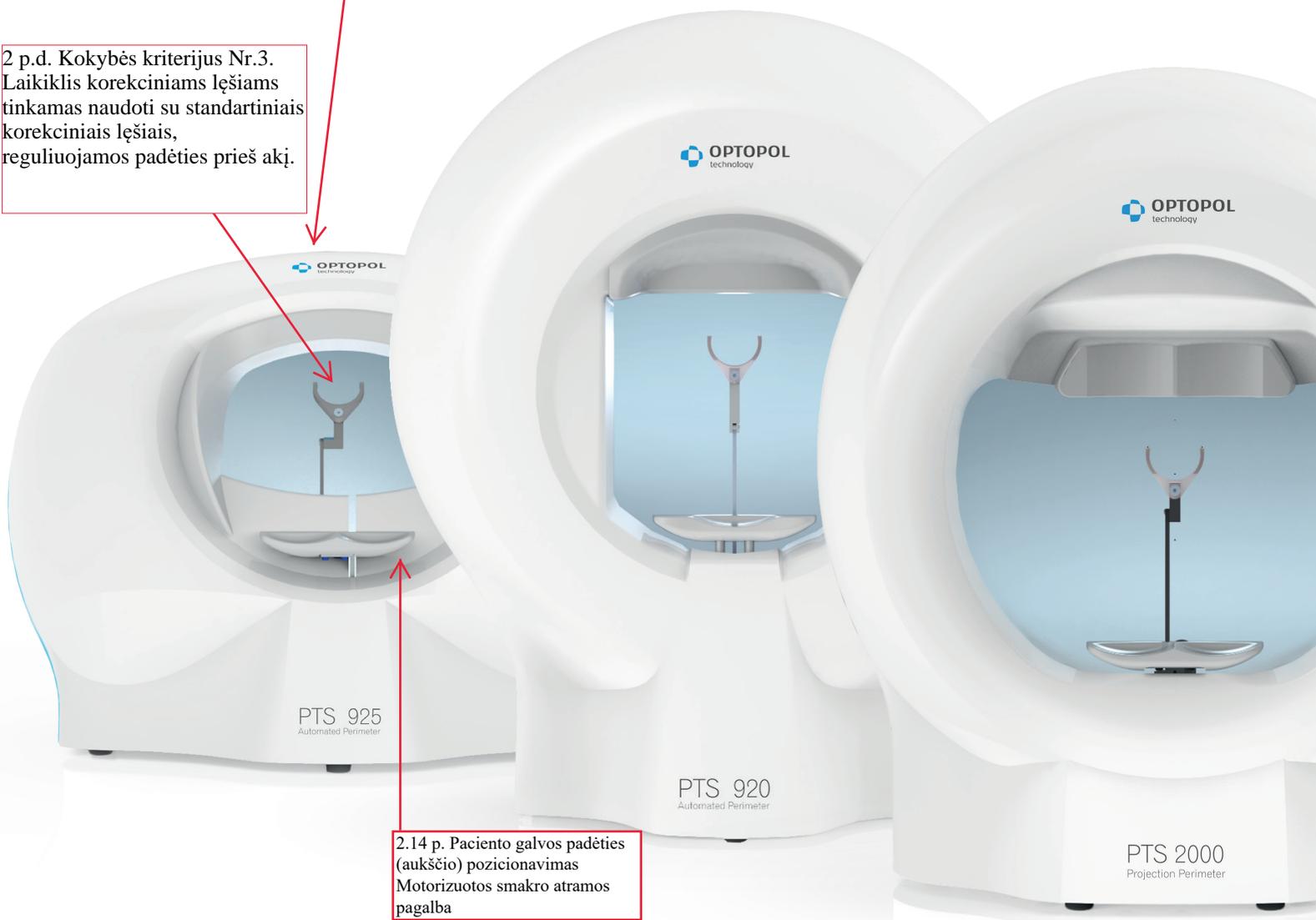


NEW AUTOMATED PERIMETERS

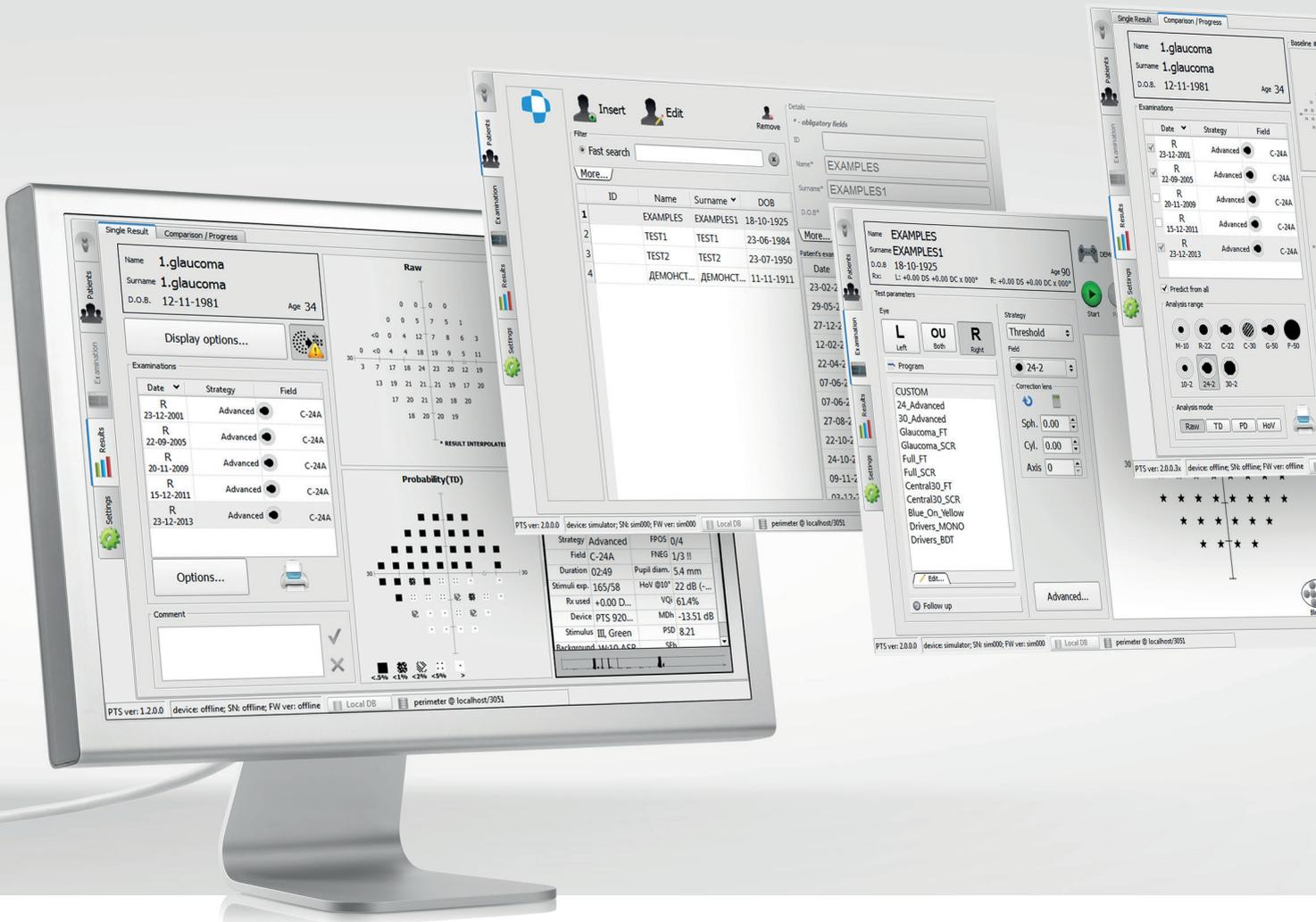
Fast and precise perimetry at your fingertips

2 p.d. Kokybės kriterijus Nr.3.
Laikiklis korekciniais lęšiams
tinkamas naudoti su standartiniais
korekciniais lęšiais,
reguliuojamos padėties prieš akį.



2.14 p. Paciento galvos padėties
(aukščio) pozicionavimas
Motorizuotos smakro atramos
pagalba

PTS 920 | **PTS 925W** | PTS 2000



FAST AND PRECISE PERIMETRY AT YOUR FINGERTIPS

2.1. p. Skirtas paciento regėjimo lauko įvertinimui statiniu metodu.

The PTS automated perimeter series are modern diagnostic instruments for precise and fast testing of visual fields. Beside standard perimetry testing techniques they implement all of the latest visual field testing approaches saving time and deliver cutting edge precision and reliability. Intuitive