

FUNDO
Fundus Camera

NEW STANDARD

Widefield. Multimodal.



One platform. Every retinal perspective.

 **OPTOPOL**
technology

FUNDO – MULTIMODAL WIDEFIELD FUNDUS CAMERA

The FUNDO redefines multimodal fundus and anterior segment imaging by combining widefield retinal imaging, true-color reproduction, fully automated examinations, AI-powered support, and seamless integration into the clinical workflow.

It is an automatic, non-mydriatic widefield fundus camera designed for efficient retinal diagnostics. With a single 60° widefield acquisition, the FUNDO captures a broad view of the fundus — from the macula to the retinal periphery.

The system provides multimodal imaging, including color fundus photography, infrared fundus imaging, green and blue fundus autofluorescence, fluorescein angiography, indocyanine green angiography, anterior segment color photography, and meibography, supporting detailed assessment of ocular structures across a wide range of clinical applications.

Fully automated operation—including automatic pupil detection, alignment, focusing, exposure adjustment, image acquisition, and automated voice guidance—streamlines the examination process, supports repeatable image quality, and improves efficiency in everyday clinical practice.



IMAGING TAILORED TO DIAGNOSTIC NEEDS

A comprehensive range of imaging modalities supports detailed assessment of ocular structures:



COLOR FUNDUS IMAGE

True-color fundus photography providing essential information for clinical documentation and assessment of the retina, optic disc, macula, retinal vasculature, and retinal periphery, including visible vascular, macular, pigmentary, and other fundus abnormalities.



Advanced Fundus Analysis Tools

A comprehensive set of image processing and analysis tools enables efficient assessment, documentation, and follow-up of retinal conditions.

Available functions include:

- single-eye and bilateral imaging,
- chronological comparison of fundus photographs, including x4 and x8 progression views, for monitoring disease progression,
- linking a fundus image to multiple REVO and REVO2 OCT scans and visual field test results (FUNDO, REVO & REVO 2 work on a common patient database)

The set of measurement tools includes Area, Distance, and C/D, while the additional image enhancement filters include Emboss+, Emboss-, Cobalt, Digital Cobalt, and Digital Red-Free.

Fundus Photo Both Eyes View



Fundus Photo Comparison View





FA

— fluorescein angiography for evaluation of retinal vascular perfusion, vascular leakage, microaneurysms, neovascularization, inflammatory vascular changes, and areas of capillary non-perfusion or ischemia.



ICGA

— indocyanine green angiography supporting assessment of choroidal circulation, choroidal vasculature, polypoidal lesions, occult choroidal neovascularization, and deeper chorioretinal vascular abnormalities.



FAF GREEN

Green fundus autofluorescence supporting assessment of metabolic and structural alterations in the retinal pigment epithelium (RPE) and outer retina, particularly in chorioretinal and degenerative retinal conditions.



FAF BLUE

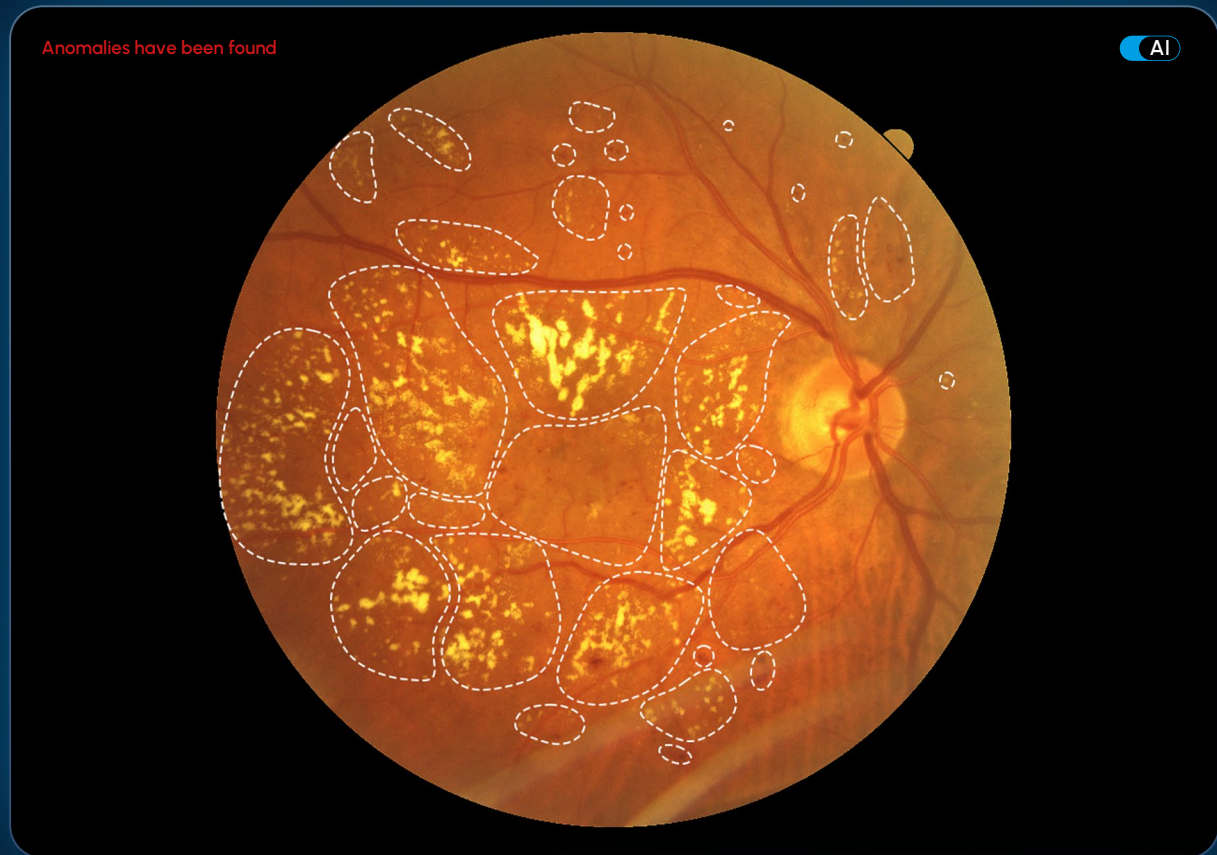
Blue fundus autofluorescence providing complementary information on RPE integrity, lipofuscin-related changes, and outer retinal abnormalities.





