



OPTOPOL
technology

Automated Perimeter Series



ASTRAL
Automated Perimeter

HORIZON
Automated Projection Perimeter

Fast and precise perimetry, *perfected*

FAST AND PRECISE PERIMETRY, PERFECTED



Optopol Automated Perimeter Series

Optopol perimeters include all of the latest visual field testing approaches, saving time and delivering cutting edge precision and reliability. Intuitive software with powerful networking and EMR integration, combined with maintenance free and reliable hardware, creates the best tool for visual field testing.



VOICE GUIDE

Voice messages assist the operator and the patient throughout the examination. The list of available languages is constantly increasing.



EYE TRACKING

Eye Tracking analyzes pupil movements and assures supreme reliability of test results. Eye movements are recorded and presented on a graph. The test is paused until the proper fixation is restored.



BLINK CONTROL

No stimuli are omitted due to normal blinking. The test is put on hold until the eye is opened again. If needed, the stimulus exposure is repeated.

ALL THAT YOU NEED

- Complete set of standard perimetry tests.
- Variety of threshold algorithms and screening techniques.
- Binocular Driver's Test, Flicker, perimetry and Blue on Yellow*.
- Complete palette of analysis tools for quick and thorough assessment of visual fields.
- Evaluation of peripheral field loss.
- Gold standard test reports.
- GHT and sector analysis.
- Defect Progression Analysis tool.
- Standardized global indices (HFA, Octopus).
- Tools for glaucoma and neuro management.

* Blue on Yellow is available with HORIZON



ZETA™ THRESHOLDING IN 3 MINUTES*

ZETA™ strategies – fast and reliable examination with precise threshold estimates. Available in Standard, Fast and Faster variant.



DPA™ ANALYSIS

Defect Progression Analysis – inter-test analysis and judgement on defect progression. Separation of short term fluctuations from real VF defects.



HEAD TRACKING

Monitoring of the head position throughout the test. Adjusts the chin-rest position to align the pupil.



IMPORT HISTORICAL DATA**

Import database from compatible devices to the perimeter software. Easy and user friendly access to the patient's historic results via the application.



EYESEE™ EYE RECORDING***

The EyeSee™ module records eye preview images during stimuli exposures and displays them when reviewing the test result.

* Test duration depends on patient condition
** Check compatibility at your local distributor
*** V-Eye™ in the US

ASTRAL

Automated Perimeter

The Astral brings the world's most popular visual field patterns, 30-2 and 24-2, into a compact device

Despite its compact size, the Astral offers cutting-edge design and software capabilities. With the 170° horizontal and 110° vertical testing range**, the device is more than capable of disease management. From precise macula thresholding to the binocular Esterman driving test – everything is within reach.

- Compact and robust design
- White on white testing
- Goldmann standard bowl and stimulus
- 170° horizontal and 110° vertical testing range**
- 30-2, 24-2, and 10-2 testing fields
- Ptosis testing (Sup 44 test field)
- Thresholding on 24-2 and 30-2 in 3-4 minutes*
- Standard style printouts
- 24-2C and 30-2C testing field variants
- Levelling support available





