

 MEDINOVĀA white, modern ophthalmic machine with a large black circular lens and a blue 'REVO 80' label on its side.

REVO 80

AS SIMPLE AS PRESSING *the start button*

A blue logo consisting of a square with a cross inside.

**OPTOPOL**  
technology

# REVO *lution starts again*

Our supreme experience in Spectral Domain OCT allows us to provide the market with a state of the art instrument which comes with new advanced technologies and remarkable simplicity of operation. The REVO 80 will expand the daily demands of any modern practice.

## OCT made simple as never before

Position the patient and press the START button to acquire examinations of both eyes. The Revo 80, guides the patient through the process with vocal messages to increase comfort and reduce patient chair time.

## New OCT standard - All functionality In One device.

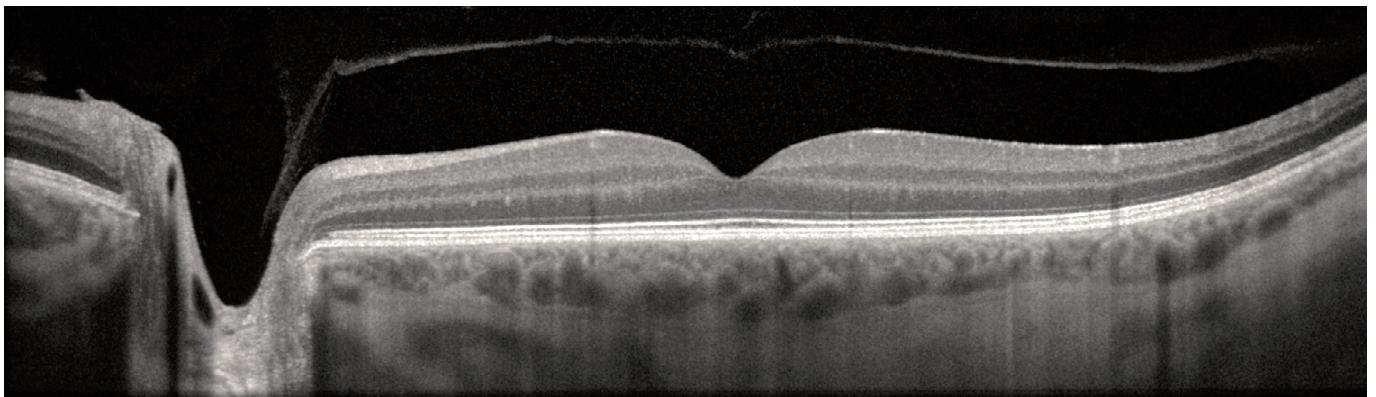
Once again REVO goes beyond the limits of standard OCT. With its new software, the device provides a full functionality from the retina to the cornea to combine the potential of several devices. With REVO you can measure, quantify, calculate and track changes from the cornea to the retina over time with just one OCT device.

## A perfect fit for every practice.

Small system footprint, various operator and patient positions and connection by a single cable allows the installation of REVO 80 into the smallest of examination room spaces. With its variety of examination and analysis tools, the REVO can easily function as a screening or advanced diagnostic device.

## High quality of OCT image

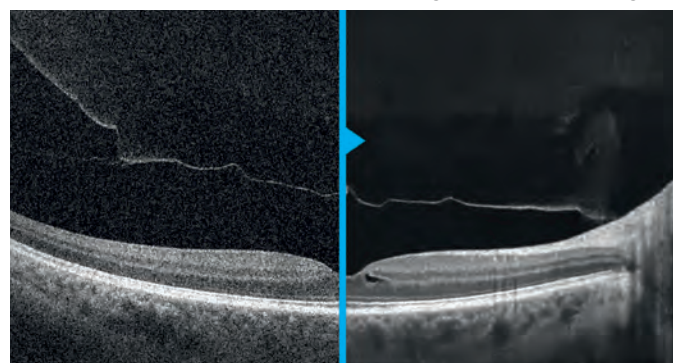
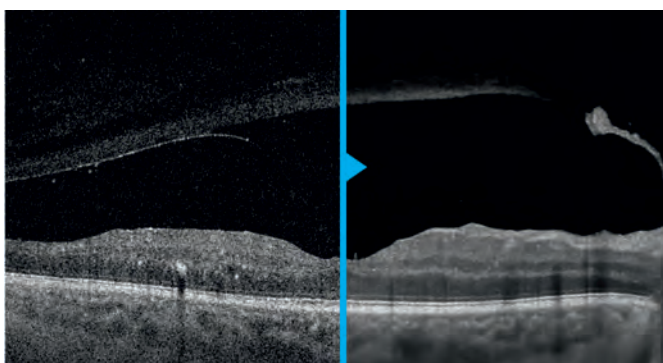
The noise reduction technology provides the finest details proven to be important for early disease detection.