software with powerful networking and EMR integration, combined with maintenance free and reliable hardware creates the best tools for visual field testing.



EYE TRACKING

Analyses pupil movement and assures supreme reliability of test results.



BLINK CONTROL

No stimuli are omitted due to normal blinking, test is put on hold until the eye is opened again.



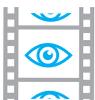
VOICE GUIDE

Voice messages assist operator and patient during the examination.



THRESHOLD IN 3 MINUTES WITH ZETA™ **

ZETA™ and ZETA™ Fast strategies - fast and reliable examination with precise threshold estimates.



EYEESEE™ EYE RECORDING

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



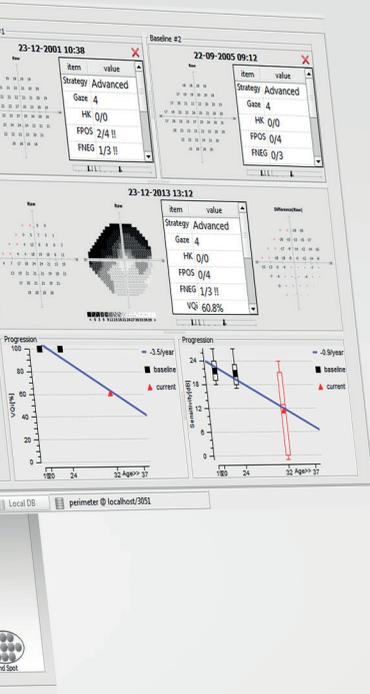
DPA™ ANALYSIS

DPA™ Defect Progression Analysis - inter-test analysis and judgement on defect progression.