HORIZON

Automated Projection Perimeter

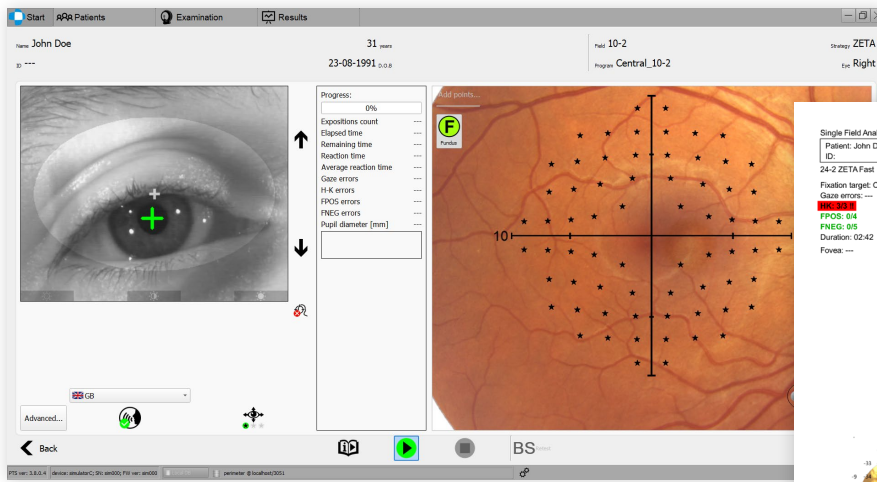
Where the ergonomic design meets the requirements of modern visual field evaluation. Performing everything from a quick screening test to kinetic perimetry is simpler than ever before. The Horizon brings to you one of the world's largest field testing ranges and an array of options, together with all Goldmann stimuli sizes and colors used in perimetry. The Horizon sets a new standard for full-featured projection perimeters.

Untethered Clinic Workflow

The Horizon perimeter adapts beautifully to modern medical environments. Complete with an integrated PC included in the package, it offers a compact, all-in-one setup that saves valuable desk space. To elevate your clinical efficiency, the system breaks free from traditional desktop setups—enabling fully functional control from a web browser. Whether you prefer using a smartphone, a tablet, or a computer, you can effortlessly operate the device and review data from the palm of your hand, bringing unprecedented mobility to your daily visual field testing.

- Complete set of static perimetry strategies
- Automatic and manual kinetic perimetry
- 180° horizontal and 140° vertical testing range**
- Aspherical bowl for compact dimensions
- All Goldmann stimuli sizes and colors
- 30-2, 24-2, and 10-2 testing patterns
- Ptosis testing (Sup 64 test field)
- Standard style printouts
- LED projection light source
- 24-2C and 30-2C testing field patterns

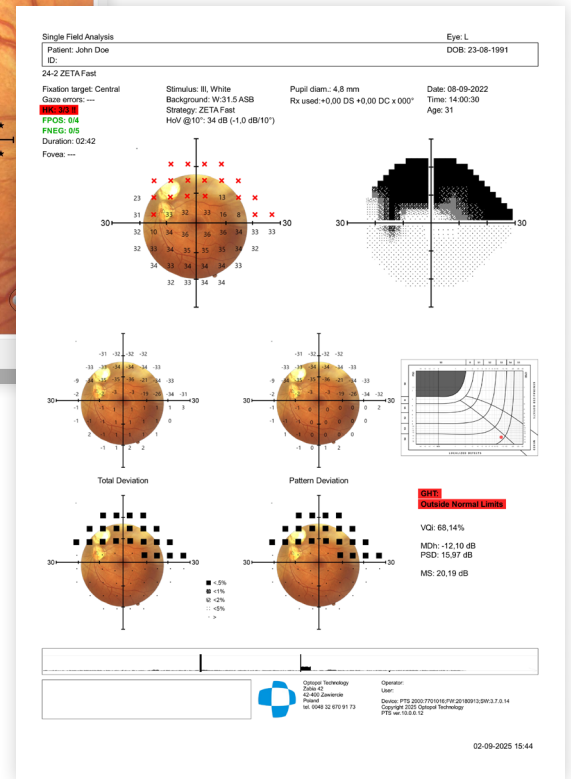
* depends on a patient condition
** range with fixation shift



FUNDUS-ORIENTED PERIMETRY

Import your Fundus Images

Unlock deeper diagnostic insights by importing fundus photography or OCT layer thickness maps directly into your Optopol perimeter. The software overlays these structural images onto the functional Visual Field assessment, utilizing advanced RGC (Retinal Ganglion Cell) displacement correction for precise correlation. To streamline your workflow, the software offers direct integration with Optopol REVO and FUNDO devices for instant image access. The resulting comprehensive VF overlay maps can be easily printed on a standard VF report.