### AI DENOISE

Improved tomogram quality powered by Artificial Intelligence. Advanced AI algorithms enhance the quality of a single tomogram to the level of an averaged tomogram obtained through multiple scanning.

Raw Tomogram / AiDenoise Tomogram





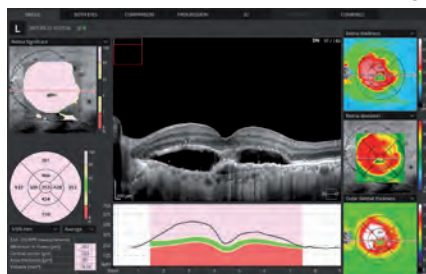
## RETINA

A single 3D Retina scan performs both Retina and Glaucoma analysis. The software automatically recognizes 8 retinal layers which assists with precise diagnosis and mapping of any changes in the patient's condition. A variety of result analysis and presentation methods allows the most suitable selection to increase efficiency.

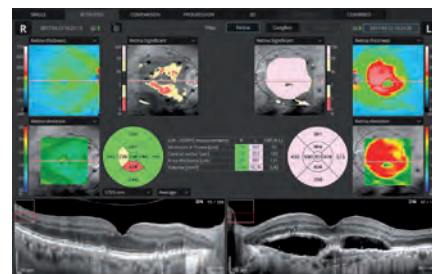
## FOLLOW-UP

REVO's standard high density scanning capability and blood vessel structure recognition enable a precise alignment of past and current scans. The operator can analyse changes in morphology, quantified progression maps and evaluate the progression trends.