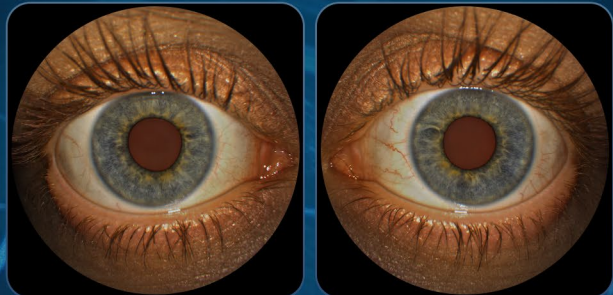
AI-POWERED FUNDUS ANOMALY DETECTION

The AI-powered algorithm automatically analyzes fundus images and highlights areas with potential abnormalities. By drawing attention to subtle or suspicious changes, it supports efficient image review and clinical assessment.



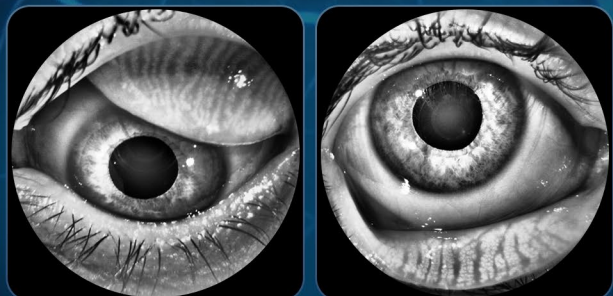
ANTERIOR SEGMENT PHOTOGRAPHY

— anterior segment color imaging supports clinical documentation and assessment of the ocular surface, cornea, iris, pupil area, and other visible anterior segment findings.



MEIBOGRAPHY

— non-invasive infrared imaging of the Meibomian glands, supporting assessment of their structure and condition. This function helps in the diagnosis of Meibomian Gland Dysfunction (MGD), one of the leading causes of evaporative dry eye disease, and facilitates communication of examination results to the patient.





ULTRA-WIDEFIELD FUNDUS IMAGING

FUNDO provides retinal coverage of up to $\sim 200^\circ$ when measured from the center of the eye. Using up to nine fixation positions, the fully automated Mosaic mode captures peripheral retinal areas and creates panoramic true-color images without routine pupil dilation.

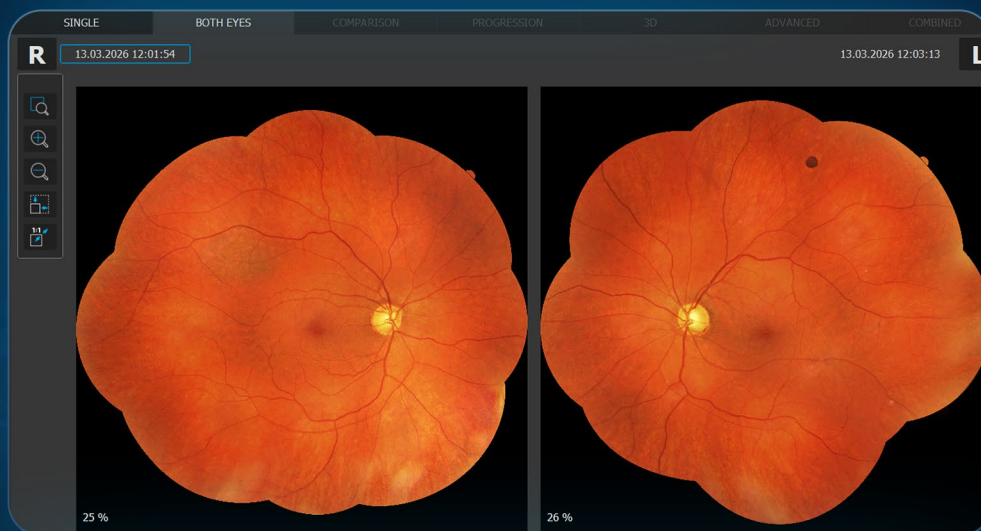


Five configurations are available:

