Automated
Perimeter

AP-300

AP-300 is a modern and innovative Automated Perimeter that exceeds global standards in the visual sensitivity testing, diagnosis and management of eye disease. AP-300 platform of advanced diagnostics uses Kinetic and Static Perimetry, including white/white perimetry, blue/yellow (SWAP - Short wavelength automated perimetry) and Flicker (critical flicker fusion perimetry) for early glaucoma detection plus real Goldmann Kinetic Perimetry.

AP-300 offers a wide range of strategies, fields and test parameters. Built-in camera complemented by automated eye tacking provides reliable automated fixation control. Standard built-in data capture and analysis include regression analysis of the visual field on the basis of historical examinations and standardized fields for presentation and printing of examination results. Easy to navigate, intuitive software allows easy operation and is designed to be operated using the touch screen. AP-300 design includes built-in high quality PC computer.

AP-250/250BY

AP-250 and AP-250BY are fully functional static back LED projection automated perimeters with a full field measurement. AP-250 and AP-250BY use green color LED projection of stimulus in Goldman size III. AP-250BY additionally offers test Blue-on-yellow with a blue stimulus Goldman V size and yellow backlight in accordance with the requirements of the SWAP perimetry. The intuitive software platform providers operators with a wide range of strategies, fields and test parameters. Control of fixation is performed automatically using the built-in camera or by controlling the position of the blind spot. Built-in data capture and analysis include regression analysis and standardized fields for presentation and printing of examination results. Perimeter AP-250 and AP-250BY can be easily set up with any PC computer running the Windows operating system.

AP-50

AP-50 is a desktop model, lightweight and fully featured modern static automated perimeter ideal for glaucoma diagnosis and specific requirements of occupational medicine and busy mobile clinicians. AP-50 uses LED back projection of stimulus in white color, and offers a wide range of strategies, test fields and reach set of test parameters to assure quick and precise measurement. Control of fixation is performed automatically using the built-in camera or by controlling the position of the blind spot. Built-in data analysis include regression analysis and standardized ways of presenting and printing examination results. Perimeter AP-50 can work with any PC computer running the Windows operating system.
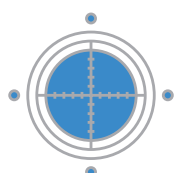
FREY Perimeter

The FREY Perimeter product range covers entire spectrum of visual field test technologies. From complete testing and data analyzing system AP-300 to small size and lightweight glaucoma screening and progress analysis AP-50 device. FREY perimeter software is feature reach and designed to be intuitive and easy to use.

Improved patient comfort

Patient comfort can influence the reliability of the exams. The design of the stimulator unit augments ventilation, chinrest assures stable and comfortable patient head support during entire examination.

Rapid testing times

Several techniques are available to reduce examination time, including Screening and Fast Threshold strategies, and enhanced fixation methods. For patients with large field losses, the use of pattern calibration and neurological test methods is available

Complete analysis modes

- World population statistics
- Enhanced 3D function for all shaded maps
- Age-normal, HoV, Level, ABS and normalized display
- Differential map
- Standard automated perimetry analysis

Accurate results

The high density concentric points stimulator bowl and the enhanced stimulus control combined with the automatic eye tracking fixation method, provide accurate examination of field loss.

Multiple test capabilities

The FREY Perimeters have a wide range of tests available to suit every need - Glaucoma, Full Field, Peripheral, Macula, Wide Field, Flicker, Binocular Single Vision, Driving Test and others.
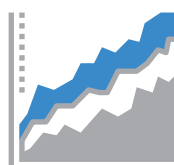
User friendly software

The FREY Perimeter software was designed to be intuitive and simple to use, even for operators with limited computer skills. The interactive menus provide comprehensive information and efficient operation, reducing the time spent preparing, reviewing and printing patient exams. The software is designed to be easily operated with a touch screen.

Networking

The FREY perimeter software is designed to seamlessly integrate with computer networks. Multiple perimeters may share one examination database. For result printing and centralized data storage network printers and network data sewers can be used. Automated backup function assures safety of patient data.

Technical Specifications	AP-50	AP-250	AP-250BY	AP-300
Test Specifications				
Maximum temporal range (degrees)	80			
Stimulus duration	0.1 – 9.9s			
Visual field testing distance	30 cm			
Background illumination	31.5 ASB	10 ASB	10 ASB	31,5 ASB
Test modes				
Supra threshold age corrected (Screening)	•	•	•	•
Single intensity	•	•	•	•
Full threshold	•	•	•	•
Fast threshold	•	•	•	•
Smart threshold		•	•	•
2-Zone, 3-Zone, Quantify Defect, Neurological		•	•	•
Specialty test library				
Bi-Driving, Industrial Medicine, monocular, binocular	•	•	•	•
Peripheral		•	•	•
Kinetic testing				•
Blue-on-Yellow (SWAP)			•	•
Custom testing		•	•	•
Test field library				
24-2, 30-2, 10-2, Macula				•
Nasal step (Glaucoma)	•	•	•	•
Central 10, Central 20, Central 30, Macula	•	•	•	•
Peripheral		•	•	•
Computer				
Build-in PC				•
Touch screen support	•	•	•	•
Fixation control				
Heijl Krakau blind spot monitor	•	•	•	•
Eye tracking (video camera)	•	•	•	•
Eye preview (video camera)	•	•	•	•
Stimulus				
White on white	•			•
Green on white		•	•	•
Red on white				•
Blue on yellow			•	•
General Testing Features				
Stimulus size (Goldman size)	III	III	III and V	I-V
Fovea threshold testing	•	•	•	•
Automatic pupil measurement	•	•	•	•
Additional software features				
Network connectivity	•	•	•	•
DICOM export	•	•	•	•
Targeted perimetry (merging tests with fundus images)				•
Fast threshold strategies	•	•	•	•
Time adaptive algorithms	•	•	•	•
Regression analysis	•	•	•	•
Printer	External or network printer			
Dimensions				
Height	382 mm	637 mm		
Width	548 mm	566 mm		
Depth	450 mm	420 mm		
Weight	9 Kg	18 Kg		23 Kg