PTS 900 910 910 COMPACT

OPTOPOL technology

Automated Perimeter
PTS SERIES

PTS 900

PTS 910

PTS 910 COMPACT

Automated Perimeters PTS series is a modern diagnostic instrument for precise and fast testing of field of vision by means of static stimuli. Depending on chosen test strategy, it enables to define the sensitivity threshold of retina in a given area, as well as to make a fast screening test. Implemented BSV strategy allows examination of diplopy areas. Testing of drivers is also possible thanks to included extendend field, that enables testing field up to 80 degrees temporally and Binocular Drivers Test. The device also enables examination by means of flickering stimuli for CFF (Critical Fusion Frequency) measurement purposes.

A new optional feature is the possibility to use "blue on yellow" (SWAP) examination method. This new examination method uses blue stimuli points presented on bright yellow background. Built-in auto-diagnostic functions will automatically detect any damages to device's hardware and report it to the user.

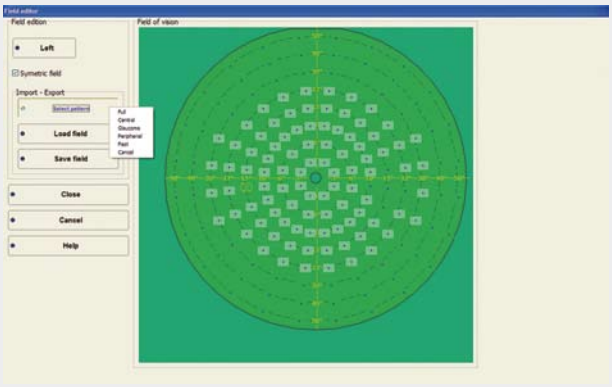
Test result is presented as four easy-to-interpret graphic charts, two of them are related to age norm and standard field of vision. Test result printout contains also additional information useful for interpretation, such as mean defect, pattern defect, Bebie curve, defects progress analysis, and hill of vision. Examination reliability can be estimated on the basis of false negative and false positive tests. Built-in digital camera allows eye-detection during examination and during setting patient's position; thanks to auto-detection of pupil position – it allows a continous automatic control of fixation. Automatically controlled chin-rest enables to set proper patient's position precisely and easily.

SOFTWARE FEATURES:

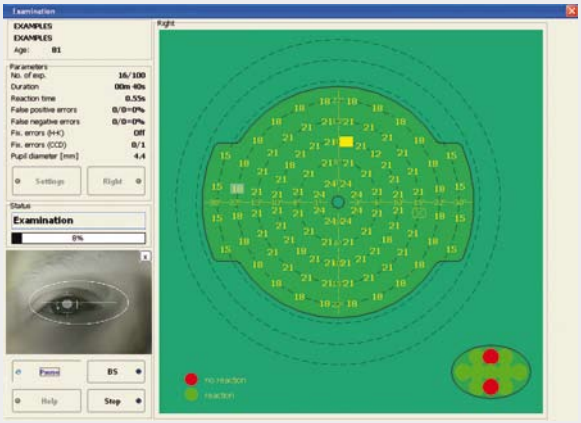
- Multilanguage user interface*
- Test result analysis:
  - hill of vision deviation,
  - age norm deviation,
  - defects progress analysis,
  - esults comparison.
- Age-related norms are used, based on 50 000 examinations made in Poland
- Possibility of re-testing chosen points
- 3D presentation window with visualisation of results
- Results comparison feature
- Possibility to export/import examinations results, enabling moving single test results between computers
- Possibility to connect several data bases into one
- Possibility to administer data base (moving results of examinations among patients)
- Possibility of working in computer net simultaneously by several users
- Database sharing with PCT 110 system

– Improved module of data base archiving, enabling better, faster and more effective administration of data base archival copies
– Database backup using direct CD-Burning module**
– Possibility of saving printouts and examination results as JPG files, and sending in electronic way
– Sound events ***
– Possibility to data exchange with external medical systems

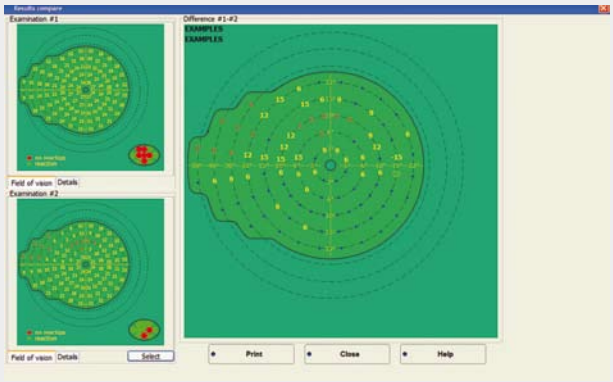
* in WIN98SE only standard fonts are supported
** computer needs CD/DVD recorder
*** computer needs sound card and speakers