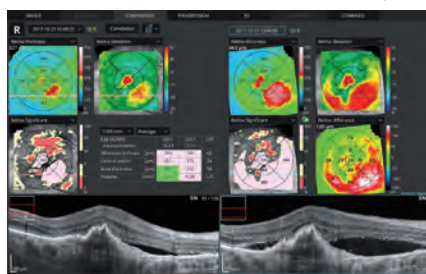
Single



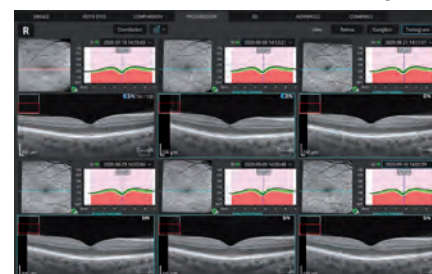
Both



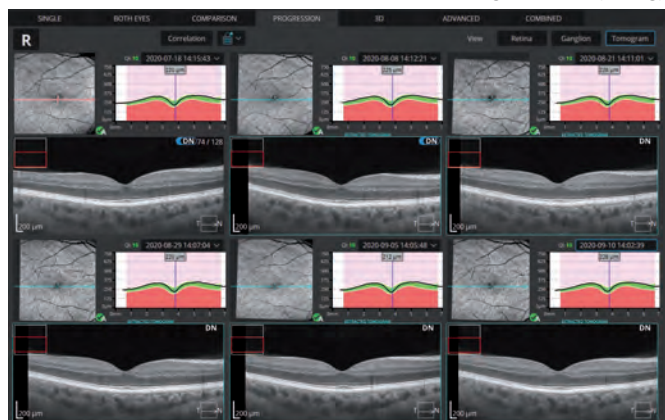
Comparison



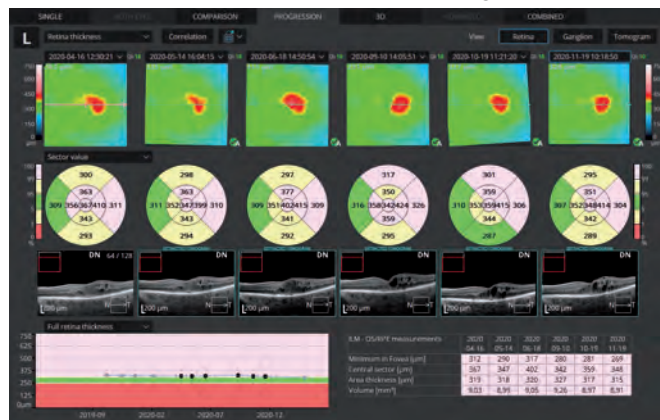
Progression



Progression Morphology



Progression Quantification



## EXTRACTED TOMOGRAMS

Increased follow-up precision. Advanced correlation now enables the creation of Extracted tomograms which compensate for image misalignment occurring between sessions to make cross-sectional images of the same area available during consecutive sessions.

## DICOM, EMR, NETWORK INTEGRATION

A proficient networking solution increases productivity and enhances the patient experience. It allows you to view and manage multiple examinations from review stations in your practice. It effortlessly facilitates patient education by allowing you to interactively show examination results to patients. Every practice will have different requirements which we can cater for by tailoring a bespoke service. DICOM connectivity allows the connection of the REVO into large hospital medical systems. It is possible to send worklists (MWL) and reports (C-storage) or the whole examination to viewing stations. CMDL interface enables the integration of the REVO into practice management systems. There is no additional charge for the networking and DICOM functionality.



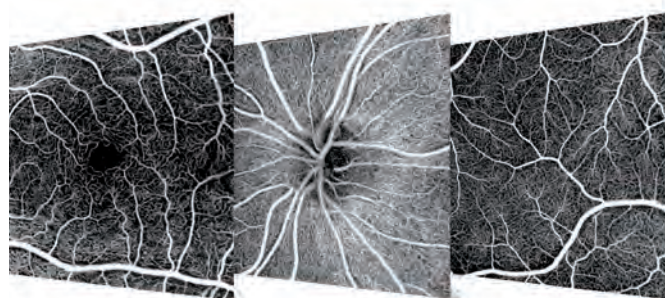
# REVO *lution continues*



## ANGIOGRAPHY SOCT<sup>1</sup>

This non-invasive dye free technique allows the visualization of the microvasculature of the retina. Both blood flow and structural visualization give additional diagnostic information about many retinal diseases. Angiography scan allows assessment of the structural vasculature of the macula, the periphery or the optic disc. Extremely short scanning times of 1,6 seconds in standard resolution or 3 seconds in high resolution.

Now Angiography OCT can become a routine in your diagnostic practice.



## ANGIOGRAPHY MOSAIC<sup>1</sup>

The Angiography mosaic delivers high-detail images over a large field of the retina. Available modes allow to see predefined region of the retina in a convenient way.

In manual mode it is possible to scan the desired region. Built-in analytics allow the user to see vascular layers, enface or thickness maps.

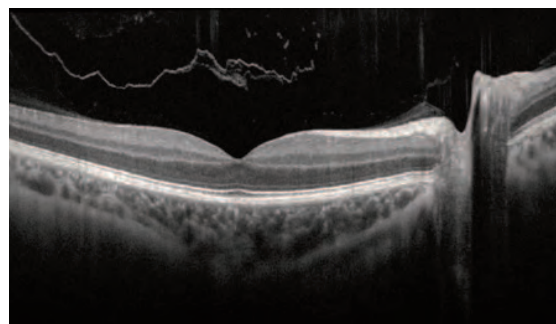
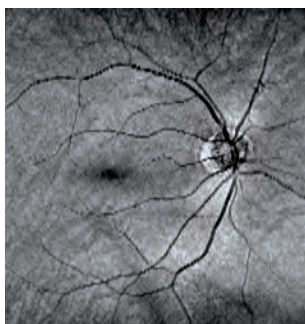
Dedicated FAZ, VFA tools provide easy tracking and quantification of changes.

