Frey

VITOP
Revolutionising Vision Care

Automated Perimeter
AP-600

freymedical.eu

AP-600 Automated Perimeter

Reduce testing time, increase clinical insights with confidence.

Frey AP-600 Automated Perimeter is a compact fully featured visual field analyzer that is simple to set up and use. Brilliant design combined with intuitive proprietary software offers expanded testing options to optimize your patient management with new TIA™ Standard, Fast and Superfast tests*.

Introducing TIA™ Superfast testing time

Modern and innovative platform provides clinicians with a full suite of bespoke visual field testing strategies and protocols which improves practice workflow and enhances patient comfort while reducing clinic waiting times.

Patient audio guide

Intuitive and easy to follow automated verbal instructions and commands are available at the preparation stage and during testing. Clinicians can option automated verbal instructions or chose to guide the patient personally.

Simple to operate. Easy to setup

World class design, clinician and patient interface. Unparalleled ergonomic clinician interface delivers a faster and easier visual field testing experience than ever before!

Near Vision Test

Refractive blur produces depression of the hill of vision. With embedded Near Vision Test clinicians can automatically verify patient's refractive correction.

17" HD Capacitive Touch Screen

Versatility and control at the hands of the clinician in selecting patient's name, editing patient data, commence testing and reviewing examination results with highly responsive 17" touch screen.

Position sensor

Forehead sensors continuously confirms optimal patient positioning. Clinicians are immediately notified of unexpected patient movement allowing the clinician to rapidly respond and reposition patient.

Optimized clinician workflow

Frey has successfully created an unparalleled level of integration between the AP-600 hardware and software, resulting in streamlined, highly optimized user interface to improve clinician workflow.

Compact design

Slim silhouette saves space. Engineered to Perfection. Compact design is the flagship feature of the AP-600 Automated Perimeter.

* Thresholding Interactive Algorithm (TIA™) is a trademark of Frey SJ. Data on file.

AP-600
Key features

Enhancing practice efficiency

AP-600 Automated Perimeter ergonomic design promotes maximum patient comfort and is simple to operate. Intuitive proprietary scalable software is an ideal and optimized clinical solution for small and medium practices to larger multi-site clinics and teaching hospitals.

Clinician ease of use and comfort

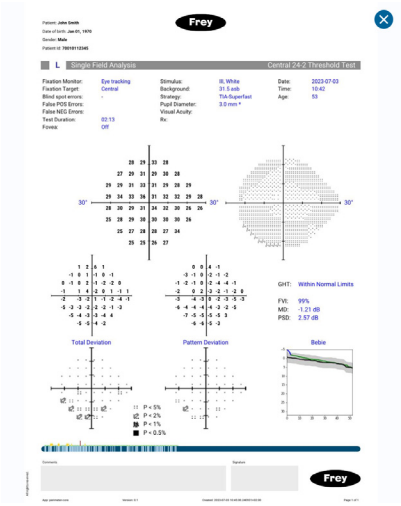
Exam reports are easily generated and displayed on a high-quality 17" HD Capacitive Touch Screen allowing clinicians to interpret and diagnose on the device without need for printing. Precise multipoint capacitive touch screen improves clinician interface and workflow navigating exam options and entering patient information.

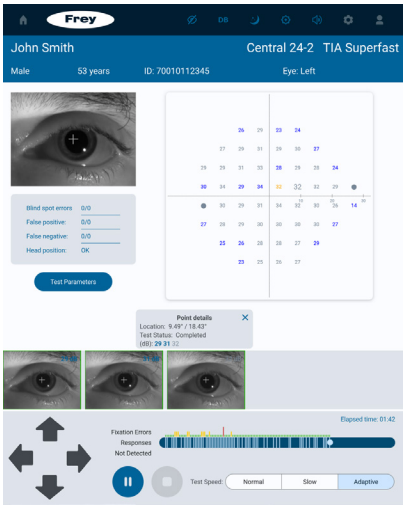
Advanced Eye Tracking for shorter exam time

