AP-50 Desktop Auto Perimeter

Frey

AP-50

The AP-50 is a lightweight desktop auto perimeter, ideally suited for glaucoma diagnosis and busy mobile clinicians.

The AP-50 uses LED back projection of stimuli in white colour, and offers a wide range of strategies, test fields and 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 includes regression analysis and standardised presentation and printing of examination results.

The AP-50 Auto Perimeter is compatible with any PC computer running Windows.

Grafton Optical

Frey Perimeter

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 AP-50 device. Frey perimeter software is feature rich 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

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

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

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 servers can be used. Automated backup function assures safety of patient data. Service access and Wi-Fi connectivity any time anywhere for Frey technical support.

Frey

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 & 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