Mosaic mode: 10x6 mm



## WIDEFIELD SCAN

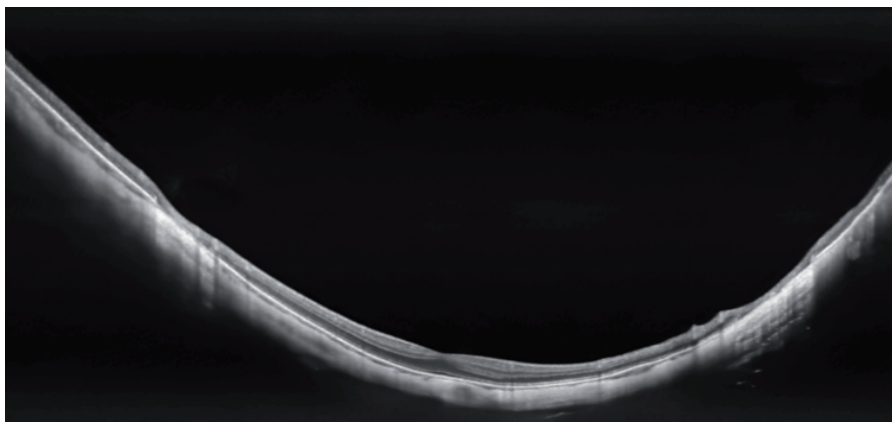
12x12 mm Widefield Central scan is perfect for fast and precise screening of the patient's retina.



## FULL RANGE

New Extended Depth™ Retina imaging, based on our Full Range technology, provides scans of increased depth for reliable and convenient observation of challenging cases. With scans presenting plenty of depth, this new imaging mode is perfect for diagnosing even highly myopic patients.

Central B-scan 12 mm scan, Full Range Mode



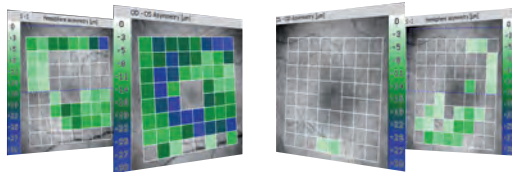
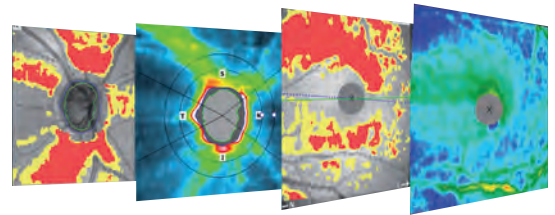
Images courtesy of Bartosz L. Sikorski MD, PhD

<sup>1</sup> an optional software module to purchase.



## GLAUCOMA

Comprehensive glaucoma analytical tools for quantification of the Nerve Fiber Layer, Ganglion layer and Optic Head with DDLS enable the user to perform precise diagnosis and monitoring of glaucoma over time.



With the Asymmetry Analysis of Ganglion layers between hemispheres and between eyes it is possible to identify and detect glaucoma in early stages and in non-typical patients.



## STRUCTURE & FUNCTION<sup>2</sup>

Invaluable combination of information about the functional quality of vision with comprehensive data on retinal Ganglion Cells, RNFL and Optic Nerve Head for both eyes on a single report page. The S&F report contains the following:

- VF sensitivity results (24-2/30-2 or 10-2)
- Total and Pattern Deviation probability graphs for VF results
- Reliability and Global indices for VF results
- Combined map of Structure & Function
- Ganglion cells analysis (GCL+IPL or NFL+GCL+IPL)
- ONH and NFL analysis including charts and comparison tables
- NFL Asymmetry Plot
- Nasal and Temporal sectors have been split to present structural changes better
- Compare exact numerical sensitivity values



The S&F report compares in a natural way the anatomical relationship between VF and RNFL/Ganglion maps.



## TOPOGRAPHY OCT<sup>1</sup>

T-OCT™ is a pioneering way to provide detailed corneal Curvature maps by using posterior dedicated OCT. Ante-rrior, Posterior surfaces and Corneal Thickness provide the True Net Curvature information. With the Net power a precise understanding of the patient's corneal condition comes easily and is free of errors associated with model-ling of posterior surface of the cornea. SOCT T-OCT module provides Axial maps, Tangential mas, Total Power map, Height maps, Epithelium and Corneal thickness maps.

Corneal topography module clearly shows the changes in the cornea on the difference map view. Customize favoured view by selecting from a variety of available maps and display options. Fully Automatic capturing with examination time of up to 0.2 sec makes testing quick and easy. Topography module provides: Full featured Corneal mapping of Anterior, Posterior and Real Precise Astigmatism Display Option (SimK: Anterior, Posterior, Real, Meridian and Semi-Meridian  $\phi$  3, 5, 7 mm zones).

