Automated Perimeter PTS 910, 910 BY

PTS 910, 910 BY Technical Data

Number of test points	168 168+120	(PTS 910) (PTS 910 BY)
Tested field range	100° (160° for driving test)	
Perimetry technique	Static	
Stimulus size	Goldmann Size III	
Stimulus source	LED 565 nm LED 565 nm, LED 440 nm	(PTS 910) (PTS 910 BY)
Stimulus intensity	from 0,03 asb to 1000 asb (in 3 dB steps)	
Fixation control	Gaze tracking, Video eye monitor, Heijl/Krakau blind spot monitor	
Patient response time	0,1 to 7,5 s	
Background illumination	10 asb white color 10 asb white color, 314 asb yellow color	(PTS 910) (PTS 910 BY)
Test fields	– Central 30° – Full 50° – Peripheral 30°-50° – Macula 10° – Glaucoma 22°/50° – Extended 50° nasal, 80° temporal – Fast 30° – User defined, up to 50° – Binocular Driving Test, 160° bitemporal, 100° vertical	
Strategies	Threshold, Fast threshold, Screening, 3-zone, Neurological, BSV (Binocular Single Vision), Spatial sensitivity, Flicker (Critical Fusion Frequency measurement), BDT (Binocular Driving Test), Blue on Yellow (SWAP, PTS 910 BY)	
Result maps	Age Norm Deviation, Hill of Vision Deviation, Defect Probability Graph, Defect Progress Analysis, Results Comparison, Bebie Curve, Pupil Movement Graph, 3D Visualization of Patients HOV	
Interface	USB 2.0	
Dimensions	670 x 550 x 400 HxWxD [mm]	
Operating Voltage	100-250V 50/60Hz	
Additional features	Eye monitoring by built-in video camera. Advance auto-detection of eye position. Automatic pupil diameter measurement. Electrical chinrest adjustment. Patient's adaptive pacing. Printout with color maps, standard style printout or alternative (Humphrey-like) style printout. Network capabilities (remote database, networked review stations). Ergonomic design provides comfortable position during examination. A special ventilation system keeps fresh air throughout examination.	

OPTOPOL technology

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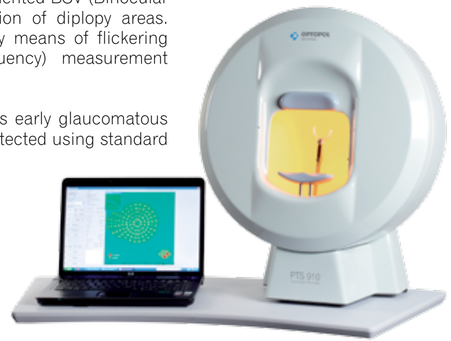
Automated Perimeter PTS 910, 910 BY

Automated Perimeter PTS 910, 910 BY is a modern diagnostic instrument for precise and fast testing field of vision using static stimuli. Broad range of test strategies enables a precise examination as well as to conduct a fast screening test.

Testing of drivers is provided thanks to Binocular Driving Test with 160 degrees bitemporal field. Implemented BSV (Binocular Single Vision) strategy allows examination of diplopy areas. The device also provides examination by means of flickering stimuli for CFF (Critical Fusion Frequency) measurement purposes.

Blue on Yellow (SWAP) strategy identifies early glaucomatous visual field defect before they could be detected using standard perimetry. It also helps to detect ocular hypertensives and neurological diseases.



PTS 910 BY

Test result is presented as easy-to-interpret graphic charts, referred to the age norm and patient's hill of vision. The printout contains additional information useful for interpretation, such as Mean Defect (MD), Pattern Defect (PD), Bebie Curve, Hill of Vision and Defects Progress Analysis. Examination reliability can be estimated on the basis of false negative and false positive tests. Built-in digital camera provides eye tracking, eye-detection, pupil position detection and automatic continous fixation control during examination. With electrically controlled chinrest you can precisely and easily set a proper patient position.

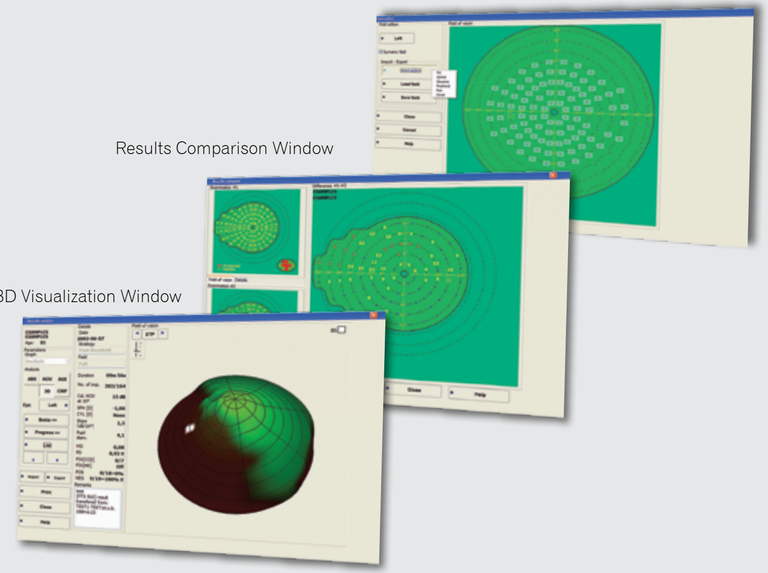
Software Features:

