COMPUTERISED

AUTOMATED PERIMETER

AUTOMATED PERIMETER AP-1000 / AP-2000

- *Modern Eye Tracking System*
- *LED-Technology*
- *Digital Camera Controlled*
- *Blue On Yellow Test*
- *Multilingual User Interface*
- *Customised Test Programs*
- *Driving Test*

HS Optikmaschinen

STATE of the ART

SOPHISTICATED PERIMETRY WITH THE TOMEY AP-1000 / AP-2000

Both Tomey Perimeters are developed to meet the needs of modern Ophthalmology. The AP-1000 is designed to fulfil all standard tests and it is therefore economically extreme attractive. Using the state of the art available technology – such as LED-illumination, blue on yellow tests and electronic assisted patient positioning – the AP-2000 sets the latest standards in modern perimetry.

Modern Eye Tracking System

Both Systems are equipped with a "state of the art" digital passive eye tracking system. It records only measurements taken under perfect fixation conditions. Rejected recordings will be automatically repeated. The patients eye is displayed at any time during the examination for visual control by the examiner. Of course, the fixation control with Heijl-Krakau method is also integrated.

Short Examination Time

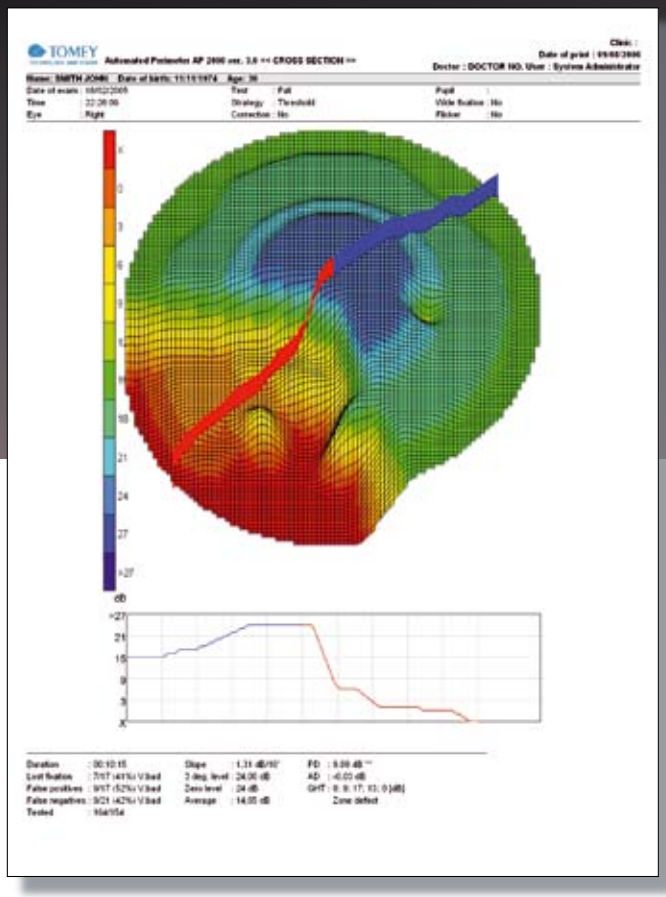
Due to the fact that the units can take former testing protocols of the same patient into consideration, the examination time can be reduced tremendously. Already known defects will be screened and not necessarily checked through a complete testing routine again.

Pupil Measurement

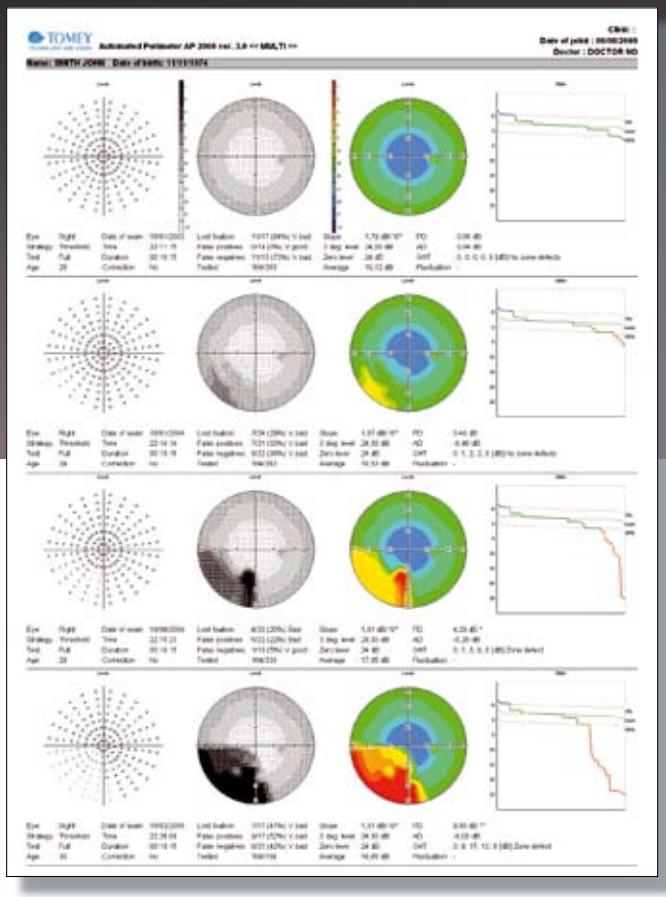
You can measure the pupil diameter at any time even before, after or during the examination.