HEAD TRACKING

Monitoring and adjusting patient's head position throughout the test.



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.
- ✓ Standard test reports and global indices.
- ✓ GHT and sectors analysis.

PTS 925W

Automated Perimeter PTS 925W brings the world's most popular orthogonal fields 30-2 and 24-2 into the compact sized device.

Despite its compact size, the 925W offers cutting-edge design and software capabilities. With the 170° horizontal and 110° vertical testing range (with fixation shifts), there is no scenario in which the PTS 925W could not play a role in glaucoma and other disease management. From precise macula thresholding to the binocular Esterman driving test – everything is within reach.

2.6.p. Tiriama akiplėčio ribos: horizontaliai 170 laipsnių

- 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 capabilities (Sup 44 test field)
- Thresholding on 24-2 and 30-2 in 3-4 minutes**
- Standard style printouts



PTS 920/BY

Automated Perimeter PTS 920/BY is designed to fulfill all requirements of contemporary perimetry.

Being a continuation of a successful PTS 900 perimeter series, it offers the same ease of use and affordability. With ergonomic design and modern testing and analysis software, the 920 makes a leap forward from the original PTS 900 series. Full sized testing bowl and user-oriented software guarantee the perfect results with no effort.

- 160° horizontal and 100° vertical testing range
- Goldmann standard bowl and stimulus
- Thresholding on 24A and 30A 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

Automated Perimeter PTS 2000 sets a new standard for full-featured projection perimeters.

This is where the ergonomic design meets the requirements of modern visual field evaluation. Performing everything from a quick screening test to manually controlled kinetic perimetry is simpler than ever before. PTS 2000 brings to you one of the world's largest field testing ranges and options, together with all Goldmann stimuli sizes and stimuli colors used in perimetry. With the modern and intuitive software, all that is available at your fingertips.

- Complete set of static perimetry strategies
- Automatic and manual kinetic perimetry
- 180° horizontal and 130° vertical testing range for peripheral screening
- Aspherical bowl for compact dimensions
- All Goldmann stimuli sizes and colors used in perimetry
- 30-2, 24-2 and 10-2 testing fields
- Ptois testing capabilities (Sup 64 test field)
- Standard style printouts

PTS – AUTOMATED PERIMETER SERIES

THRESHOLD IN 3 MINUTES**

- ZETA™ and ZETA™ Fast 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 less than 3 minutes (30-2/30A in less than 4 minutes).**
- Provides more detailed information than screening strategies in comparable duration.



SUPREME RELIABILITY

2 p.d. Kokybės kriterijus 5.p. Mirksėjimo sekimas (tyrimas stabdomas pacientui užmerkus akį)

- High resolution camera for precise monitoring of patients' compliance.
- **Blink control - no stimuli are omitted due to normal blinking, test is put on hold until the eye is opened again.**
- Eye tracking - analyses pupil movement and assures supreme reliability of test results.
- Voice messages assist operator and patient during the examination.
- EyeSee eye recording for even better evaluation of test reliability.
- Head Tracking mechanism to assure appropriate eye position and avoid test artifacts.

STANDARD TEST REPORTS AND GLOBAL INDICES

FLEXIBILITY FOR TIME

- 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 by simple selection of base examination.
- Partial test results of not completed test 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.**
- Out of the box DICOM support.
- Storing visual field reports on the DICOM image server.
- **DICOM Modality Worklist support.**
- GDT interface and custom EMR's based on text file interface.

2.15.p. DICOM suderinamumas:
1. Darbų sąrašo palaikymas;
2. Rezultatų siuntimas.

STRUCTURE & FUNCTION ANALYSIS

- Export of visual field data to Optopol SOCT software.
- Invaluable combination of information about the functional quality of vision with comprehensive data on retinal structures.
- S+F provides a comprehensive single page report for glaucoma management.

