# REVO FC

OCT | Fundus Camera

OPTOPOL
technology

Our supreme experience in Spectral Domain OCT technology allows us to provide you with a single versatile device featuring high resolution OCT and true colour fundus imaging for time and space efficiency.

SOCT with the complete Fundus Camera functionality

The combination of an All in One OCT technology with a Full Colour Fundus Camera in one compact system gives you high quality OCT images and a detailed colour image for a multipurpose diagnosis. Simultaneous capture of color fundus images of eye diseases and OCT examinations in a single shot saves time and space. Now you can use the REVO FC in the way you need it:

- as a device providing simultaneous OCT and fundus images
- as a Full Colour Fundus Camera
- only for high quality OCT imaging including OCT-A
- as a Optical Biometry device
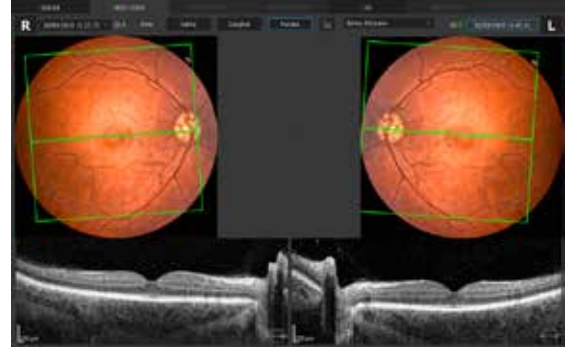
Combine a high quality OCT image with the comprehensive analysis of the layer thickness and maps with a colour fundus image for a greater diagnostic certainty. A combination that makes the examination complete and easy.

OCT made simple as never before

Position the patient and press the START button to acquire examinations of both eyes. The REVO FC, guides the patient through the process with the use of vocal messages which increases comfort and reduces 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, our Revo enables a full functionality from the cornea to the retina. It brings benefits by combining the potential of several devices. With REVO you can measure, quantify, calculate and track changes from the cornea to the retina including Axial measurement 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 FC into the smallest of examination room spaces. Revo's variety of examination and analysis tools enables it to effortlessly 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.
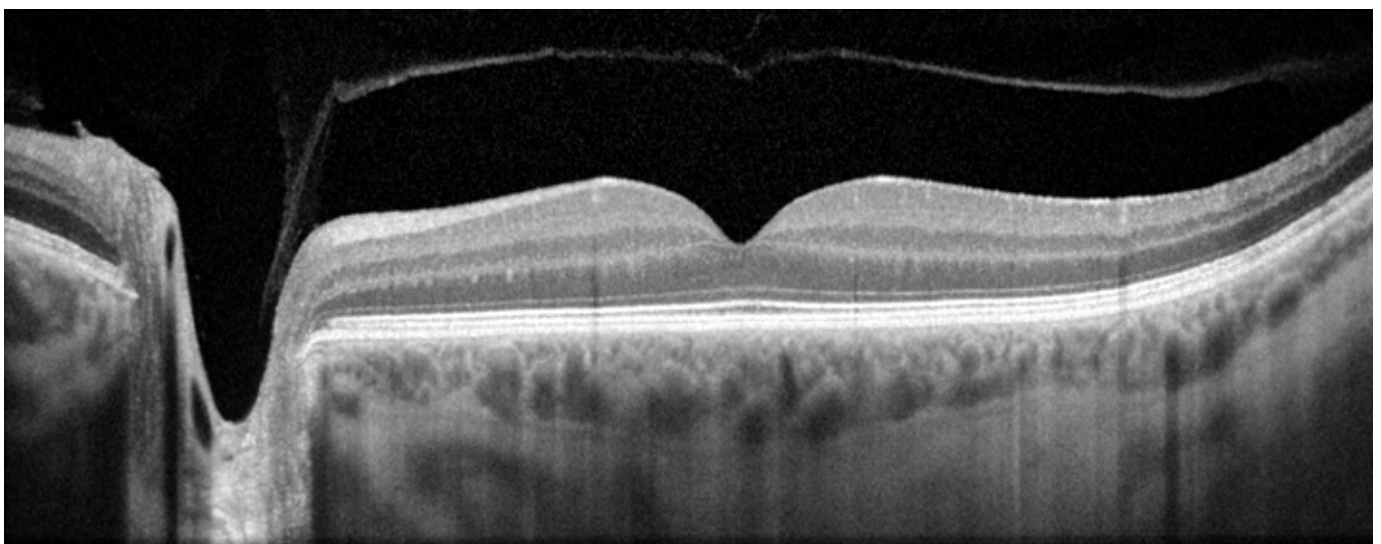
FC FUNDUS CAMERA

What makes the REVO FC truly unique is its integrated non-mydriatic 12.3 Mpix Fundus Camera into all in one OCT device capable of capturing detailed colour images of ultra-high quality. The REVO FC is fully automated, safe and easy to use.