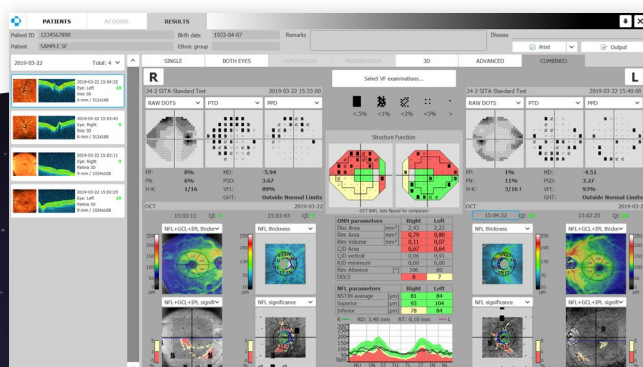
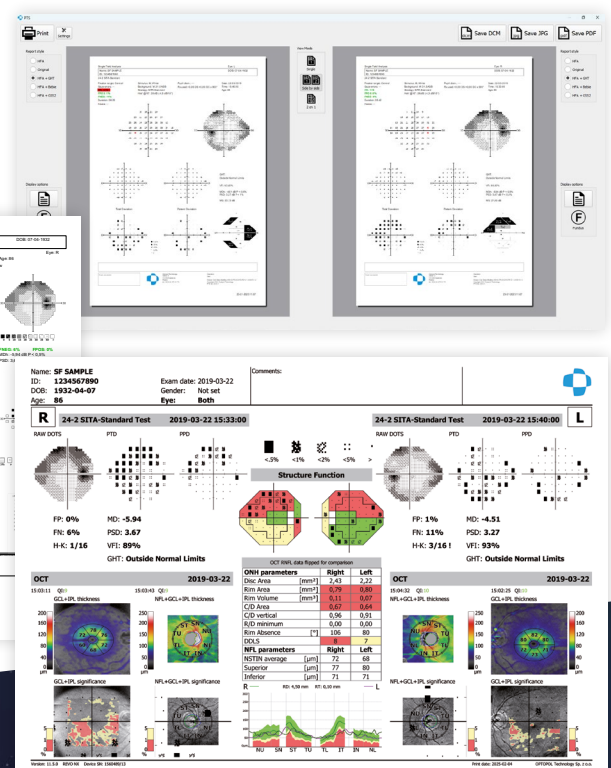
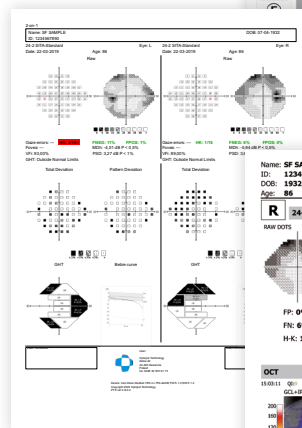


STRUCTURE AND FUNCTION*

Combined ophthalmic modalities give a broader look into pathologies and aid the diagnosis process

Both models of Optopol perimeters can provide VF results for REVO SD-OCT combined analysis of structural data with functional VF information. Pattern deviation probability symbols or numeric values can be presented as an overlay on the retinal NFL thickness or significance OCT map. This raises the diagnostic value of the system to the highest level.

*S&F analysis only available with Optopol SOCT software.



OPTOPOL AUTOMATED PERIMETER SERIES

THRESHOLD IN 3 MINUTES*

- ZETA™, ZETA™ Fast and ZETA™ Faster strategies - testing based on statistical data for high reliability and precise threshold estimation.
- Advanced Threshold strategy - quicker examination without loss in result resolution.
- Central 24-2 field tested in 3 minutes*.
- Acquire more detailed information than screening strategies in the same amount of time.

SUPREME RELIABILITY

- High resolution camera for precise eye monitoring.
- Blink control - no stimuli are omitted due to normal blinking, the test is put on hold until the eye is opened again.
- Eye tracking - analyzes pupil movement and assures supreme reliability of test results.
- Voice guide to assist the operator and patient during the examination in several available languages.
- EyeSee™** eye recording for better evaluation of test reliability.
- Head Tracking mechanism to ensure appropriate eye position and avoid test artifacts.