* optional
** depends on a patient condition

Device	PTS 920, *PTS 920BY	PTS 925W	PTS 2000
Examination bowl	2.2.p. Perimetro ekrano diametras (Ø) 30 cm closed type, ventilated	300 mm radius, spherical, closed type, ventilated	300 mm radius, aspherical, closed type, ventilated
Test field range	Superior 50° Inferior 50° Left to right 100° (160° with fixation shift)	40° (55° with fixation shift) 40° (55° with fixation shift) 100° (170° with fixation shift)	60° (70 with fixation shift) 70° 180°
Testing techniques	Static perimetry Kinetic perimetry	2.1.p. statiniu metodu.	• •
Stimulus sizes (Goldmann)	III I to V	2.5.p. Stimulo dydis III pagal Goldmann	• •
Stimulus colors	White Green Blue Red	2.4.p. Stimulo spalva balta	• • •* •
Background illumination	White 3,2 cd/m² (10 asb) White 10 cd/m² (31,5 asb) Yellow 100 cd/m² (315 asb)*	2.3.p. Tiriamojo lauko foninis apšvietimas 31.5 asb	• • •
Maximum stimulus intensity	2.7.p. Maksimalus stimulo intensyvumas	10000 asb	10000 asb
Fixation control	Gaze tracking Blink monitoring Heijl/Krakau EyeSee™	2.13.p. Paciento žvilgsnio fiksacijos sekimas: 1. Žvilgsnio sekimas; 2. Mirksėjimo sekimas (tyrimas stabdomas pacientui užmerkus akį)	• • • •
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 5-2, 10-2, 24-2, 30-2, Sup 44/64 G1, G0-2, N1, N2, 07, 60-4, FF81, FF120, FF246, BSV, B1, Nasal Step	2.8.p. Testų laukai: 1. "10-2"; 2. "24-2"; 3. "30-2";	• • • •
Test strategies	Screening (Quantify defect, 3-zone, 2-zone) Threshold (Threshold, Fast Threshold, Advanced Threshold, Dynamic) ZETA™, ZETA™ Fast Special (BSV, Flicker) Esterman Monocular Test Esterman Binocular Test Kinetic (Manual, Automated, Mixed)	2.9.p. Minimalus patikros testų pasirinkimas: 2-jų zonų; 3-jų zonų; defekto gylio. 2.10.p. Minimalus slenkstinių testų pasirinkimas: 2.10.1. Slenksčio matavimas; Greitas slenkščio matavimas; 2.11.p. Minimalus specialių testų pasirinkimas: 1. Vairuotojų tyrimas pgl. Esterman; 2. Binokulinis dvejinimosi tyrimas; 3. Virpėjimo (angl. flicker) tyrimas.	• • • • • •
Analysis	Single field analysis Result comparison DPA™ Defect Progression Analysis Statistical package	2.12.p. Pakartotinai atliekamų tyrimų analizė: 1. Rezultatų palyginimas; 2. Defekto progresavimo įvertinimas.	• • • •
Connectivity	DICOM Storage SCU DICOM MWL SCU GDT, TXT, CMDL Networking REVO Structure & Function Interface		• • • • •
Device interface	USB 2.0	USB 2.0	USB 2.0
Dimensions mm (HxWxD)	645 x 561 x 385, 11 kg	410 x 568 x 410, 9kg	606 x 532 x 438, 17kg
Operating Voltage	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
Power consumption	30W	30W	100W

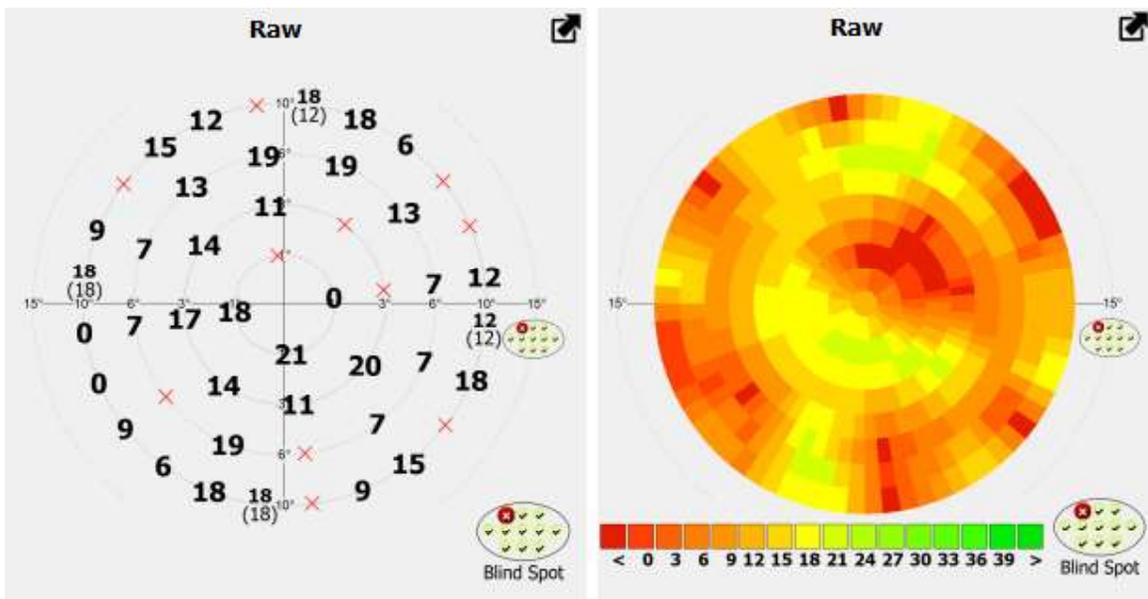


Figure 190. Basic display and the color-coded map of the RAW analysis

The color-coded map is interpolated. The space between the tested points is filled with symbols representing values estimated from the linear interpolation of the tested points. This way it is easier to read the map and to estimate the areas of visual defects.



The interpolated results in the tested field areas are based on mathematical analysis and are not a diagnosis. They represent a probable condition of the test field between the tested points. The actual condition of the visual field can be only determined through testing procedures.

2 p.d. Kokybės kriterijus: 1. p. Tyrimo rezultatų pateikimo forma HFA stiliumi.