## KERATOCONUS SCREENING

Easily detect and classified keratoconus with Keratoconus classifier. The classification is based on KPI, SAI, DSI, OSI and CSI. In the early stages of keratoconus the results can be complemented by Epithelium and Pachymetry maps.



<sup>1</sup> an optional software module

<sup>2</sup> connection with PTS software version 3.4 or higher is required



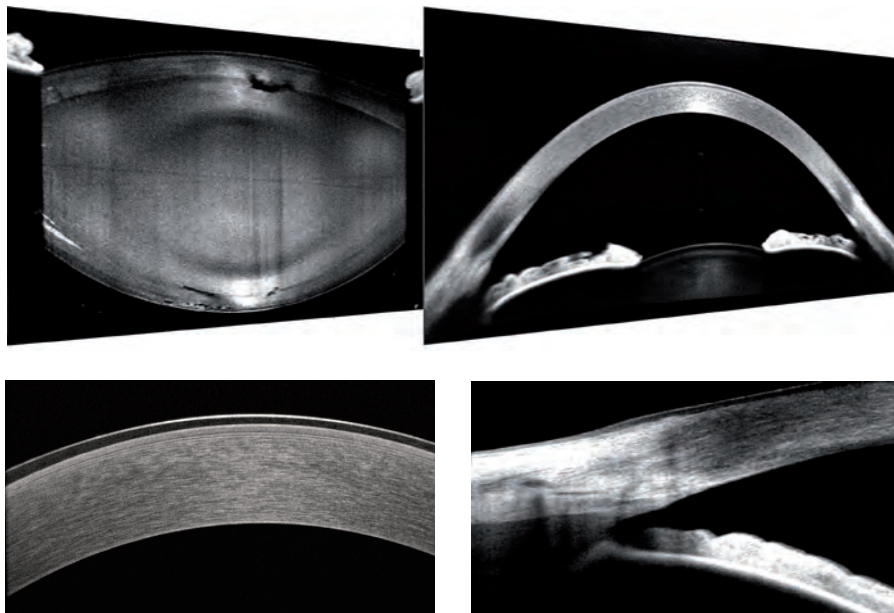
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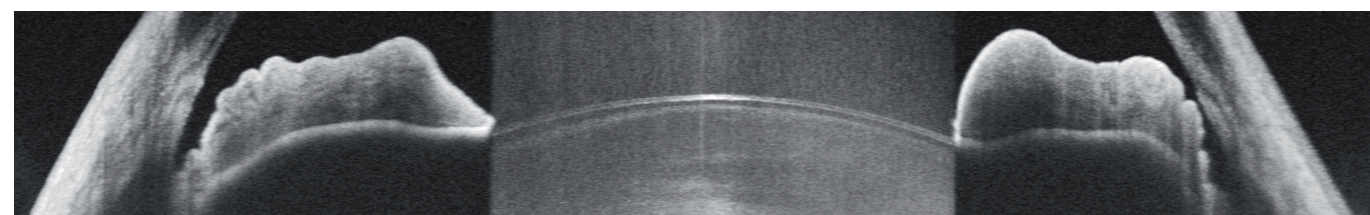
## ANTERIOR CHAMBER

Built-in anterior lens allows the user to perform the imaging of the anterior segment without installing additional lens or forehead adapter. Now you can display the whole anterior segment or focus on a small area to bring out the details of the image.

Anterior Chamber exam with a fast view of the whole Anterior Chamber make the evaluation of gonioscopy situation and the verification of cataract lens easier and faster.



OCT Gonioscopy

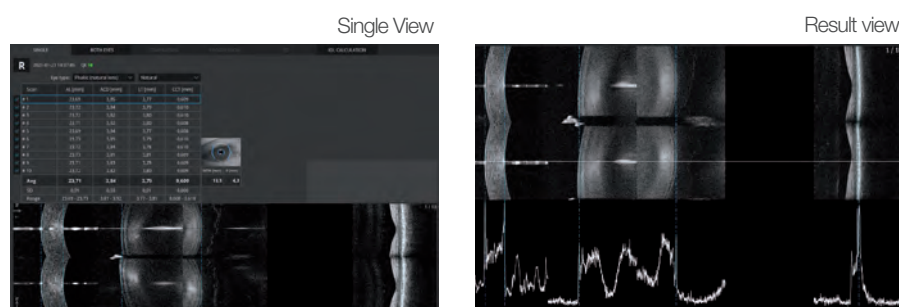


\* Images courtesy of Prof. Edward Wylegala MD, PhD



## BIOMETRY OCT<sup>1</sup>

B-OCT<sup>®</sup> Innovative method of using the posterior OCT device to measure ocular structure along eye axis. OCT Biometry provides complete set of Biometry parameters: Axial Length AL, Central Cornea Thickness CCT, Anterior Chamber Depth ACD, Lens Thickness LT, Pupil size P and White to White WTW.