TIME SAVING FEATURES

- Rich library of predefined test fields and programs.
- Custom test settings can be stored and accessed with one click.
- Follow-up tests can be performed by selecting the base examination.
- Unfinished tests can be continued at a later date.

DICOM, GDT, EMR, NETWORK INTEGRATION

- Built-in networking features - data can be accessed from anywhere within your network.
- DICOM support comes standard.
- Store visual field reports on the DICOM image server.
- Includes DICOM Modality Worklist.
- GDT and custom EMR based on text file interface.

STRUCTURE & FUNCTION ANALYSIS

- Export perimeter data to Optopol SD-OCT software.
- Invaluable combination of information about the functional and structural quality of vision.
- S+F provides a comprehensive single page report for glaucoma management.

* depends on a patient condition

** V-Eye™ in the US



STANDARD
TEST REPORT
FORMATS

TECHNICAL SPECIFICATION



Device		PTS 925 Astral	PTS 2000 Horizon
Examination bowl		300 mm radius, spherical, closed type, ventilated	300 mm radius, aspherical, closed type, ventilated
Test field range	Superior	40° (55°)*	60° (70°)*
	Inferior	40° (55°)*	70°
	Left to right	100° (170°)*	180°
Testing techniques	Static perimetry	•	•
	Kinetic perimetry		•
Stimulus sizes (Goldmann)	III	•	•
	I to V		•
Stimulus colors	White	•	•
	Green		•
	Blue		•
	Red		•
Background illumination	White 3,18 cd/m ² (10 asb)		•
	White 10 cd/m ² (31,4 asb)	•	•
	Yellow 100 cd/m ² (314 asb)		•
Maximum stimulus intensity		10000 asb	10000 asb
Fixation control	Gaze tracking	•	•
	Blink monitoring	•	•
	Heijl/Krakau	•	•
	EyeSee™	•	•
Chinrest control	Electrical up-down	•	•
	Electrical left-right		•
Patient response time	Set manually 0,1 to 9,9 s	•	•
	Adaptive to patient speed	•	•
Test fields	Radial test field patterns		•
	Orthogonal test field patterns	•	•
	G0-2, 5-2, 10-2, 24-2, 24-2C, 30-2, 30-2C, Sup 44, Gandolfo	•	•
	G1, N1, N2, 07, 60-4, FF81/120/135/246, BSV, B1, Nasal Step, Sup 36, Sup 64, Central 40/64/80, Armaly C/F, BG, BT, G-Periphery, N-Fovea, M, D		•
Test strategies	Screening (Smart Screening, Quantify Defect, 3-zone, 2-zone, Single Intensity)	•	•
	Threshold (Threshold, Fast Threshold, Advanced Threshold, Dynamic)	•	•
	ZETA™, ZETA™ Fast, ZETA™ Faster	•	•
	TOP, TOP+	•	•
	Special (BSV, Flicker)	•	•
	Esterman Monocular Test	•	•
	Esterman Binocular Test		•
	Kinetic (Manual, Automated, Mixed)		•
Analysis	Single field analysis	•	•
	Result comparison	•	•
	DPA™ Defect Progression Analysis	•	•
	Statistical package	•	•
Connectivity	DICOM Storage SCU	•	•
	DICOM MWL SCU	•	•
	GDT, TXT, CMDL	•	•
	Networking	•	•
	REVO Structure & Function Interface	•	•
Integrated PC	CPU 4x2,4GHz, 4GB RAM, 512 GB HDD, Wi-Fi 5, BT 5.0		•
Device interface		USB 2.0	Wi-Fi5, USB 2.0, RJ45
Dimensions mm (HxWxD)		418 x 556 x 408, 9kg	604 x 483 x 427, 17,5kg
Operating Voltage		100-120V AC 50-60Hz or 220-240V AC 50-60Hz	100-120V AC 50-60Hz or 220-240V AC 50-60Hz
Power consumption		30W	150W

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* range with fixation shift