- Multilingual user interface – 13 languages available
- Test result analysis:
  - Age Norm Deviation,
  - Defect Progress Analysis,
  - Results Comparison,
  - Hill of Vision Deviation
- Age-related normative database
- Re-testing of selected points
- 3D results visualization
- Examination results comparison analysis
- Export/import of examination results
- Transferring examination between patients
- Networking
- User friendly ergonomic interface
- Multimedia storage database backup
- EMR (Electronic Medical Record) integration
- Saving printout as a graphical file
- Sound effects

Test Field Window

Results Comparison Window

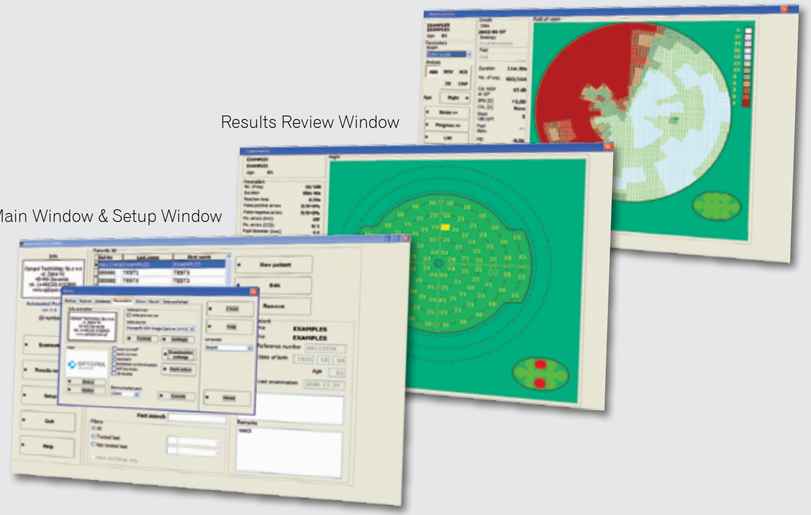
3D Visualization Window



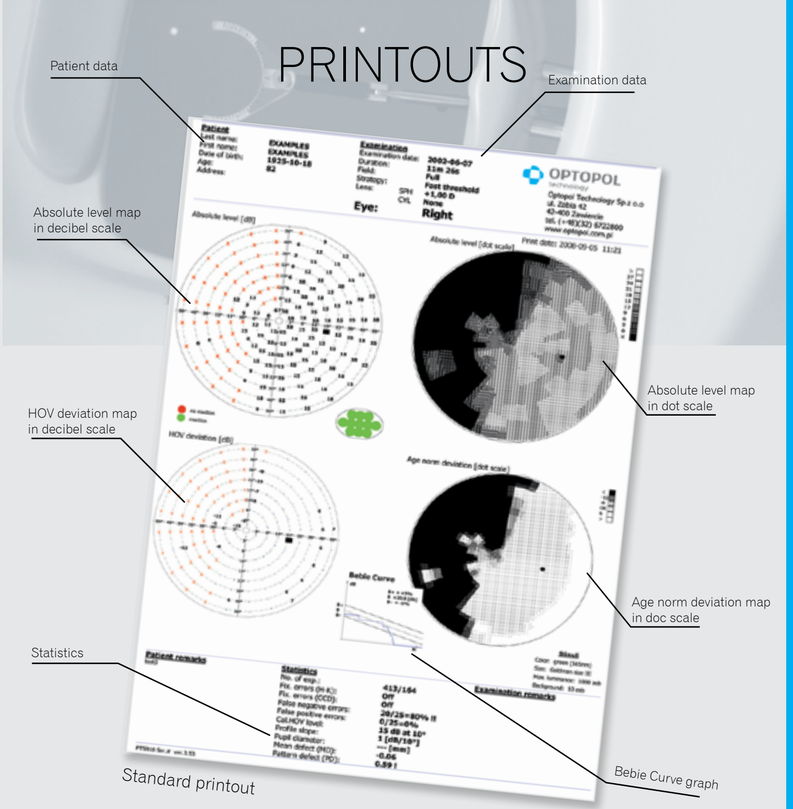
Examination Window

Results Review Window

Main Window & Setup Window

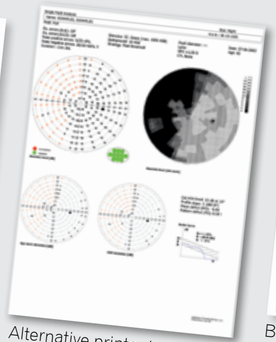


PRINTOUTS



Standard printout

Comparison printout



Alternative printout

BDT printout