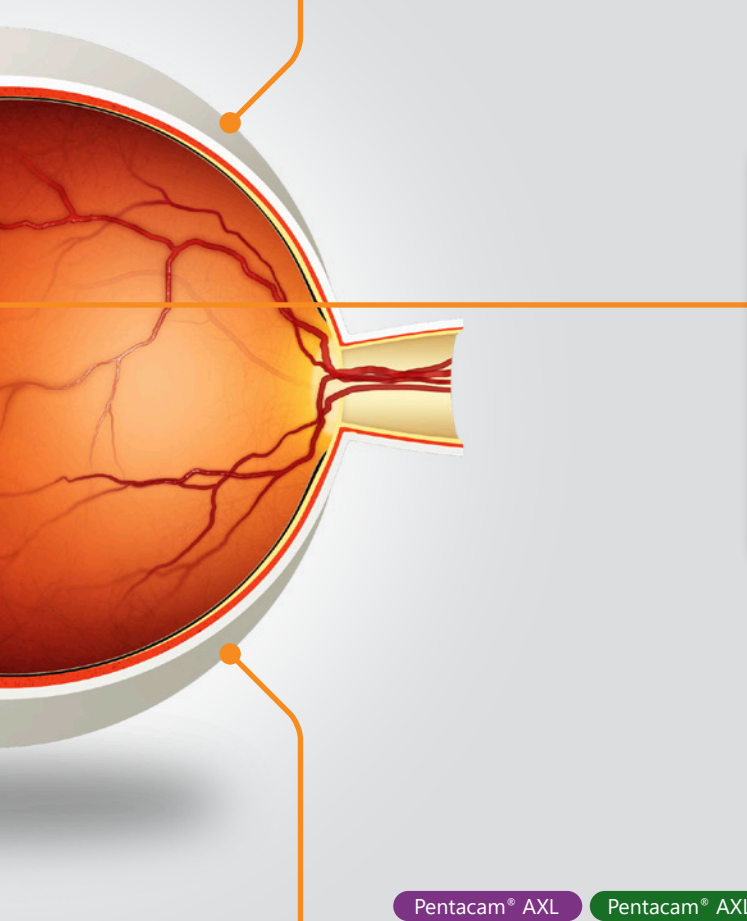


Pentacam® AXL Wave

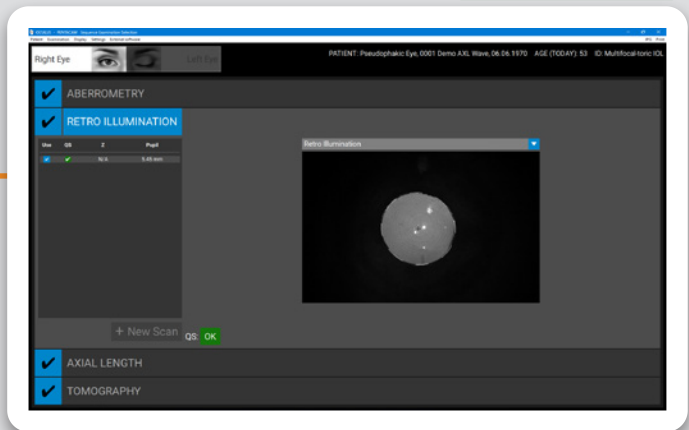


Wavefront Aberrometry of the Entire Eye and Objective Refraction

Whole-eye aberrometry and objective refraction data together provide all that is needed to understandably present and document a patient's visual quality. The perfect tool for both pre- and post-op management.



Pentacam® AXL Wave

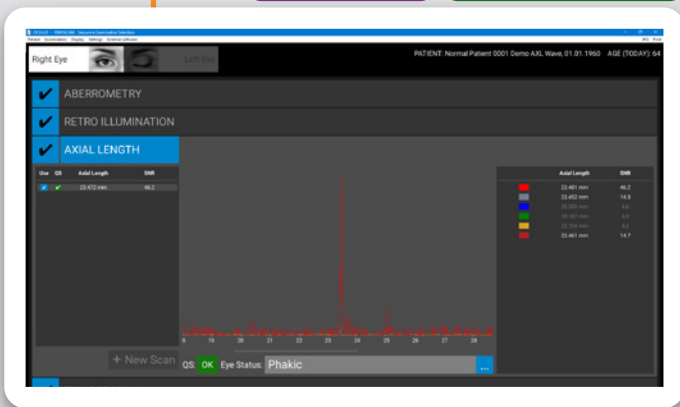


Retroillumination

Retroillumination provides an easy way to determine the 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