14.3.5. Interpolation of results to maps 30-2, 24-2 and 10-2

The software allows to present the results of selected examinations in HFA-device style on maps 30-2, 24-2 and 10-2. The function is enabled by using "HFA Interpolation" button (Figure 188. "HFA Interpolation" button).

After enabling, the original examination result will be interpolated. As a result, a continuous retinal sensitivity map is generated, from which the presumptive sensitivity values at points that were not physically tested can be read. Locations belonging to commonly used test areas are used for displaying: 10-2, 24-2 and 30-2; these are popular for HFA devices. Whether the original result of examination is interpolated to map 10-2, 24-2 or 30-2 is dependent on the field range from the original result.

The results interpolation function is only available for tests in which numerical levels of retinal sensitivity may be determined. These include examinations performed with different threshold strategies (Threshold, Fast Threshold, Screening and Advanced). For interpolation to be possible with the selected examination strategy, it must be completed in at least 75%, and the examination must be performed on a sufficiently large field of vision.

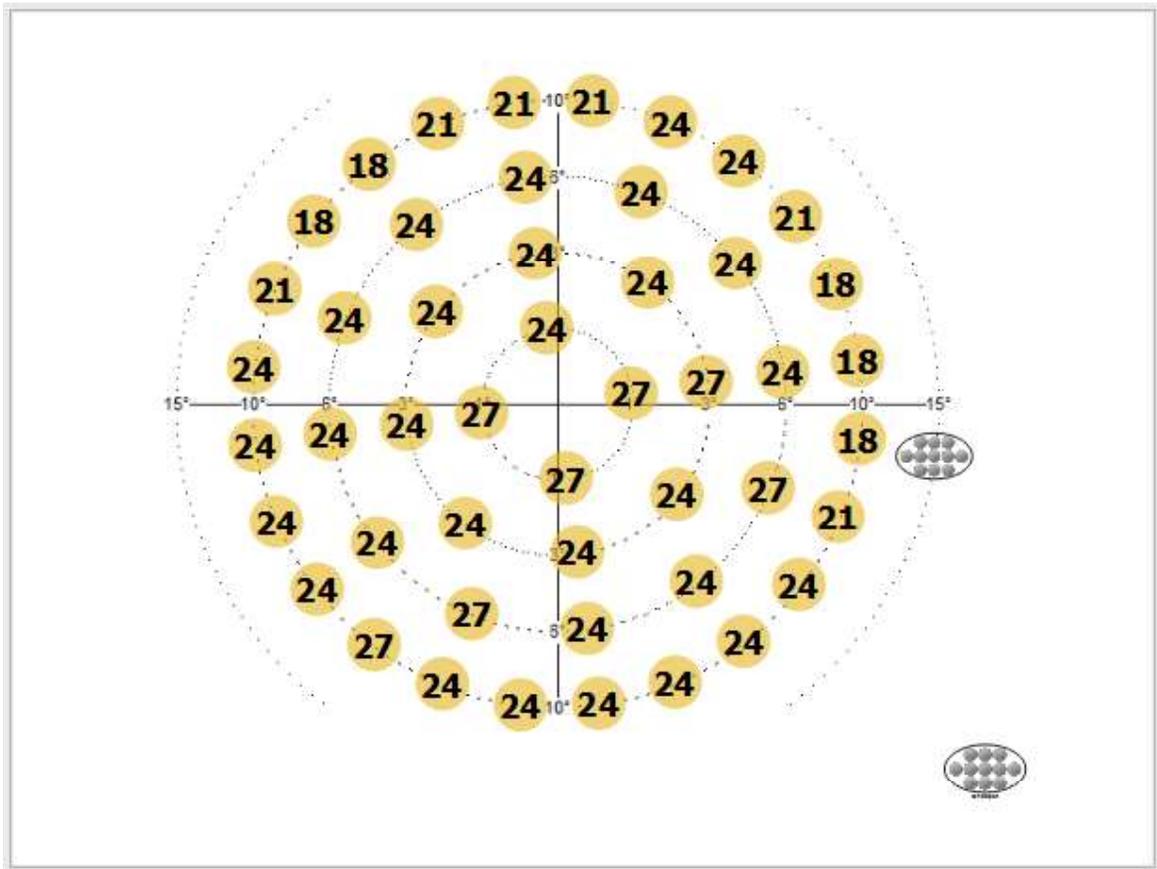


Figure 50. Source test preview for follow up



After the settings have been uploaded from the source test, the test parameters can be modified as in any other standard test. You can change the test field value, for example, and leave other parameters unchanged.

9.5. Adjustment of the chin rest

2.14 p. Paciento galvos padēties (aukšēcio) pozicionavimas
Motorizuotos smakro atramos pagalba

The position of the tested eye should be properly adjusted. It should be placed exactly opposite the fixation point shown in the video image from the eye camera.

To correctly position the eye, adjust the height of the chin rest using the indicators displayed in the camera window.

2.17 p. Nešiojamas kompiuteris, pilnai užtikrinantis priemonės funkcionavimą. Kompiuteryje yra instaliuotos programos, būtinos priemonės valdymui bei numatytiems tyrimams atlikti, pacientų duomenų bei tyrimų išsaugojimui.