## VISUALLY VERIFY YOUR MEASUREMENT

All measurement calipers are shown on all boundaries of OCT image provided by REVO. Now, you can visually verify, identify and if needed correct which structure of the eye has been measured.

IOL Calculation



## IOL Calculator<sup>3,4</sup>

IOL formulas allow the user to calculate IOL implant parameters. Our systems now support the latest IOL data base standard IOLCon.org so that you can always keep your library up-to-date.

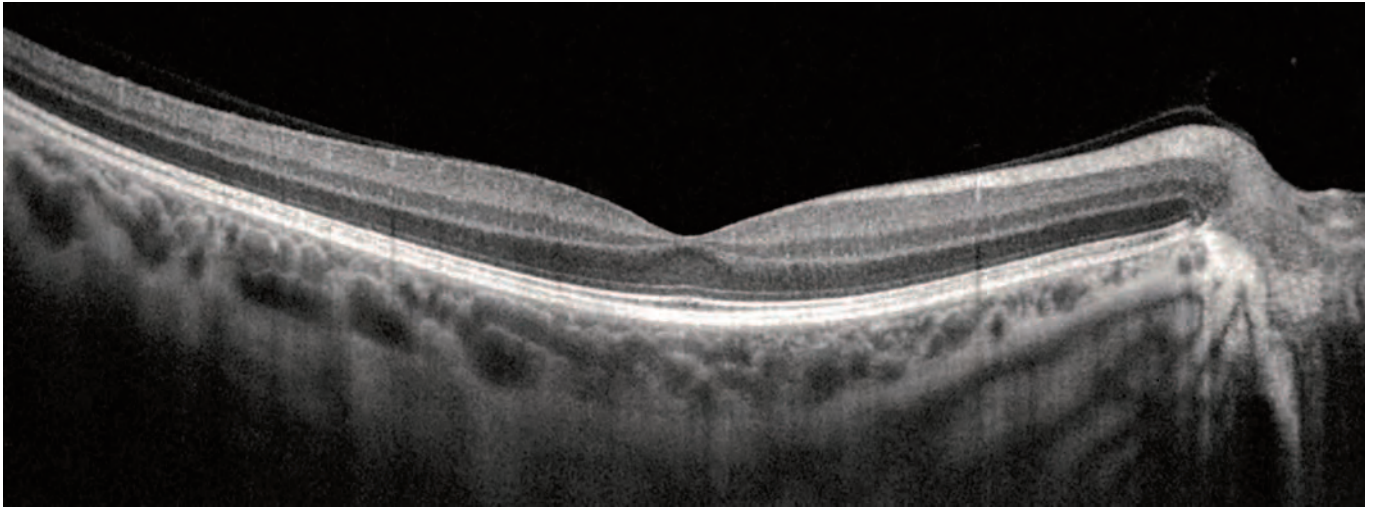


<sup>1</sup> an optional software module

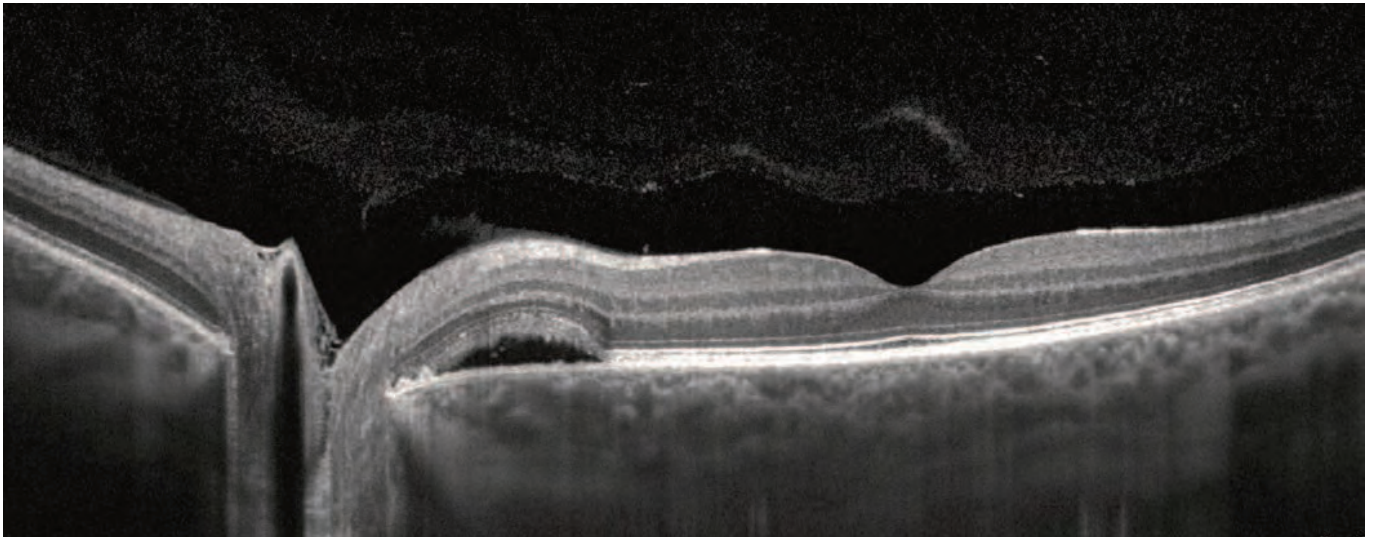
<sup>3</sup> Biometry module required

<sup>4</sup> IOL Calculator required separate licence

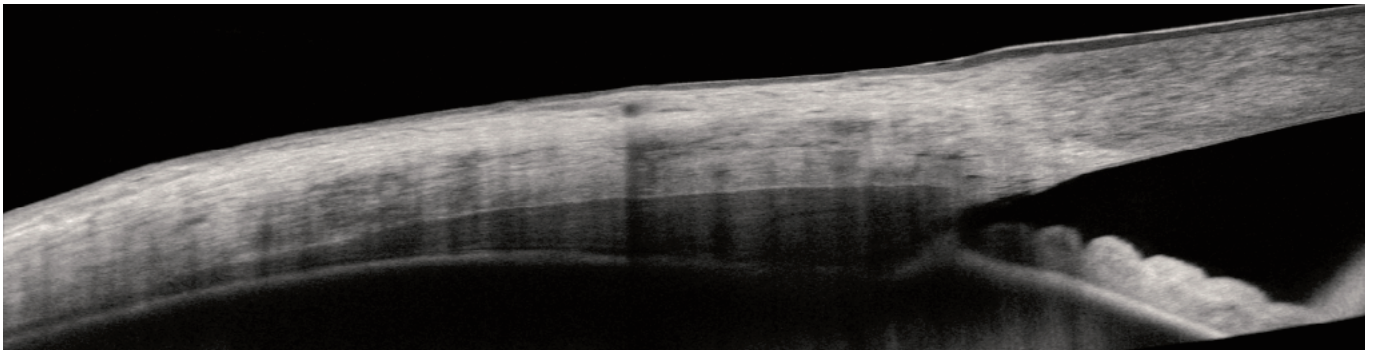
Choroidal observation



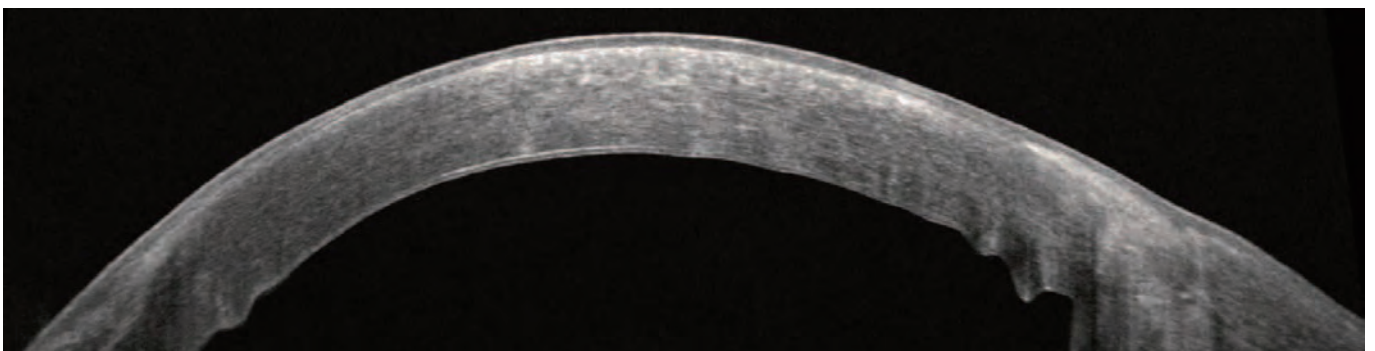
Wide Central scan



Sclera and Anterior Structure



Cornea wide scan





Technology	Spectral Domain OCT
Light source	SLED, wavelength 850 nm
Bandwidth	50 nm half bandwidth
Scanning speed	80 000 <sup>5</sup> / 60 000 measurements per second
Axial resolution	2.6 µm digital, 5 µm in tissue
Transverse resolution	12 µm, typical 18 µm
Overall scan depth	2.8 mm / ~6 mm in Full Range mode
Focus adjustment range	-25 D to +25 D