Multilingual User Interface

Both Perimeters are equipped with a multilingual user interface. Additional languages can be easily integrated.



3D-Analysis and Cross Section



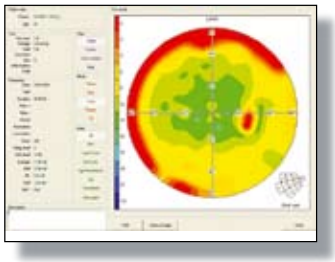
TOMEY Perimeter Printout

Customised Test Programs

Beside the standard tests you have the possibility to define new customised examination programs or change the parameters for your individual needs. An unlimited number of customised test programs can be added.

Driving Test

The integrated standard driving test can be modified according to your individual demands.



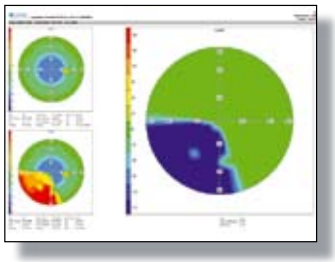
Single Map Screenshot

Modern Data Handling

The AP-1000 comes with a modern cube PC that communicates with all USB printers. All acquired data can be transmitted to a network and sent in many different formats depending on your requirements. The design of the AP-2000 is more compact due to the integrated PC. This saves valuable space and reduces cables.

LED-Technology / Blue On Yellow Test

The AP-2000 integrates the LED background illumination and provides, using Goldman V fixation spot size, a standardized blue on yellow test routine.



Visible Difference Map (printout)

Electronic Chin Rest

The AP-2000 is equipped with an electronic chin rest for exact patient positioning.

AP-1000
Automated Perimeter

Specifications

Stimulator Bowl Type	Part hemispherical, radius 300 mm. Integrated diffusing surface
Visual Field Extent	100°

Standard Test Fields

Full 50°	164 points
Glaucoma 22°/50°	104 points
Central 30°	120 points
Central 22°	96 points
Wide 22°/30°	128 points
Peripheral 30° to 50°	72 points
Macula 10°	48 points
Driving 50°/80°	192 points

Stimulus Source	Rear projection LED
Stimulus Colour	Green 570 nm
Stimulus Size	Goldmann size III (0.43°)
Stimulus Intensity	0.03 asb to 1000 asb in 15x3 dB or 45x1 dB steps
Exposure Time	Adjustable: 0.1 to 9.9 s
Response Time	Adjustable: 0.1 to 9.9 s
Inter Test Delay	Adjustable: 0.1 to 9.9 s
Background Illumination	10 asb (3.2 cd/m), automatic level control
Fixation Control Method	Heijl-Krakau - blind spot method and digital camera
Fixation Monitor	Yellow LED, 588 nm
Test Lens Diameter	38 mm

Dimensions & Electric Requirements

Dimensions WDH	740 x 640 x 450 mm
Weight	Approx. 12.0 kg
Power Supply	AC 115 to 240 V
Frequency	50/60 Hz
Power Consumption	Less than 220 VA

AP-2000
Automated Perimeter

Specifications

Stimulator Bowl Type	Part hemispherical, radius 300 mm. Integrated diffusive screen
Visual Field Extent	100°

Standard Test Fields

	green / white	blue / yellow
Full 50°	165 points	164 points
Glaucoma 22°/50°	101 points	100 points
Central 30°	117 points	116 points
Central 22°	93 points	92 points
Wide 22°/30°	128 points	127 points
Peripheral 30° to 50°	72 points	72 points
Macula 10°	45 points	44 points
Driving 50°/80°	189 points	188 points

Stimulus Source	Rear projection LED
Stimulus Colour	Green 570 nm, Blue 435 nm
Stimulus Size	Goldmann size III (0.43°) for green, Goldman size V for blue
Stimulus Intensity	0.03 asb to 1000 asb in 15 steps with 3 dB or 45 steps 1dB for green, 0.01 asb to 65 asb with 1 dB step for blue
Exposure Time	Adjustable: 0.1 to 9.9 s
Response Time	Adjustable: 0.1 to 9.9 s
Inter Test Delay	Adjustable: 0.1 to 9.9 s
Background Illumination	10 asb (3.2 cd/qm) for green on white test 100 cd/qm for blue on yellow test, automatic level control
Fixation Control Method	Heijl-Krakau - blind spot method and CCD camera
Fixation Monitor	Yellow LED, 588 nm
Test Lens Diameter	38 mm
Chin Rest	Electric
PC	Embedded, Pentium Celeron Mobile processor, 512 MB RAM, 40 GB HDD

Dimensions & Electric Requirements

Dimensions WDH	740 x 640 x 450 mm
Weight	Approx. 20.0 kg
Power Supply	AC 100 to 240 V
Frequency	50/60 Hz
Power Consumption	Less than 140 VA

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