



About Tinsley



The Tinsley offices and factory are based in Redhill, Surrey UK.

Tinsley, was founded in 1904 and became world famous for their manufacture of precision instrumentation in resistance measurement. Later in the mid eighties Tinsley produced their first visual field analyser in partnership with Professor David Henson of Manchester University and has been supplying the industry ever since, becoming a market leader in perimetry throughout the UK.

Tinsley is now part of the Hartest Precision Instruments group which give even more strength to the business.

When it comes to treating glaucoma, the importance of early detection and management is paramount, so, optical professionals worldwide are increasingly demanding high specification perimeters.

In the UK, Tinsley Ophthalmic Henson perimeters have led the way in premium technology for initial screening for over 25 years.

The new Henson 8000 gives you:

- Current Henson 6000 features - including the UK DVLA driving test tests
- Faster threshold tests that use prior data
- The latest ZATA

And is:

- Developed to the global Goldmann standard
- Manufactured in the UK to ISO 12866 by Tinsley Ophthalmic

Tests

The new Henson 8000 perimeter has the multiple and single supra-threshold programs associated with the Henson range but also has threshold tests that meet and, in some cases, exceed current instrument performance.

Stable

With over 25 years' experience of manufacturing perimeters in the UK, Tinsley 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:

"The need for visual field analysers will only increase in the future.

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 Estermann and UK driving test (DVLA approved), has been tested to ISO 12866 and is CE and FDA approved.

Henson 8000 Technical Specification

Specification	8000
Target Type (Stimulator Screen)	Bowl
Target Distance Cm	25
Maximum Stimulus Illumination (Stimulus Intensity) Asb	10,000
Background Illumination (Asb)	31.5
Stimulus Source	Leds
Stimulus Colour	White
Stimulus Size	Goldmann III

Presentation Time

(Stimulus Duration Time) Msec	200
Minimum Inter Stimulus Delay (Sec)	0.5
Patient Response Time	Adaptive or Fixed

Fixation

Fixation Target	Single and 4 point
Heijl-Krakau	✓
Video Eye Monitor	✓
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 Threshold 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

Wmm x Dmm x Hmm”	580X460x430
Unit weight Kg	14.5 Kg
Input voltage	85 - 263
Chin rest	None
Head rest	✓
Database	MS Windows™ Compatible
Optional printer	MS Windows™ Compatible

Tinsley Ophthalmic

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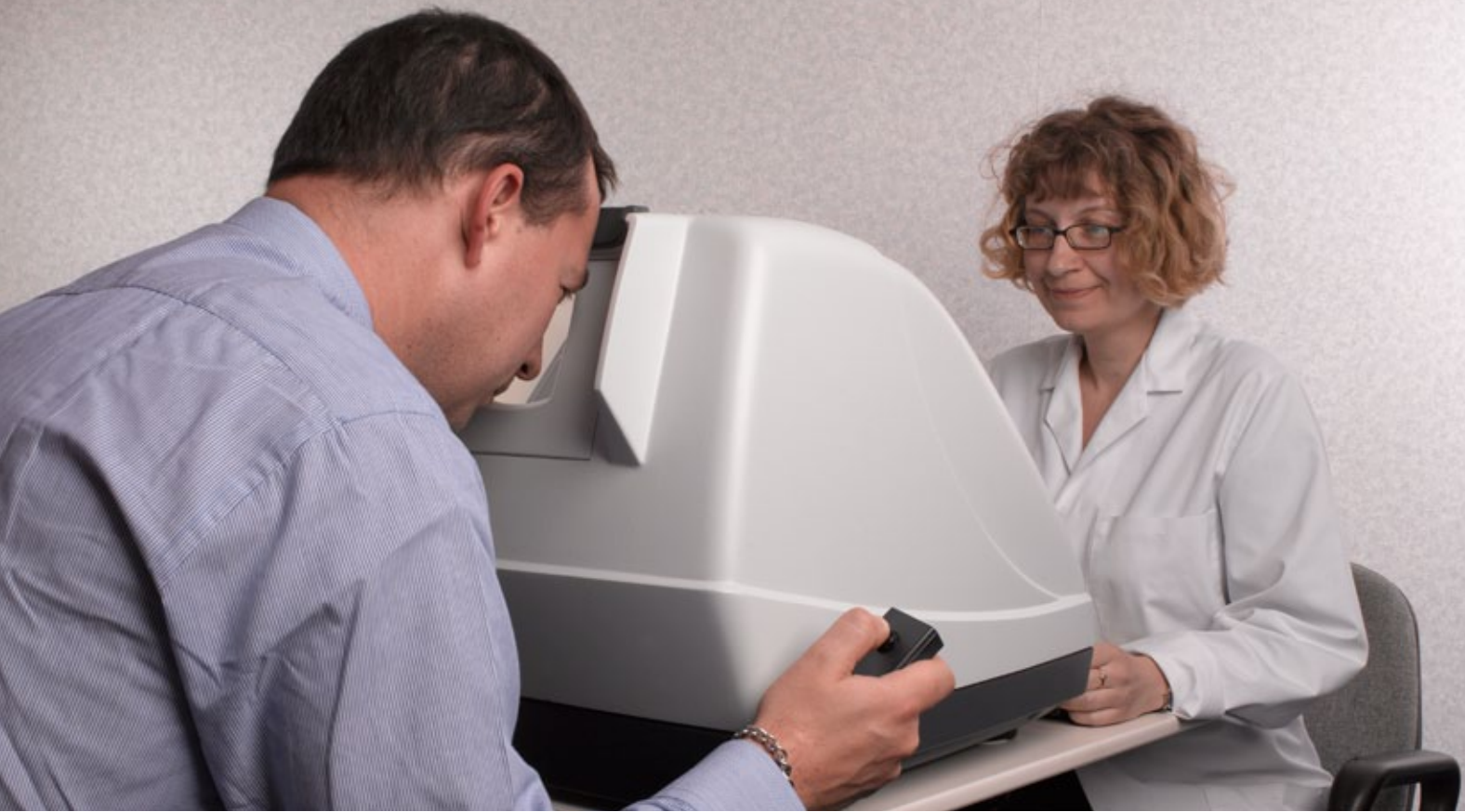
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THE HENSON 8000 PERIMETER – FEATURES AND BENEFITS