Pentacam® AXL Wave



Optical Biometry

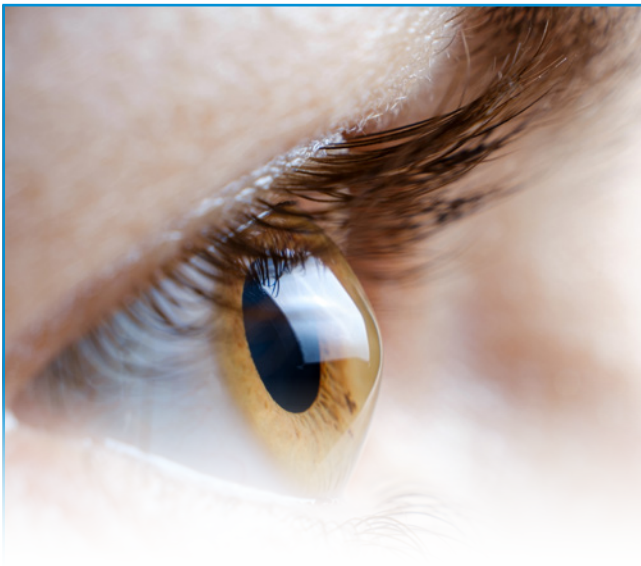
Contact-free axial length measurements with proven precision.

The Pentacam®

Application and Selection

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

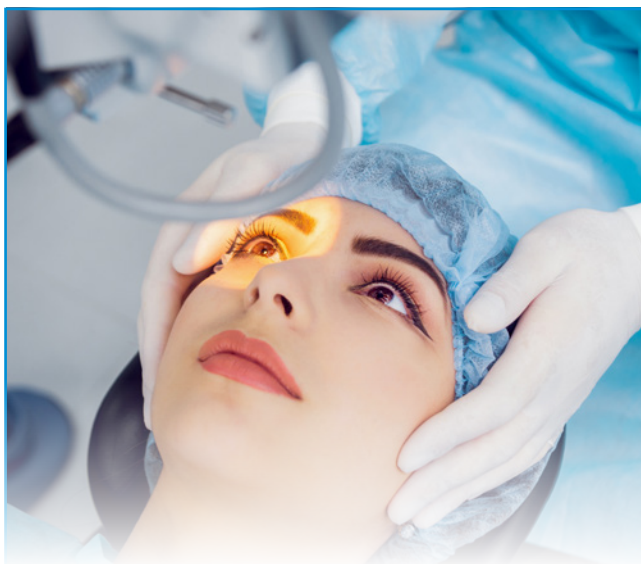
The Pentacam® can be used in cataract surgery, refractive surgery, glaucoma diagnostics, evaluating the corneal shape, contact lens fitting, incl. scleral lenses and offers comprehensive myopia management.



Screening

The Pentacam® measures and analyses the entire anterior eye segment and cornea.

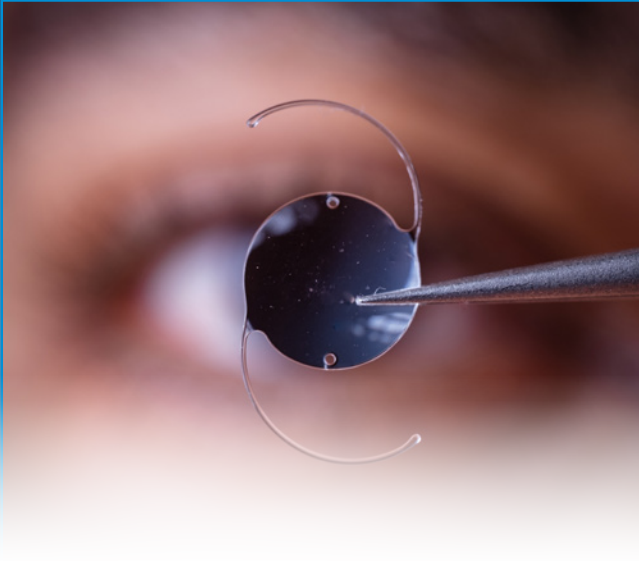
- Ectasia detection and monitoring
- Corneal pathologies
- Narrow angle glaucoma



Refractive Surgery

The Pentacam® provides important information prior to refractive surgery such as laser vision correction or lens implantation.

- Corneal refractive surgery
- Refractive lens exchange
- Phakic IOL



Cataract Surgery

The Pentacam® helps to select the right IOL for cataract surgery.

- Screening pre-op
- IOL selection and calculation
- Post-op tool Barrett Rx



Contact Lens Fitting

Whether rigid contact lenses or scleral lenses, the Pentacam® offers comprehensive software for contact lens fitting.

