



# PTS AUTOMATED PERIMETERS

PTS 925W

PTS 920

PTS 2000



Fast and precise perimetry  
*at your fingertips*

# FAST AND PRECISE PERIMETRY AT YOUR FINGERTIPS



## Optopol PTS Automated Perimeter Series

Optopol PTS 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 operator and patient during the examination. List of available languages is constantly increasing.



### EYE TRACKING

Eye Tracking analyses pupil movements and assures supreme reliability of test results. Eye moves are recorded and presented on the graph. Test is suspended until the proper fixation is restored.



### BLINK CONTROL

No stimuli are omitted due to normal blinking. 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 PTS 920BY and PTS 2000



### 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 chinrest height/horizontal position to align a pupil.



### IMPORT HISTORICAL DATA\*\*

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



### EYESEE™ EYE RECORDING

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

\* Available with PTS 925 and PTS 2000.

Test duration depends on patient condition.

\*\* Check compatibility at your local distributor





## PTS 925W

**The Optopol PTS 925W brings the world's most popular visual field patterns 30-2 and 24-2 into a compact device**

Despite its compact size, the 925W offers cutting-edge design and software capabilities. With the 170° horizontal and 110° vertical testing range\*\*, the PTS 925W 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
- Ptois 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



## PTS 920/BY

A new addition to the successful PTS 900 perimeter series, the PTS 920/BY offers the same ease of use and affordability. With its ergonomic design and modern testing and analysis software, the 920 is a leap forward from the original PTS 900 series.

- 160° horizontal and 100° vertical testing range\*\*
- Goldmann standard bowl and stimulus
- Thresholding in 3-4 minutes\*
- Full featured software in standard
- Statistical package and Dicom interface
- Optional Blue on Yellow testing
- Standard style printouts
- Maintenance free operation

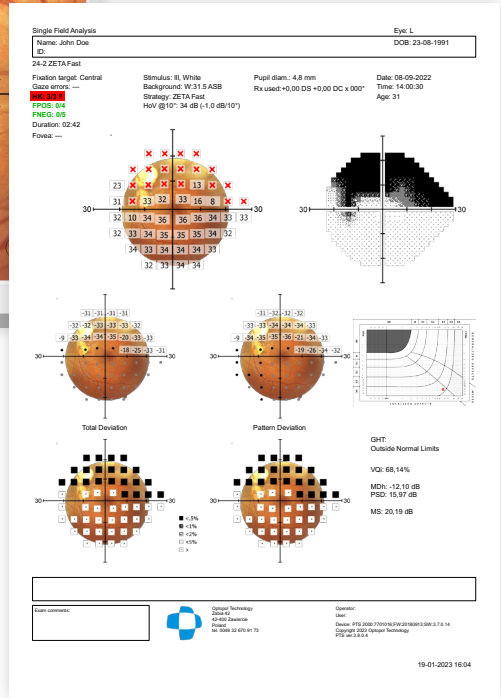
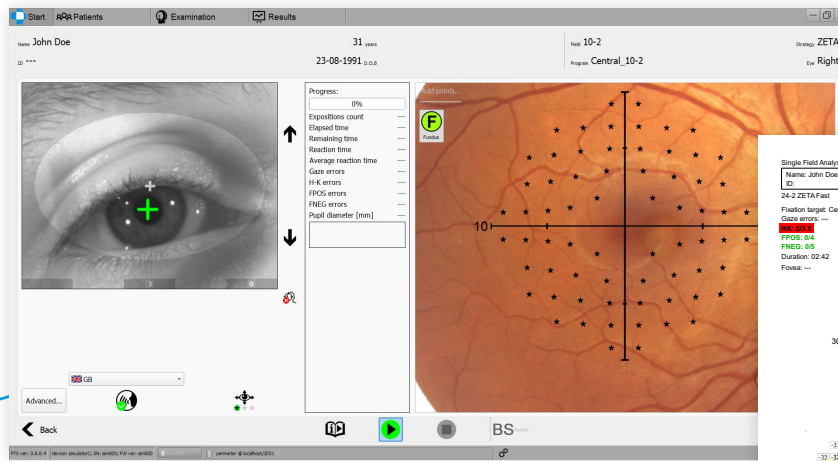


## PTS 2000

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 PTS 2000 brings to you one of the world's largest field testing ranges and options, together with all Goldmann stimuli sizes and colors used in perimetry. The PTS 2000 sets a new standard for full-featured projection perimeters.