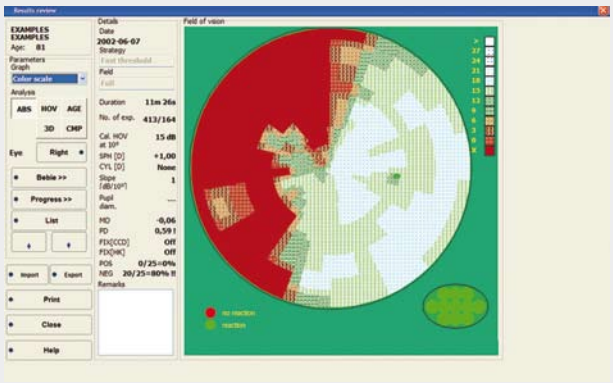
Test Field Editor



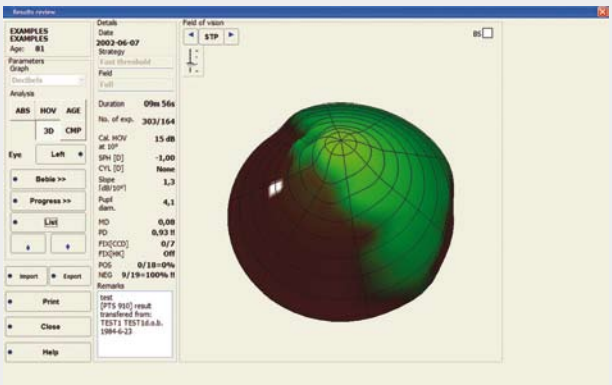
Examination Window



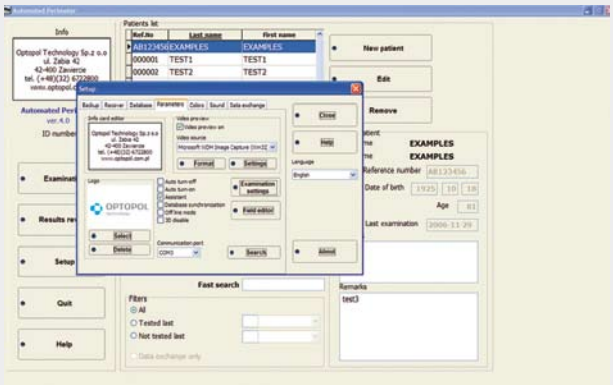
Results Compare Window



Results Review Window



Results Review Window - 3D Visualization



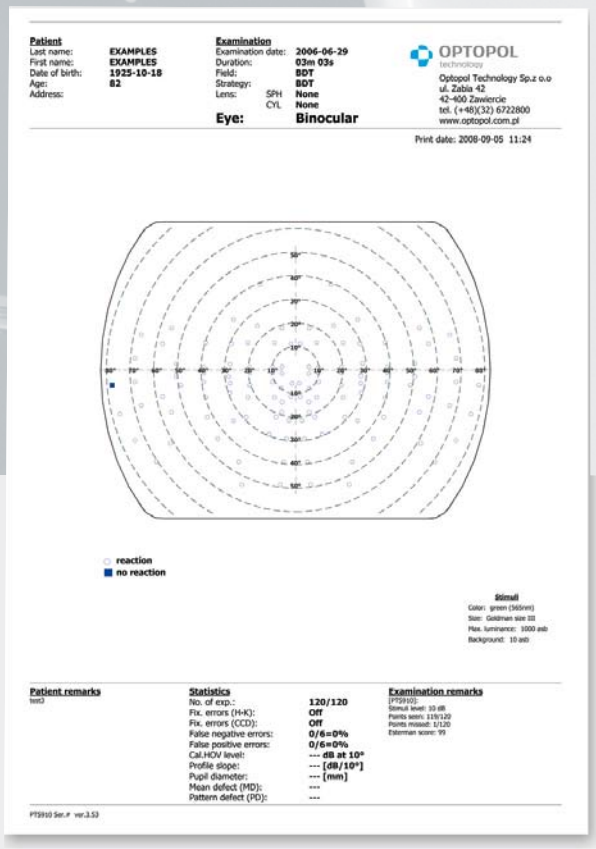
Main Window & Setup Window

PTS series Technical Data

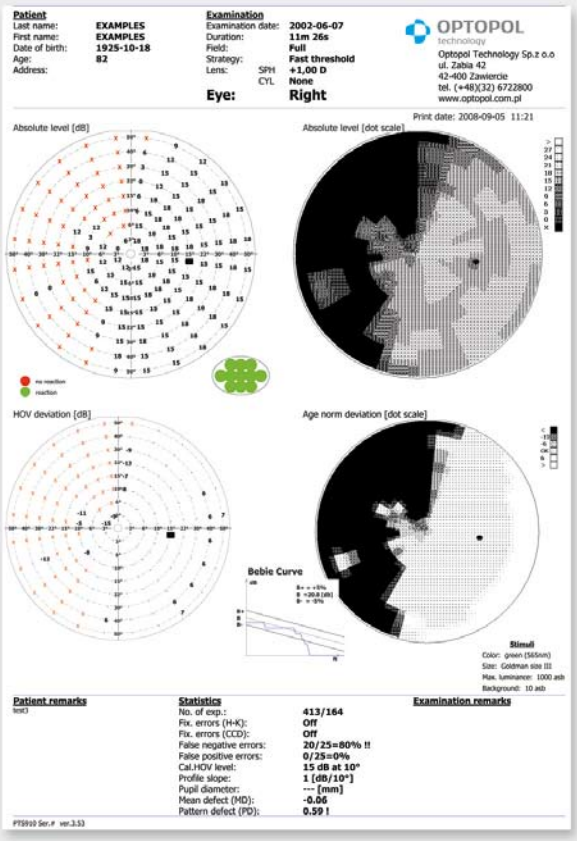
Number of test points:	168 + 120 for BY
Tested field range:	100 deg (130 for drivers test)
Stimulus size:	Goldmann Size III
Stimulus source:	LED diode 565 nm, 440 nm for Blue On Yellow
Stimulus intensity:	from 0,03 asb to 1000 asb (in 3 dB steps)
Standard test fields:	– central 30 deg – full 50 deg – peripheral 30 deg - 50 deg – macula 10 deg – glaucoma 22 deg/50 deg – driving test nasal 50 deg, temporal 80 deg – fast 30 deg – user defined 50 deg – BDT - Binocular Drivers' Test, 80 deg horizontal, 50 deg vertical
Power supply:	100-250V 50/60Hz

- Examination strategies: screening, threshold, 3 – zone, fast threshold, neurological, BSV binocular vision, Spatial sensitivity, Flicker (Critical Fusion Frequency measurement), Blue On Yellow (SWAP) strategy (optional), BDT (Binocular Drivers Test)
- Eye monitoring by means of built-in CCD-camera