The advanced optical system ensures high quality imaging at 45° viewing angle.

Color Fundus image capture is possible with a pupil as small as 3.3 mm. For OCT 2.4 mm is enough.

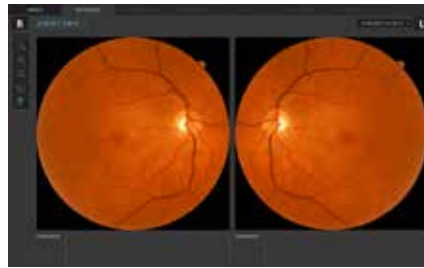Easy to use Fundus image processing tools deliver a stunning retinal image.

Available modes allow to see detailed photos of a single or both eyes as well as a time comparison of the fundus photos.
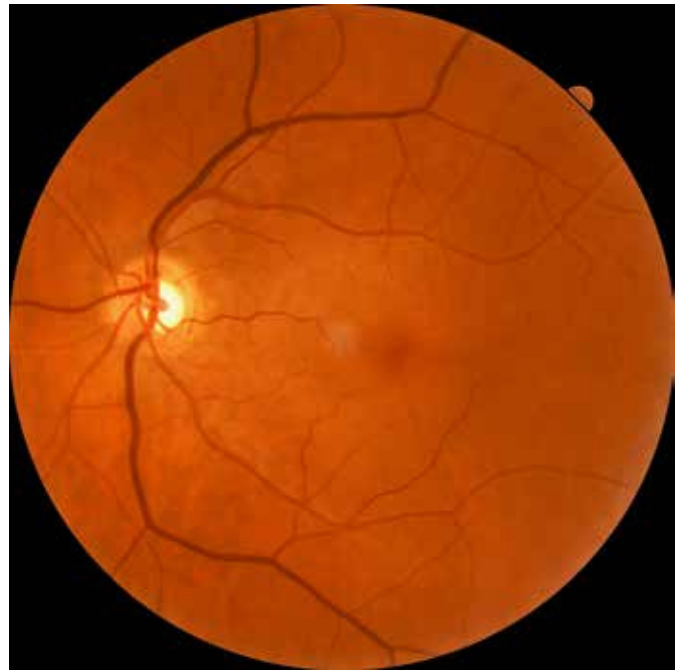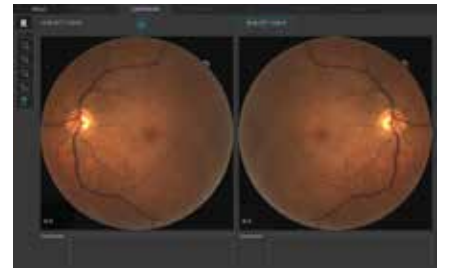
Full screen fundus photo

Both eyes fundus photo view

Fundus photo comparison view

RA ANGIOGRAPHY SOCT[1]

This non-invasive dye free technique allows the visualization of the microvasculature of the retina. Blood flow and structural visualization and quantification will give additional information in the diagnosis of many retinal diseases. OCT Angiography scan allows assessment of the structural vasculature of the macula, periphery or the optic disc.

ANGIO-ANALYTICAL TOOLS

FAZ – Foveal Avascular Zone measurements allow to quantify and monitor changes in Superficial and Deep vascular layer.

VFA – Vascular Flow Area allows to examine the pathologically affected area and precisely measure the area covered by vascularization.

NFA- allows to quantify the Non Flow Area on the OCT Angio examination

ANGIOGRAPHY MOSAIC[1]