- 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





## FUNDUS-ORIENTED PERIMETRY

### Import your Fundus Images

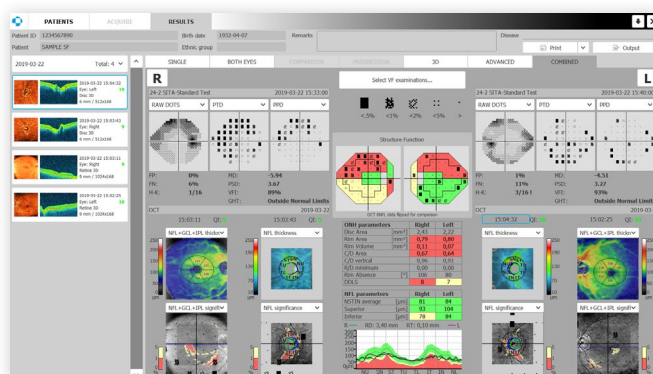
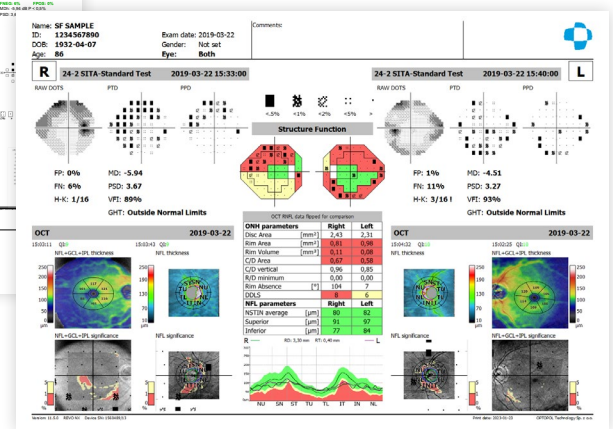
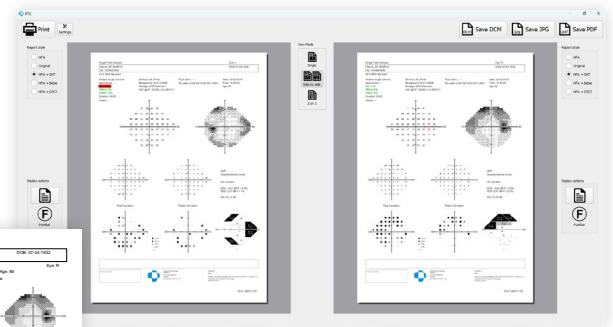
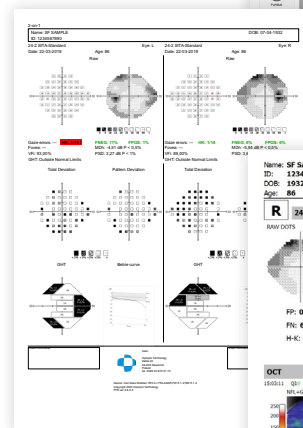
PTS can import your fundus photography images or the OCT layer thickness maps as a background to examine and review the Visual Field. Correlation of the structural information with the functional Visual Field assessment results is done using the RGC displacement correction to provide the highest diagnostic value. VF overlay maps can be printed in a standard VF report.

## STRUCTURE AND FUNCTION\*

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

Each PTS model can provide VF results for REVO SOCT 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.