- Rigid contact lenses
- Ortho-k lenses
- Scleral lenses



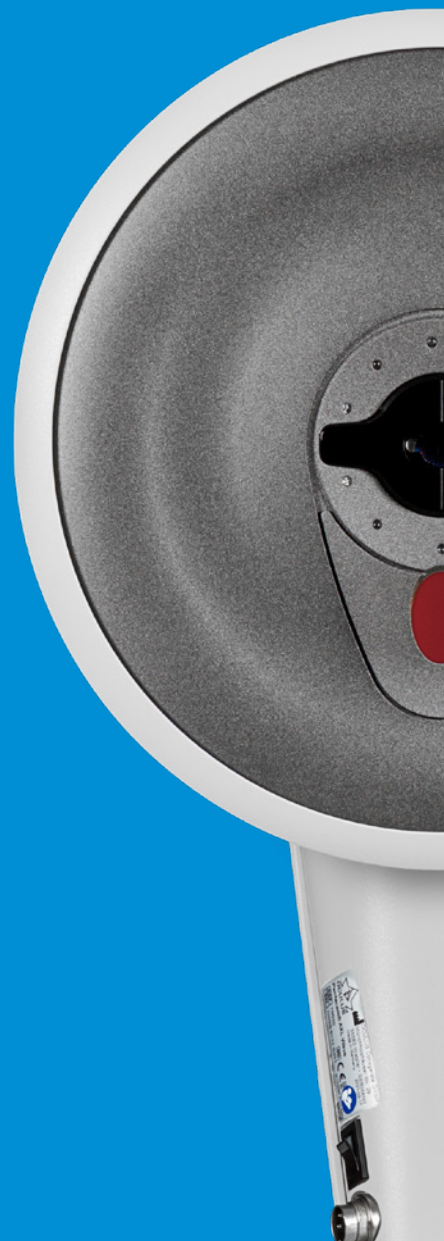
Myopia Management

Myopia management makes an important contribution to controlling and preventing short-sightedness.

- Risk assessment
- Growth analysis
- Myopia report

Provides Safety – Before and After.

The Pentacam® stands for **safety** in diagnostics and surgical planning like no other device. It provides **law-compliant documentation**, ensuring you are always on the safe side.



Your Safety Advisor

Safe Diagnostics

The Pentacam® is able to detect pathologies such as keratoconus, corneal oedema or anterior chamber anomalies at a very early stage. This can be decisive in enabling timely treatment and improving prognosis.

Safe Surgical Planning

The Scheimpflug technology allows extremely precise measurements of corneal topography and thickness as well as other parameters. This precision is essential for the safe planning and execution of refractive surgeries.

Safe Documentation

The Pentacam® provides a safe and effective solution for the documentation and long-term management of patient data. This improves your quality of patient care and creates a reliable basis for clinical decision-making.



EXPERT OPINION

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

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



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



Delivers Results. Clearly and Detailed.

With the Pentacam® you can **fast-screen** for a first overview *and* make **well-informed diagnoses** all in one go, based on a measurement of **less than 10 seconds** duration. Experience speed and depth of detail in a single device.



Expert and Advisor

Well-Founded and Powerful

The Pentacam® software includes algorithms and indices which were especially developed for the diagnosis of specific anomalies such as keratoconus and can thus assist in the early detection and management of such conditions.

Fast and Detailed

The Pentacam® generates detailed data of the anterior segment within a matter of seconds, making it an extremely efficient diagnostic tool.

Clear and Easy to Understand

The Pentacam® software presents data and images in a well-structured, intuitive way, with colour-coded maps showing all diagnostically relevant parameters at a glance.

EXPERT OPINION

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

Prof. Renato Ambrósio Jr.