- Auto-detection of eye position
- Automatic pupil diameter measurement
- Automatic adjustment of chin-rest height
- Fixation method: control of blind spot position (11 points) digital detection of pupil position
- Patient response time: adaptive to patient speed or set manually from 0,1 to 9,9s
- Background illumination: 10 asb, set automatically, white color (314 asb yellow color for Blue On Yellow)
- Bebie curve
- Possibility to print test results in color; alternative printout style (in Humphrey format)
- Printer – recommended ink jet or laser jet
- Self-diagnostic function checking instrument's efficiency
- Built-in PC system (PTS-910 Compact only)
- Ergonomic design ensures comfortable patient position during examination
- Special ventilation system is used to keep fresh air throughout examination inside stimulation bowl (PTS-910/PTS-910 Compact)

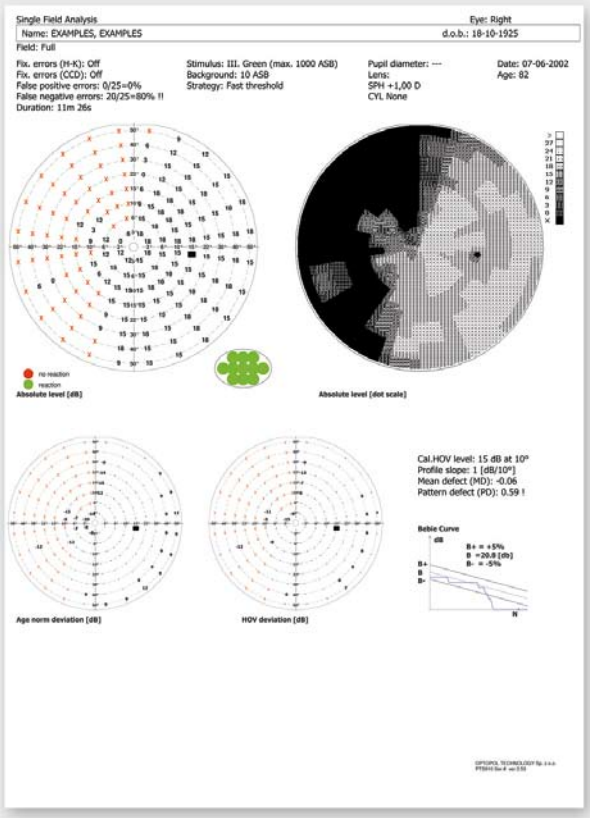
PRINTOUT



PTS910 printout BDT



PTS910 printout classic



PTS910 alternative

Automated Perimeter PTS series

OPTOPOL technology

OPTOPOL Technology S.A.
ul. Żabia 42, 42-400 Zawiercie, POLAND

Tel/Fax: +48 32 6709173
info@optopol.com.pl

www.optopol.com

Local Distributor:

ver. PTS 900/910 05-2009