PRADŽIA > LENOVO THINKPAD E16 GEN 1 (21JN000DMH)

2.16 p. Kompiuterio pagalba (kuris atitinka 2.17 punktą)



2.17 2 p. Kompiuteris yra suderintas su Microsoft Windows (Windows 11 Pro) operacine sistema ir įtrauktas į Windows sertifikuotų produktų sąrašą

LENOVO THINKPAD E16 GEN 1 (21JN000DMH)

2.17.6 p. Operacinė sistema Windows 11 PRO

Operacinė sistema Windows 11 Pro

Ekranas 16.0" WUXGA, IPS, matinis

Procesorius 2.17.1 p. Intel Core i5-1335U

Atmintis 16GB DDR4

Duomenų laikmena 256GB SSD

Vaizdo lustas Intel Iris Xe Graphics

Ryšiai Eternetas, WiFi, Bluetooth

Ypatybės Apšviečiama klaviatūra, pirštų antspaudų skaitytuvas, CO2 žyma

Spalva Juoda

2.17.8 p. Nešiojamas kompiuteris komplektuojamas su visais kabeliais, adapteriais ir kitomis sudedamosiomis dalimis bei medžiagomis, reikalingomis visų užsakomos sistemos vidinių ir periferinių įrenginių sujungimui, užtikrinant sistemos funkcionavimą (pvz., maitinimo, kietojo disko kabeliai ir t.t.).

DETALUS PREKĖS APRAŠYMAS

Tipas	Nešiojamas kompiuteris
Karta	1
Procesorius 12MB	13 (Raptor Lake) kartos Intel Core i5-1335U, 10 branduolių (2 didelio efektyvumo 1.3 / 4.6GHz + 8 energiją taupantys 0.9 / 3.4GHz), 12 loginių branduolių,
Operacinė sistema	Windows 11 Pro (64-bitų) 2.17.3 p. Procesoriaus architektūra 64 bitai
Ekranas matomumo kampas	16.0 colių, WUXGA (1920x1080), IPS, matinis, 300 nitų ryškumo, 16:10 kraštinių santykis, 45% NTSC atvaizduojamas spalvų spektras, 170° ekrano
Atmintis	2.17.4 p. → 16GB (8GB prilituota atmintis + 8GB DIMM), 3200MHz DDR4, dviejų kanalų palaikymas, 1 x DDR4 SO-DIMM atminties lizdas, 40GB (8GB integruoti + 32GB DIMM) maksimali atmintis
Duomenų laikmena	256GB SSD M.2 2242 PCIe 4.0x4 NVMe Opal2. Palaiko 2 x M.2 2242 duomenų laikmenas (1 x Gen 3x4, 1 x Gen 4x4)
Vaizdo lustas	Integruotas Intel® Iris® Xe Graphics
Ryšiai	Gigabitinis eterneto modulis Intel I219-V (Wake-On-Lan). Belaidis ryšys Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 luste
Mobilusis ryšys	Nėra

2.17.5 p. Kietasis diskas SSD tipo, talpa 256 GB

🏠 CPUS

📈 High End

High Mid
Range

Low Mid
Range

Low End

Single CPU Systems

Last updated on the 12th of October 2023

Column

CPU Name ▾	CPU Mark (higher is better) ▾	Rank (lower is better) ▾	CPU Value (higher is better) ▾	Price (USD) ▾
Intel Core i5-1335U	17,768	557	52.26	\$340.00*

* - Last price seen from our affiliates.

2.17.1 p. Kompiuterio procesoriaus našumas pagal viešai publikuojamus Passmarkperformance CPU mark procesorių įvertinimo rezultatus, pateikiamus http://www.cpubenchmark.net/cpu_list.php yra 17768. Procesoriaus modelis : intel® coretm i5-1335u. Procesoriaus sparta nėra dirbtinai padidinta.

2.18 p. Nespalvotas lazerinis spausdintuvas, tyrimo rezultatų spausdinimui.



2.18 p. Nespalvotas lazerinis spausdintuvas, tyrimo rezultatų spausdinimui.

Product specifications

HP Data Sheet	HP LaserJet Pro M404 Series printer
Functions	Print
Print speed	Up to 40 ppm (default) ; Up to 42 ppm (HP High Speed)
First page out (ready) black	As fast as 6.1 sec
Resolution (black)	Fine Lines (1200 x 1200 dpi) ← 2.18 p. Skiriamoji geba (raiška) 1200x1200 dpi
Resolution technology	HP FastRes1200, HP ProRes1200, Economode
Monthly duty cycle	Up to 80,000 pages ^[10]
Recommended monthly page volume	750 to 4000 ^[11]
Print Technology	Laser
Display	2-line backlit LCD graphic display
Processor speed	1200 MHz
Number of print cartridges	1 (black) 2.18 p. Nespalvotas

PRODUKTAS IŠSAMIAU



2.18 p. Pateikiama to paties spausdintuvo gamintojo juodos spalvos dažomųjų miltelių kasetė, kurios resursas 10 000 standartinių A4 formato lapų.