Mosaic mode: 10x6 mm

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

Manual mode allows to scan desired region. Analysis tools allow to see vascular layers, enface or thickness maps.
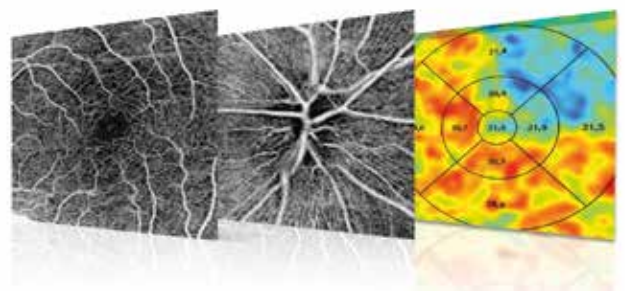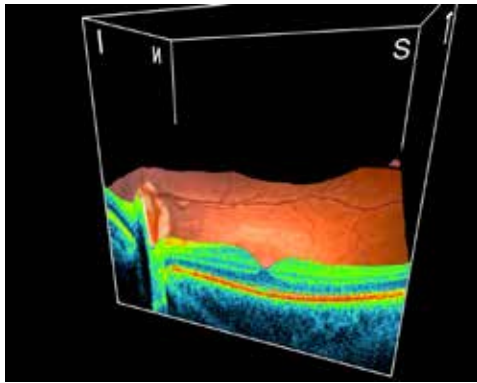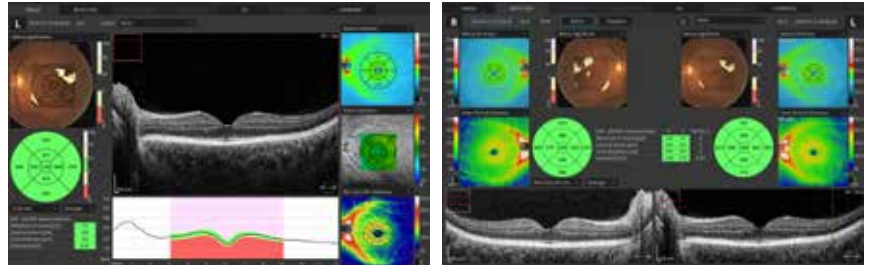
[1] an optional software module to purchase

R RETINA

Single

Both

A single 3D macula scan performs both Retina and Ganglion cells analysis. The software automatically recognises 8 retinal layers which assists with a precise diagnosis and the mapping of any changes in the patient's condition. A variety of result analysis and presentation methods allows for the best selection suitable to increase efficiency of work.
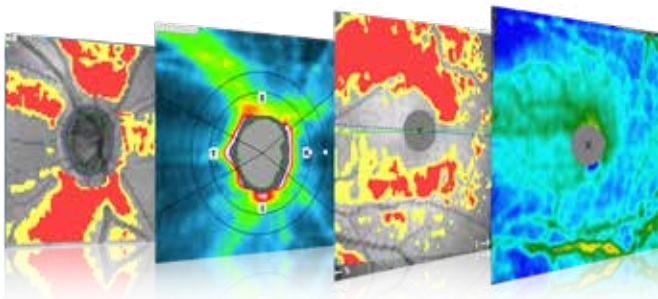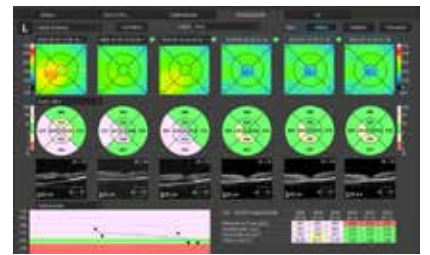
FOLLOW UP

Revo's standard high density scanning capability and blood vessel structure recognition enable a precise alignment of past and current scans

Operator can analyze changes in morphology, quantified progression maps and evaluate the progression trends

Progression Morphology
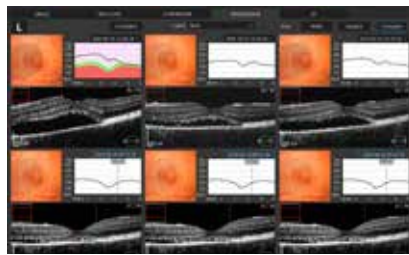
Progression Quantification

Asymmetry Analysis of Ganglion layers between hemispheres and between eyes allow the identification and detection of glaucoma in its early stages and in non-typical patients.