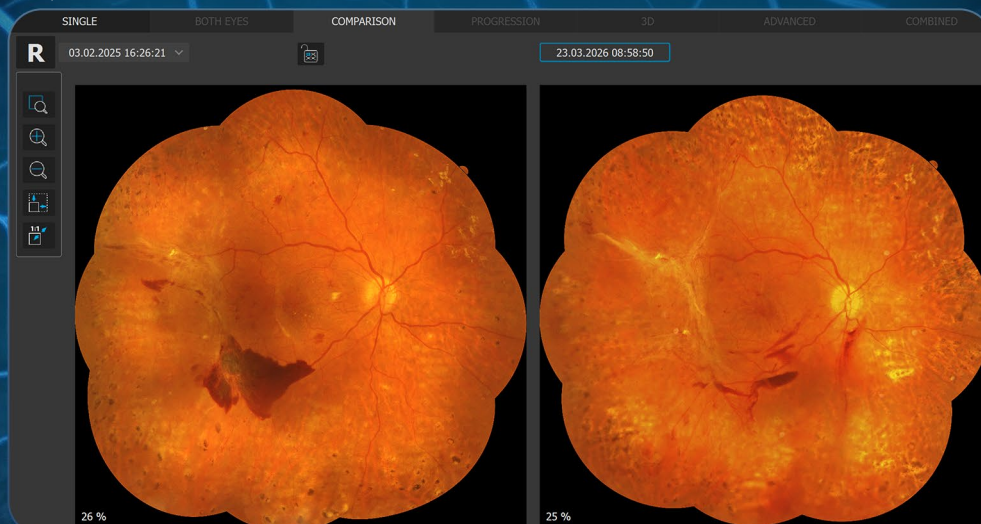
- Horizontal Mosaic $\times 3$,
- Vertical Mosaic $\times 3$,
- Mosaic $\times 5$,
- Mosaic $\times 9$,
- Custom Mosaic $\times 2-9$.

A unique binocular view enables side-by-side comparison of mosaic images from both eyes.

Both Eyes View



Comparison View



ADVANCED FUNDUS IMAGING FOR EVERYDAY CLINICAL PRACTICE



A WIDE PERSPECTIVE OF THE RETINA

Setting a new standard in widefield imaging, the FUNDO captures a 90° view of the fundus from the macula to the retinal periphery in a single acquisition.



AUTOMATION THAT SAVES TIME

Automatic pupil detection, alignment, focus and exposure adjustment, image acquisition, and automated voice guidance support fast, consistent, and repeatable examinations.



COMFORT WITHOUT ROUTINE MYDRIASIS

Non-mydriatic technology enables comfortable retinal imaging without routine pupil dilation in screening examinations. Imaging through small pupils supports an efficient examination workflow and helps reduce the need for dilating drops.



DETAILED CLINICAL IMAGING

The 20.3 MP CMOS camera provides high-resolution imaging for precise assessment of the retina, optic disc, and retinal vessels, helping to identify subtle changes.



CONNECTED DIAGNOSTICS AND FLEXIBLE DATA EXPORT

Through the REVO application, the device integrates with OPTOPOL OCT and visual field systems, supporting an integrated diagnostic workflow. Multi-station review, results management, DICOM compatibility, network connectivity, and export to a selected location enable efficient and flexible data exchange.



READY FOR EVERY PRACTICE

The compact desktop design enables easy integration in a variety of clinical settings — from ophthalmology practices to screening facilities. It allows the practitioner to position themselves comfortably relative to the patient, whether face-to-face, side-by-side, or in a parallel arrangement.

TECHNICAL SPECIFICATIONS

Type	Non-mydriatic automatic fundus camera
Photograph type	Color Fundus/Anterior, IR Fundus/Anterior, FAF - green*, FAF - blue*, FA*, ICGA*
Angular field of view: eye angle – measured relative to the center of the eyeball itself, (visual angle – measured relative to Nodal point)	
Standard pupil	90° (60°) ± 5 %
Small pupil	67° (45°) ± 5 %
Mosaic field of view: eye angle – measured relative to the center of the eyeball itself, (visual angle – measured relative to Nodal point)	
Standard pupil	198° (132°) ± 5 %*
Min. pupil size	3.3 mm (Small pupil)
Camera	20.3 MP CMOS
Flash adjustment, Gain, Exposure	Auto, Manual
Intensity levels	High, Normal, Low
Focus adjustment range	-25 D to +25 D
Operating distance	31 mm
Alignment method	Fully automatic, Automatic, Manual
Internal fixation target	OLED display with adjustable target shape, position, steady/blinking light mode, and blink rate
External fixation target	Yes
Dimensions	490 mm (L) × 350 mm (W) × 530 mm (H)
Weight	19 kg
Power supply	(100 to 240) V, 50 / 60 Hz
Power consumption	(90 to 110) VA

* - optional feature. Selectable during the ordering process.

The specification is for informational purposes only and may be subject to change during the conformity assessment process.

Designed & Manufactured in Europe



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