Kodas #CF259X

Resursas (Kopijos)	10000
Kopijos Savikaina	0.022 €
Spalva	Juoda

Tinka šiems Hewlett Packard (HP) spausdintuvams

Laserjet Pro M404dn

Laserjet Pro M404dw

Laserjet Pro M428dw

Laserjet Pro M428fdn

Laserjet Pro M428fdw



Electrical table

2.19 p. Elektrinis staliukas



2.19 p. Reguliuojamo aukščio

Technical information

Height

Min 630 mm
Max 810 mm

Table top size

560 mm x 480 mm

Elevating speed on full load

15 mm/s

Lifting capacity

55 kg

Weight

21 kg

Height adjustment mechanism

Electrical

Height adjustment control

UP/Down switches

Castors with lock

4 unit

Power supply

AC 200 V - 240 V ~50 Hz

2.19 p. Su 4 ratukais ir stabdžiais

H-K – Heijl–Kraukau blind spot monitoring

SF – short-time fluctuation in the test results

FPOZ – monitoring false positive results (reaction in absence of stimuli) during the test

FNEG – monitoring false negative results (no reaction to stimuli) during the test

Check / uncheck the box next to the test name to enable / disable the selected type of reliability tests to be run during the visual field test.

9.2.5. Setting lens correction for the test

It is important for the patient to clearly see all stimuli during the visual field test. Absence of reaction to stimuli should be attributed solely to eye diseases other than problems with eye refraction. Therefore correction lenses should be used for patients with refractive problems on the test results.

2 p.d. Kokybės kriterijus 3 p. Laikiklis korekciniams lęšiams tinkamas naudoti su standartiniais korekciniais lęšiais, reguliuojamos padėties prieš akį.

Test lens of 38 mm in diameter are used for lens correction, placed in a holder in front of the patient. To get reliable test results, make sure that the correction lens option is enabled. The test will be divided into two phases:

- internal diameter of the visual field –within a 30° ring, tested with correction lens
- external diameter of the visual field – outside a 30° ring, tested without correction lens

This division is introduced to eliminate artifacts generated when some of the stimuli is covered by the lens holder and the correction lens frame.

To activate the correction lens option, enter a non-zero value in the correction lens settings:

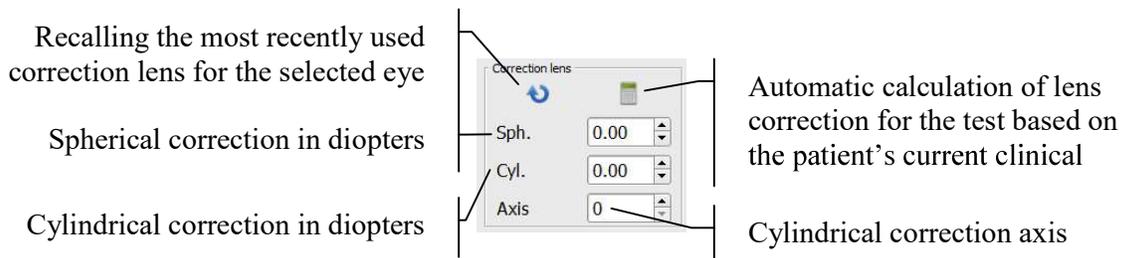


Figure 40. Settings of correction lens for the test

Correction values can be entered manually or with one of supporting tools. The available lens correction range is between -18D and 18D in 0.25D steps. Cylinder axis can vary within the range of 0° and 180°.

Recalling the recently used correction lens for the tested eye – this function browses all previous tests belonging to current patient. If the selected eye has been already tested, the system will recall the correction lens used in the previous test.

Lens calculator – it calculates the proposed correction lens based on the patient's current clinical refraction and age. The following calculation formulas are used:

- Cylindrical refractive errors $\leq \pm 0.25D$ are ignored.

Background	White (green stimuli) – 10 asb (3.18 cd/m ²) – automatic stabilization (PTS 925 and PTS925 BY only); chromacity (X,Y)=(0.374..0.473;0.366..0.432) Yellow (blue stimuli) – 314 asb (100 cd/m ²) – automatic stabilization (PTS 925 BY only); dominant wavelength (585..595) nm White (white stimuli) – 31.4 asb (10 cd/m ²) – automatic stabilization (PTS 925 W only); chromacity (X,Y)=(0.374..0.473;0.366..0.432)					
Stimuli exposure time	Adjustable within the range of 0.1s to 9.9s or adaptable					
Reaction time	Adjustable within the range of 0.1s to 9.9s or adaptable					
Intervals between exposures	Adjustable within the range of 0.1s to 9.9s or adaptable					
Fixations	Central, single (0°) Central, 4 points Top (15°) Left (35°) Right (35°) Bottom (15°) ¹					
Redefined examination fields	Designation	Nasal range [°]	Temple range [°]	Top range [°]	Bottom range [°]	Number of points
	F50-2 (Full)	50	50	40	40	168
	G50-2 (Glaucoma)	50	27	27	27	104
	24-2	27	21	21	21	54
	30-2	27	27	27	27	76
	5-2	3	3	3	3	16
	10-2	9	9	9	9	68
	P50-2 (Peripheral)	33-50	27-40	27-40	33-50	76
Esterman M	50	75	34	55	100	