D GLAUCOMA

Comprehensive glaucoma analysis tools for quantification of Nerve Fiber Layer, Ganglion layer Optic Nerve Head with DDLS allows for precise diagnosis and the monitoring of glaucoma over time.
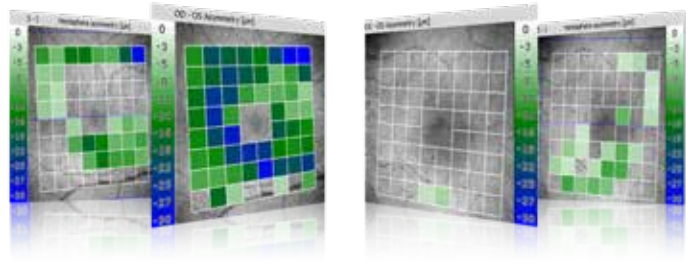

S+F STRUCTURE & FUNCTION[2]

Invaluable combination of information about the functional quality of sight 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 cell analysis (GCL+IPL or NFL+GCL+IPL)
- ONH and NFL analysis including charts and comparison tables
- NFL Assymetry plot

[2] via connection with PTS software version 3.4 or higher

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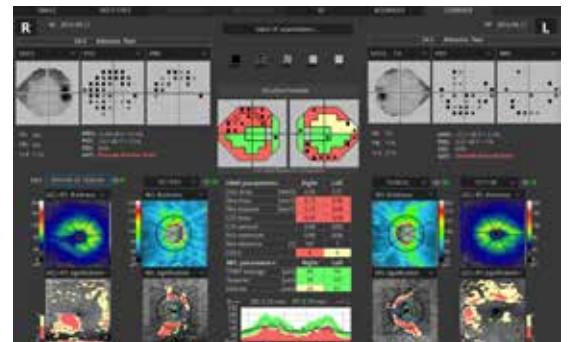
The S&F report compares in a natural way the anatomical relationship between VF and RNFL/ Ganglion maps.

WIDEFIELD SCAN

12x12 mm Widefield Central scan is perfect for fast and precise screening of the patient's retina.
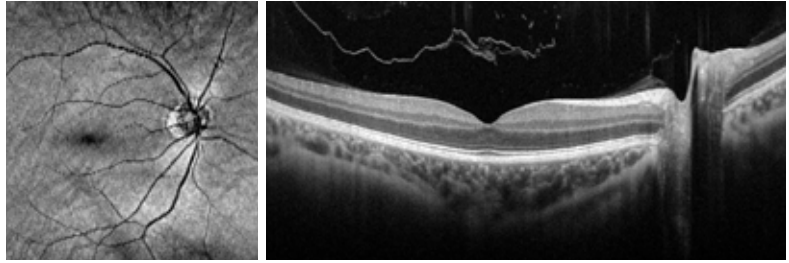
Peripheral scanning reveals diseases in far periphery.
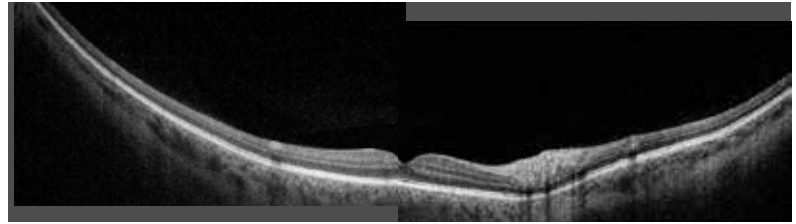
Combined view of two examinations of peripheral scan 12mm + 12 mm. Done in external software.

TOPOGRAPHY OCT[1]

Keratoconus   Astigmatysm   Normal

T-OCT™ is a pioneering way to provide detailed corneal Curvature maps by using a posterior dedicated OCT. Anterior, Posterior surface and Corneal Thickness allow to provide the True Net Curvature information. With Net power, the precise understading of the patient's corneal condition comes easily and is free of errors associated with modelling of posterior surface of the Cornea.
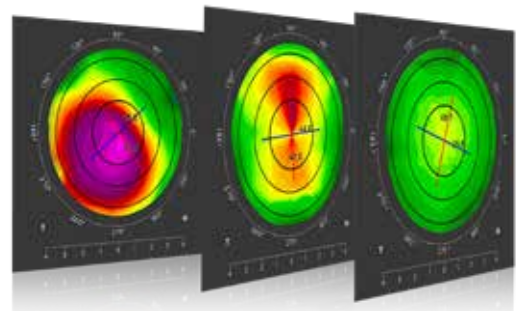
KERATOCONUS SCREENING
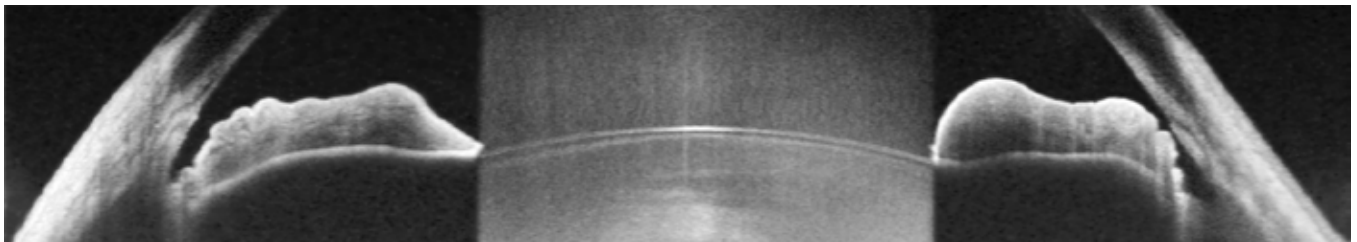Easily detect and classify keratoconus with Keratoconus classifier.