Scan range	Posterior 5 mm to 15 mm, Angio 3 mm to 6 mm, Anterior 3 mm to 18 mm
Scan types	3D, Angio <sup>1</sup> , Full Range Radial, Full Range B-scan, Radial, B-scan, Raster, Cross
Fundus image	Live Fundus Reconstruction
Alignment method	Fully automatic, Automatic
Retina analysis	Retina thickness, Inner Retinal thickness, Outer Retinal thickness, RNFL+GCL+IPL thickness, GCL+IPL thickness, RNFL thickness, RPE deformation, IS/OS thickness
Angiography OCT <sup>1</sup>	Superficial Plexus, Deep Plexus, Outer Retina, Choriocapillaries, Choroid, Depth Coded, Custom, Enface, Thickness; FAZ, VAS, NFA tools
Angiography mosaic	Acquisition method: Auto, Manual Mosaic modes: 10x6 mm, Manual up to 12 images
Glaucoma analysis	RNFL, ONH morphology, DDLS, Ganglion analysis as RNFL+GCL+IP and GCL+IPL, OU and Hemisphere asymmetry, Structure+function <sup>2</sup>
Biometry OCT <sup>1</sup>	AL, CCT, ACD, LT, P, WTW
IOL Calculator <sup>3,4</sup>	IOL Formulas: Hoffer Q, Holladay I, Haigis, Theoretical T, Regression II
Corneal Topography Map <sup>1</sup>	Axial [Anterior, Posterior], Refractive Power [Kerato, Anterior, Posterior, Total, Anterior, Posterior], Net, Axial True Net, Equivalent Keratometer, Elevation [Anterior, Posterior], Height