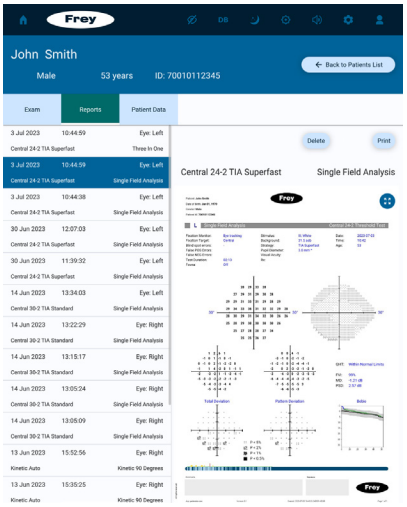
Liquid lens auto focusing eye-tracking camera reliably produces focused image of the patient eye assuring precise gaze tracking. With each stimulus presentation, an eye image is captured. Most recent eye and multiple eye images can be visualized on the screen. Stimuli locations that have been tested with inadequate fixation (automatically marked red) can be easily selected and subjected to retesting. The progress bar informs the clinician patient fixation level and response to the stimuli presentation through entire exam. Upon completion of the exam results can be reviewed and the history of patient fixation for each stimuli location can be easily reviewed to assure the clinician
of exceptional reliability of exam data.

Near Vision Test - automatically verify patient's refractive correction

A majority of patients aged 40+ do require correction lens for perimetry exam. Snellen E optotype in different orientation and sizes are presented to the patient on measurement bowl surface prior to exam. This provides the clinician with highly accurate and objective information about each patients' corrections. When testing with a Goldman III stimulus, one diopter of refractive blur will produce around 1dB depression of the hill of vision. Accurate correction is important for precise visual field exams. It is recommended that the patient should be able
to recognize 0.8 stimulus size.







AP-600 Technical Specification

Device type	AP-600 Automated Perimeter
Test Specifications	
Maximum temporal range (degrees)	90
Stimulus duration	200 ms/ 500 ms or 0.1-9.9s
Visual field testing distance	30 cm
Background illumination	31.5 ASB White/ 10 ASB White/ 315 ASB Yellow
Stimulus	
Stimulus size	Goldmann I II III IV V
Stimulus color	White/ Green/ Red/ Blue
Stimulus presentations	White-on-White/ Red-on-White/ Green-on-White Blue-on-White/ Blue-on-Yellow (SWAP)
Test Strategies - Threshold	**Test Strategies - Suprathreshold**
TIA-Superfast, TIA-Fast, TIA-Standard, TIA-SWAP, Full Threshold, Fast Threshold, Foveal Threshold	Two Zone, Three Zone, Quantify Defect
	Test Modes
	Age Corrected, Threshold Related, Single Intensity
Test Fields	
Threshold	Suprathreshold
Central 24-2, Central 24-2C, Central 10-2, Central 30-2, Peripheral 60-4, Macula, Nasal Step	Central 40 Point, Central 64 Point, Central 76 Point, Central 80 Point, Armaly Central, Nasal step, Peripheral 60 Point, Full Field 81 Point, Full Field 120 Point, Full Field 135 Point, Full Field 246 Point, Armaly Full Field, Superior 36 Point, Superior 64 Point, Esterman Monocular, Esterman Binocular, Gandolfo
Fixation Control	
Heijl-Krakau blind spot monitor	
Video camera eye preview	
Digital Eye Tracking (DETect)	
Head Tracking	
Vertex monitoring	
Software features	
Foveal threshold testing	EyeSnap function
Automatic pupil measurement	Near Vision Test
Single Field Analysis (SFA)	Custom static test patterns
Glaucoma Hemifield Test (GHT)	Auto kinetic
Field of View Index (FVI)	Custom kinetic test patterns
Serial field overview	Manual kinetic
DICOM Export	Remote Diagnostics and Software Loading
DICOM OPV (Ophthalmic Visual Field)	User defined results storage location
DICOM Worklist Modality	Progression Analysis
Device Features	
Display	17” HD Capacitive Touch Screen diagonal
Keyboard/ Mouse support	Yes
Networking	LAN and Wireless
Chinrest	Automated - up, down, left, right movement
Speakers and microphone	Build-in
Dimensions	
Height	633 mm
Width	566 mm
Depth	396 mm
Weight	25 kg

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