ANTERIOR

For a standard anterior examination, no additional lens is required. This allows the examiner to quickly complete the scanning procedure.

Additional adapter provided with the device increases the range of clinical applications in Anterior chamber observation.
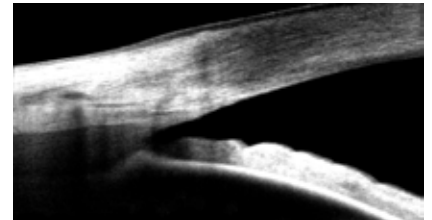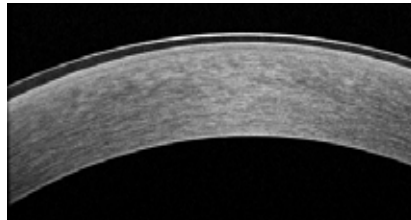
OCT Goniscopy

BIOMETRY OCT[1]

B-OCT® Innovative method of using a posterior OCT device to measure ocular structure along eye axis. OCT Biometry provides a complete set of Biometry parameters: Axial Length AL, Central Cornea Thickness CCT, Anterior Chamber Depth ACD, Lens Thickness LT.

Single view

Result review
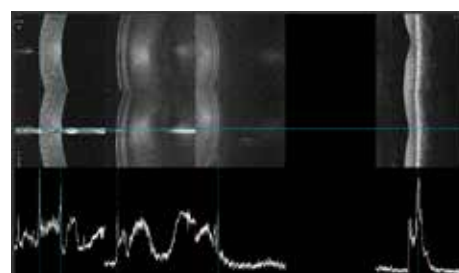
VISUALLY VERIFY YOUR MEASUREMENT

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.

[1] an optional software module to purchase

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FUNDUS CAMERA

Type	Non-mydriatic fundus camera
Photography type	Color
Angle of view	45 × (1 ± 5 %)°
Min. pupil size for fundus	3.3 mm
Camera	12.3-megapixel CCD camera

OPTICAL COHERENCE TOMOGRAPHY

Technology	Spectral Domain OCT
Light source	SLED
Bandwidth	50 nm half bandwidth
Scanning speed	80 000 measurements per second
Axial resolution	5 µm in tissue, 2.6 µm digital
Transverse resolution	12 µm, typical 18 µm
Overall scan depth	2.4 mm
Focus adjustment range	-25 D to +25 D
Scan range	Posterior 5 mm to 12 mm, Angio 3 mm to 9 mm, Anterior 3 mm to 16 mm
Scan types	3D, Angio[1], Radial (HD), B-scan (HD), Raster (HD), Cross (HD), TOPO, AL
Fundus alignment	IR, Live Fundus Reconstruction
Alignment method	Fully automatic, Automatic, Semi Manual
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[1]	Supercial plexus, RPCP, Deep Plexus, Outer Retina, Choriocapilaries, Depth Coded, Custom, Enface, Thickness map, FAZ, VFA, NFA, Quantification Vessel and Skeleton Area Density
Glaucoma analysis	RNFL, ONH morphology, DDLS, OU and Hemisphere asymmetry, Ganglion analysis as RNFL+GCL+IP and GCL+IPL, Structure + Function[2]
Angiography mosaic	Acquistion method: Auto, Manual Mosaic modes: 10 mm × 6 mm, Manual up to 12 images
Biometry OCT[1]	AL, CCT, ACD, LT
Anterior No lens/adapter required	Pachymetry, LASIK ap, Angle Assessment, AIOP, AOD 500/750, TISA 500/750, 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 xation arm
Dimensions (W×D×H) / Weight	367 mm × 480 mm × 504 mm / 30 kg
Power supply / consumption	100 V to 240 V, 50/60 Hz / 115 VA to 140 VA

[1] optional software module to purchase
[2] via connection with PTS software version 3.4 or higher

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