Anterior	Pachymetry, Epithelium map, Stroma map, AIOP, Angle Assessment, AOD 500/750, TISA 500/750
Anterior Wide Scan	Anterior Chamber Radial, Anterior Chamber B-scan, Angle to Angle view
Connectivity	DICOM Storage SCU, DICOM MWL SCU, CMDL, Networking
Fixation target	OLED display (the target shape and position can be changed), external fixation arm
Dimensions (WxDxH) / Weight	479 mm x 367 mm x 493 mm / 29 kg
Power supply / consumption	100 V to 240 V, 50/60 Hz / 90 VA to 110 VA

<sup>1</sup> an optional software module

<sup>2</sup> connection with PTS software version 3.4 or higher is required

<sup>3</sup> Biometry module required

<sup>4</sup> IOL Calculator required separate licence

<sup>5</sup> scanning speed is optional hardware feature and has to be selected when ordering

Local Distributor:

**MEDINOV**  
oftalmologia

[www.optopol.com](http://www.optopol.com)

OPTOPOL Technology Sp. z o. o.  
ul. Żabia 42, 42-400 Zawiercie, Poland  
Tel/Fax: +48 32 6709173  
✉ [info@optopol.com](mailto:info@optopol.com)

via Antiniana, 2i | 80078 Pozzuoli | NA (Italy)  
tel. +39 081 770 73 27 / +39 081 770 31 98 | fax +39 081 546 32 99  
[info@medinovasrl.com](mailto:info@medinovasrl.com) / [www.medinovasrl.com](http://www.medinovasrl.com)