Rio de Janeiro, Brasilien | Instituto de Olhos Renato Ambrósio

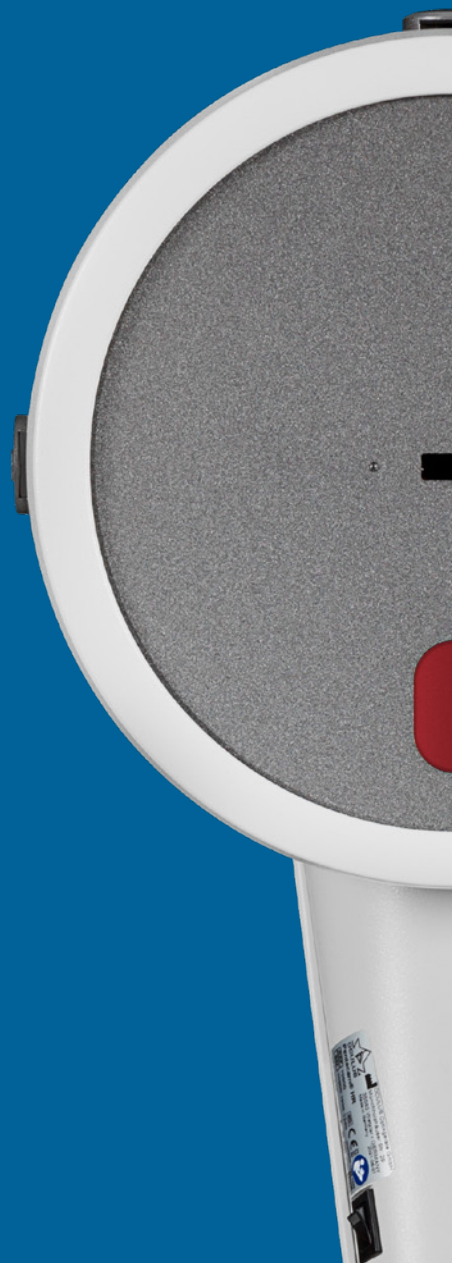


Find out in this video interview with Prof. Ambrósio why the Pentacam® thrills him anew every day.



Pays off. Enables You to Deliver Premium Services at a Profit.

Make the Pentacam[®] your ally. Combine your expertise with the latest Pentacam[®] technology to generate profit.



Your Sales Driver

Gold Standard

The Pentacam® is an indispensable instrument in refractive surgery, especially when it comes to corneal analysis, and has come to be acknowledged as the gold standard.

Premium IOL

The Pentacam® assists in selecting the optimal IOL for each patient on the basis of accurate data. Virtually any corneal shape is allowed for in calculating IOL power.

Special Contact Lenses

The Contact Lens Module supplies detailed data on the corneoscleral profile, assisting in the process of fitting rigid or scleral lenses. This makes it possible to find custom solutions for patients of a wide variety of corneal conditions.

EXPERT OPINION

” We make 80% of our sales on premium services. “

Prof. Rohit Shetty
Bengaluru, Indien | Narayana Nethralaya



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



Engages with Your Patients and Wins Them Over.

In the **premium services** segment, **educating and communicating with your patients** is of the essence. Use the intuitive, readily **understandable displays** of the Pentacam® for your patient consultations.



Communication Expert

Comprehensible Evaluations

Having comprehensible evaluations to work from is key to being able to make diagnosis, develop treatment schedules and counsel patients appropriately.

Transparent Communication

Measurement data are compared with normative data, and possible anomalies are highlighted. The displays make consistent use of the traffic light colour scale, making them easy to understand and creating common ground for communicating with your patients.

Straightforward Progress Monitoring

The Pentacam® makes progress monitoring easy and efficient across a wide range of conditions and ocular diseases.

EXPERT OPINION

” I can only make decisions together with my patients, and the Pentacam® plays a key role in the process. “

María del Mar Seguí Crespo
Alicante, Spanien | Universidad de Alicante



Find out in this video interview with Ms Seguí Crespo why the Pentacam® thrills her anew every day.



The Pentacam®-Family

Technical Data

Measurement Functions	Pentacam® AXL Wave	Pentacam® AXL	Pentacam® HR	Pentacam®
Scheimpflug-based Tomography	✓	✓	✓	✓
High-resolution Scheimpflug Tomography	✓	✓	✓	-
Optical Biometry	✓	✓	-	-
Aberrometry of the Entire Eye	✓	-	-	-
Objective Refraction	✓	-	-	-
Retroillumination	✓	-	-	-

Versatile Basic Software	Pentacam® AXL Wave	Pentacam® AXL	Pentacam® HR	Pentacam®
Fast Screening Report, 1 Large Color Map, Virtual Eye, Tomography, 4 Maps Refractive, General Overview, Anterior Segment Tomography, Topometric / KC Staging (Belin ABCD Keratoconus 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® AXL Wave	Pentacam® AXL	Pentacam® HR	Pentacam®
Screening Package	○	○	○	○
Cataract Package	○	○	○	○
Refractive Package	○	○	○	○
Contact Lens Fitting Package	○	-	○	-
Myopia Package incl. GRAS Modul	○	-	-	-
IOL Calculator	○	✓	○	-



✓ included ○ optional - not available

Find the **local OCULUS representative** in your area.



Scan here for **further information** on functions, whitepapers, studies and videos



Act today and ask for a **non-binding offer** for your new Pentacam®.



WWW.OCULUS.DE



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

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