

HENSON 8000

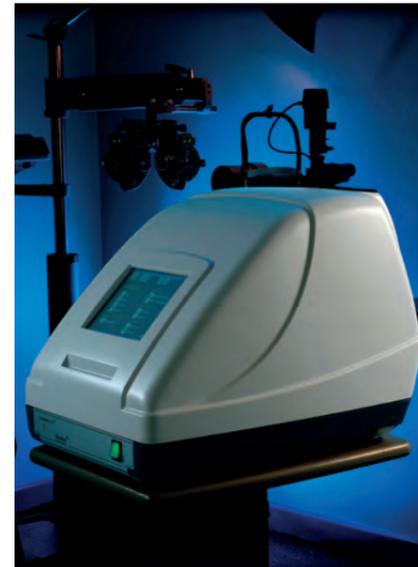
Technical Specification

Target type (Stimulator screen)	Bowl	
Target distance	25 (cm)	
Maximum stimulus illumination	10,000 (Stimulus intensity) asb	
Background illumination	31.5 (asb)	
Stimulus source	LEDs white	
Stimulus size	Goldmann III	
Presentation time	Stimulus flash time (msec)	200
	Minimum inter-stimulus delay (sec)	0.5
	Patient response time	Adaptive or fixed
Fixation	Fixation target	Single and 4 point
	Heiji-Krakau	Yes
	Video eye monitor	Yes
	Control device	Touch screen —Optional keyboard/mouse
Test programs	Full threshold central	10-2, 24-2
	Fast threshold central	10-2, 24-2
	Zata std t hreshold central	10-2, 24-2
	Zata fast threshold central	10-2, 24-2
	Suprathreshold single stimulus	1-3 Level. Can manually add test locations
	Suprathreshold multiple stimulus	1-3 Level. Can manually add test locations
	Estermann (DVLA driving test)	Binocular
Unit dimensions	W x D x H (mm)	580 x 460 x 430
Unit weight (kg)	14.5	
Input voltage	85 - 263	
Chin rest	No	
Head rest	Yes	
Database	MS Windows™ compatible, onboard and networkable	
Optional printer	MS Windows™ compatible, dependant on PC/laptop	



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HENSON 8000



Henson Perimeters
Fast. Flexible. Compact. Easy to use

Elektron Technology

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Henson 8000 Perimeter. The latest technology for ophthalmic professionals.



The new Henson 8000's solid-state technology gives you fast, accurate results and standard format printouts.

Are you a Henson 6000 user already? If so, the 8000 is fully compatible and has brand new features.

'By refining and improving our technology we have made the system quicker and smoother. This ensures we are able to see more patients more quickly and deliver better and more easily accessible results.' Prof. David Henson



Key Features and Benefits

Fast, new, accurate algorithms:

- New ZATA threshold algorithm conforms to Goldmann standard
- Faster threshold testing using prior data for greater accuracy
- Fast multiple and single stimuli suprathreshold programmes

Data collaboration facilities:

- Fully networkable through Microsoft Windows™ operating system
- Wi-Fi network integrated
- Microsoft Windows™ compatible database
- PDF format printouts available

Standardisation:

- Fully compatible with UK DVLA driving test
- Fully compatible with Estermann Test
- Fully compatible with Henson 6000 screening
- Conforms to Goldmann standard

Innovative technology:

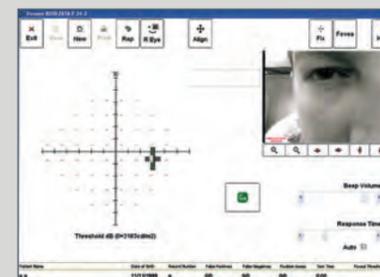
- Degradation-free light source
- Solid-state technology
- Low maintenance costs

ZATA

Professor David Henson, the inventor of the technology, has developed the Zippy Adaptive Threshold Algorithm (ZATA). The 8000 offers two versions of this adaptive test: Standard and Fast. Both use the traditional 10-2 and 24-2 test patterns, the Goldmann standard size stimuli and background luminance level. All the algorithms use prior visual field data, when available, to reduce test times and improve accuracy.

The new adaptive algorithm recognises that not all test locations need the same threshold accuracy.

For example, threshold estimates for severely damaged locations (<10dB) need not be as accurate as those for locations with less damage.



The new algorithm adjusts threshold accuracy according to need, reducing test time, especially in normal eyes and in those with severe loss.

The new software produces high quality printouts that match many of the current hospital perimeters. This aids interpretation by staff who are more familiar with the existing technology.

The software operates in the Microsoft Windows™ operating system, allowing full network capabilities for printing and also the storage of patients' records on central servers for multiple machine access.

Other Henson 8000 features include built-in Wi-Fi and three USB ports to link to printers, external storage media, keyboards and other USB devices.

Compatibility

Data from existing users of Henson 6000 can be transferred to the new Henson 8000 for legacy viewing.

Tests

The Henson 8000 Perimeter has the multiple and single suprathreshold programs associated with the Henson range, but also has threshold tests that meet – and in some cases exceed – current instrument performance.

Networking

The Henson 8000 is fully networkable through the Microsoft Windows™ operating system and has integral Wi-Fi connectivity which can be enabled if required.

Stable

With over 25 years' experience of manufacturing perimeters in the UK, Elektron Technology Ophthalmics is using the latest generation of white LEDs for the 8000. More stable and energy efficient than filament lamps, they have an exceptionally long life.

As Professor David Henson, who invented Henson perimeters explains:

'Glaucoma continues to be a major problem. We are still not detecting cases early enough; that is not down to any equipment failure but the usual problem of patients being reluctant

to refer themselves. However, by refining and improving our technology we can make the system quicker and smoother. This will ensure that we are able to see more patients more quickly and deliver better and more easily accessible results.'

Like its predecessor, the Henson 8000 offers the UK DVLA Approved Estermann drivers test. It is manufactured and tested to ISO 13485: 2003 and is CE and FDA approved.

Printout from the new ZATA threshold test showing an early superior arcuate defect in the left eye.