2 p.d. Kokybės kriterijus Nr. 4. Standartinių 12 tyrimų

Redefined examination fields

¹ PTS 925Wi only

2 p.d. Kokybės kriterijus Nr. 4. Standartinių 12 tyrimų	Esterman B	75 (L)	75(R)	34	55	120
	Gandolfo	50	50	34	42	100
	G0-2	21	27	21	21	28
	Sup 44 ²	40	40	55	-21	44
Test strategies	Threshold Dynamic Fast Threshold ZETA™ ZETA™Fast Advanced TOP TOP+ Screening 3-Zone 2-Zone BDT Flicker BSV					
Size of correcting lens	38 mm					
Dimensions (HxWxD)	410mm x 568mm x 410mm					
Weight	9 kg					
Power supply	12V DC, 36 VA					
Fuses	T 1.6 A, L 250V, 5x20mm					

Table 3. Technical data of the PTS 2000 series perimeter

Simulator Bowl Type	Aspherical, according to Goldmann's standard, radius 30 cm
Field range with fixation offset	Left-right: 180° Up 70° Down 70°

²PTS925 Wi only

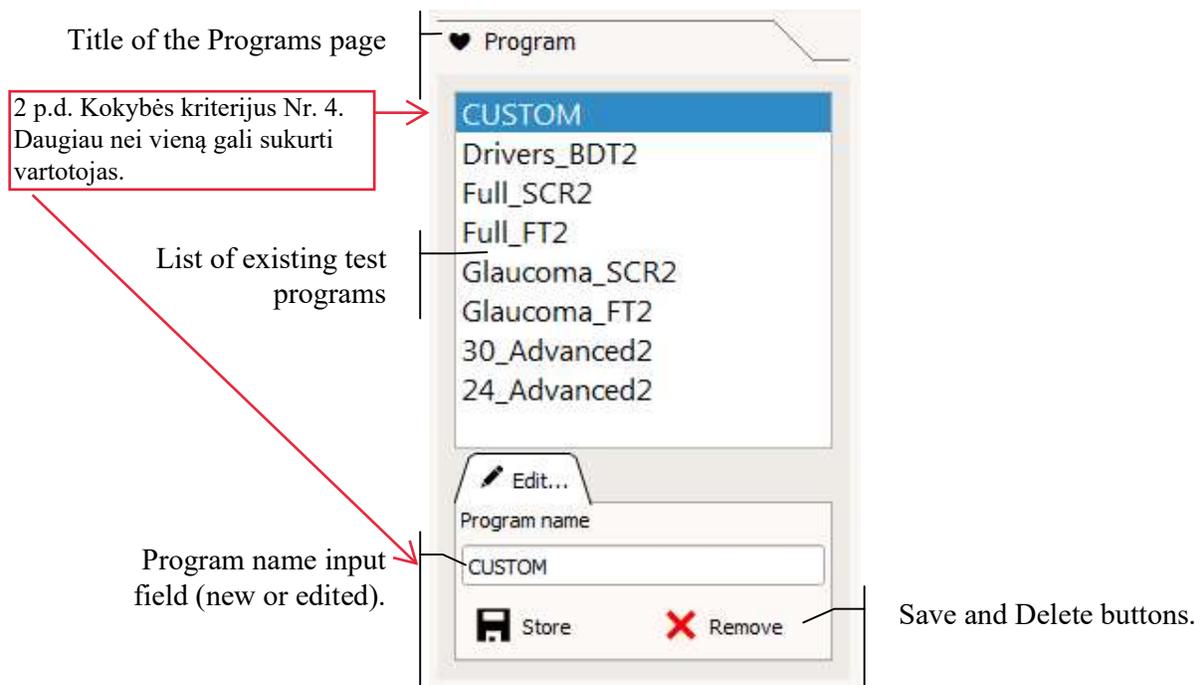


Figure 53. Test programs

Test Programs includes pre-set values of the following parameters:

- test strategy
- test field
- reliability tests
- central fixation target
- test field modification options
- bracketing of threshold strategies
- determination or pre-set value of the initial stimuli level
- stimulus color
- stimulus time parameters
- BDT sensitivity



After the test program has been loaded and before the test begins, the settings can be modified and adapted on a case-by-case basis – the settings of the stored test program will not be modified.

10.3.1. Managing the test programs

Types of test programs:

2.17.5 p. duomenų skaitymo/rašymo greitis 2100/1200 MB/s

ADATA XPG SX6000 Pro SSD 256GB PCIe Gen3x4 M.2
~~2280~~ R/W 2100/1200 MB/s

Gamintojo kodas: ASX6000PNP-256GT-C



Garantinis aptarnavimas: **60 mėn.** ?

Garantija pagal įstatymą: **2 metai** ?

Sandėlyje: **5** ?

Pristatymas: **3-4 d.d.**