# PTS – 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.
- 24-2/24A 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 tutorials 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 assure appropriate eye position and avoid test artifacts.

\* depends on a patient condition

## TIME SAVING FEATURES

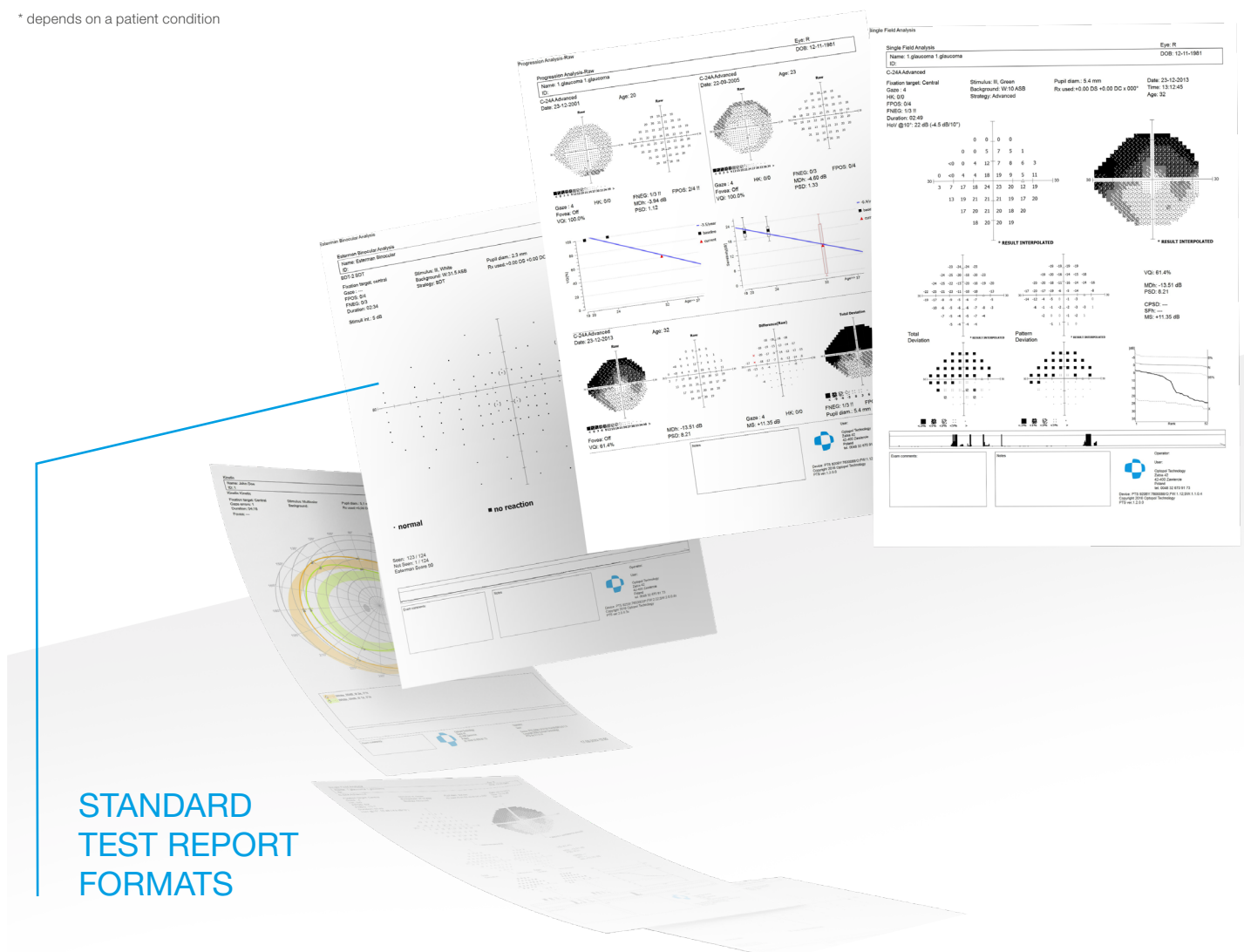
- Rich library of predefined test fields and programs.
- Custom test settings can be stored and accessed with one mouse click.
- Follow-up tests can be performed selecting the base examination.
- Unfinished tests can be continued at a later date.

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



STANDARD  
TEST REPORT  
FORMATS

## TECHNICAL SPECIFICATION



Device		PTS 920, *PTS 920BY	PTS 925W	PTS 2000
<b>Examination bowl</b>		300 mm radius, spherical, closed type, ventilated	300 mm radius, spherical, closed type, ventilated	300 mm radius, aspherical, closed type, ventilated
<b>Test field range</b>	Superior	50°	40° (55°)**	60° (70°)**
	Inferior	50°	40° (55°)**	70°
	Left to right	100° (160°)**	100° (170°)**	180°
<b>Testing techniques</b>	Static perimetry	•	•	•
	Kinetic perimetry			•
<b>Stimulus sizes (Goldmann)</b>	III	•	•	•
	I to V			•
<b>Stimulus colors</b>	White		•	•
	Green	•		•
	Blue	•*		•
	Red			•
<b>Background illumination</b>	White 3,18 cd/m <sup>2</sup> (10 asb)	•		•
	White 10 cd/m <sup>2</sup> (31,4 asb)		•	•
	Yellow 100 cd/m <sup>2</sup> (314 asb)*	•*		•
<b>Maximum stimulus intensity</b>		1000 asb	10000 asb	10000 asb
<b>Fixation control</b>	Gaze tracking	•	•	•
	Blink monitoring	•	•	•
	Heijl/Krakau	•	•	•
	EyeSee™	•	•	•
<b>Chinrest control</b>	Electrical up-down	•	•	•
	Electrical left-right			•
<b>Patient response time</b>	Set manually 0,1 to 9,9 s	•	•	•
	Adaptive to patient speed	•	•	•
<b>Test fields</b>	Radial test field patterns	•		•
	Orthogonal test field patterns		•	•
	G0-2, 5-2, 10-2, 24-2, 24-2C, 30-2, 30-2C, Sup 44/64, Gandolfo		•	•
	G1, N1, N2, 07, 60-4, FF81/120/135/246, BSV, B1, Nasal Step, Sup 36, Central 40/64/80, Armaly C/F			•
<b>Test strategies</b>	Screening (Quantify defect, 3-zone, 2-zone)	•	•	•
	Threshold (Threshold, Fast Threshold, Advanced Threshold, Dynamic)	•	•	•
	ZETA™, ZETA™ Fast, ZETA™ Faster		•	•
	Special (BSV, Flicker)	•	•	•
	Esterman Monocular Test	•	•	•
	Esterman Binocular Test			•
<b>Analysis</b>	Kinetic (Manual, Automated, Mixed)			•
	Single field analysis	•	•	•
	Result comparison	•	•	•
	DPA™ Defect Progression Analysis	•	•	•
<b>Connectivity</b>	Statistical package	•	•	•
	DICOM Storage SCU	•	•	•
	DICOM MWL SCU	•	•	•
	GDT, TXT, CMDL	•	•	•
	Networking	•	•	•
	REVO Structure & Function Interface	•	•	•
<b>Device interface</b>		USB 2.0	USB 2.0	USB 2.0
<b>Dimensions mm (HxWxD)</b>		645 x 561 x 385, 11 kg	410 x 568 x 410, 9kg	606 x 532 x 438, 17kg
<b>Operating Voltage</b>		100-120V AC 50-60Hz or 220-240V AC 50-60Hz	100-120V AC 50-60Hz or 220-240V AC 50-60Hz	100-120V AC 50-60Hz or 220-240V AC 50-60Hz
<b>Power consumption</b>		30W	30W	100W

\*\* range with fixation shift