- ↗ New ZATA threshold algorithm conforming to Goldmann standard
- ↗ Faster threshold testing using prior data for greater accuracy
- ↗ Fast multiple and single stimuli supra-threshold programmes
- ↗ Fully networkable through Microsoft Windows™ operating system
- ↗ Microsoft Windows™ compatible database
- ↗ Fully compatible with Henson 6000 screening and UK DVLA driving test
- ↗ Degradation-free light source
- ↗ PDF format printouts available
- ↗ Solid-state technology
- ↗ Low maintenance costs
- ↗ WiFi network option



Henson 8000 perimeter Latest technology for ophthalmic professionals

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

Compatibility

Are you a Henson 6000 user already?

If so, the 8000 is fully compatible and has brand new features including:

- ↗ ZATA algorithm**
- ↗ Prior data use for quicker testing**
- ↗ Standard printouts of threshold data**

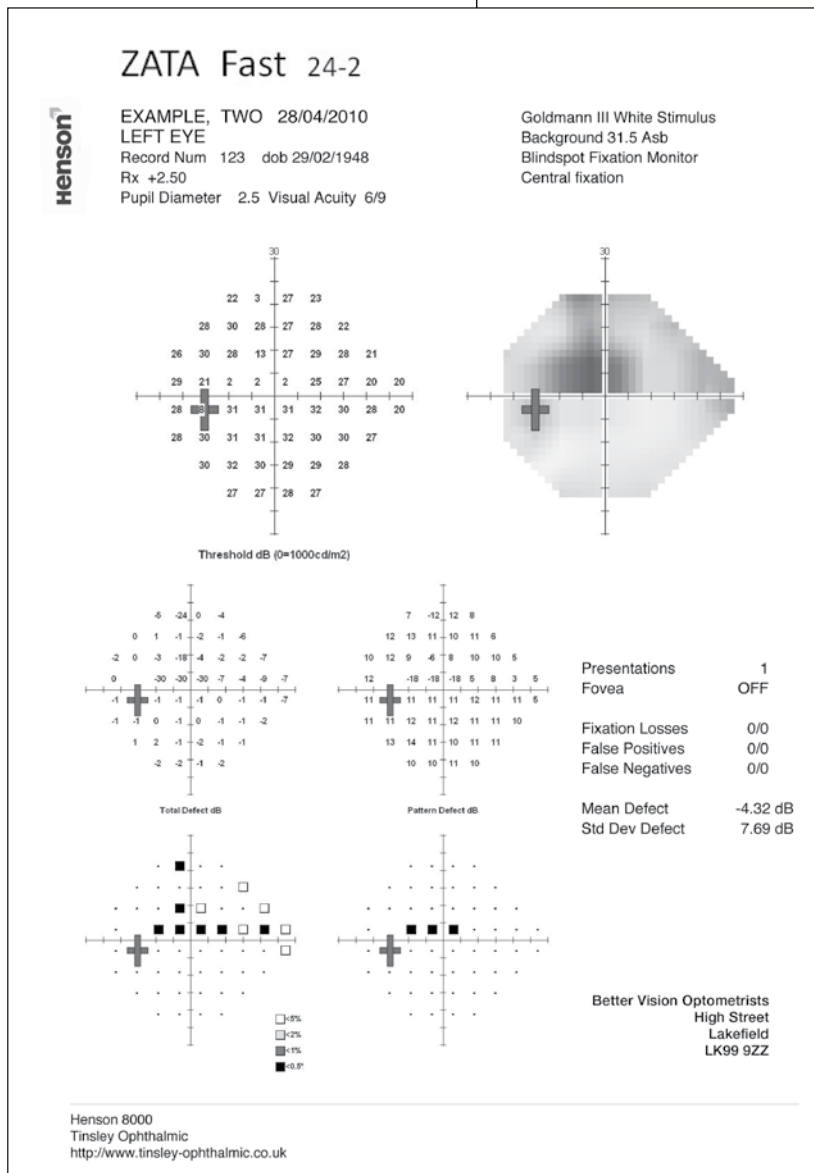
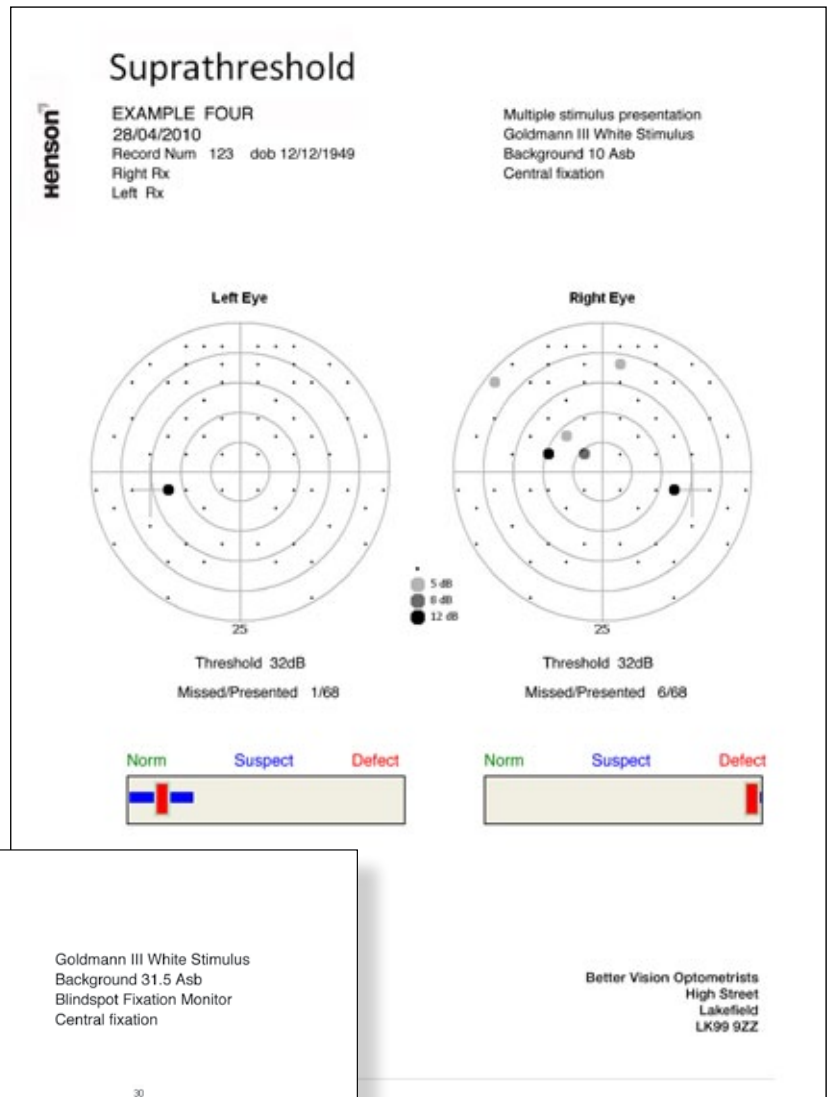
And is:

- ↗ Designed to ISO 12866:1999**
- ↗ FDA approved**
- ↗ CE marked**

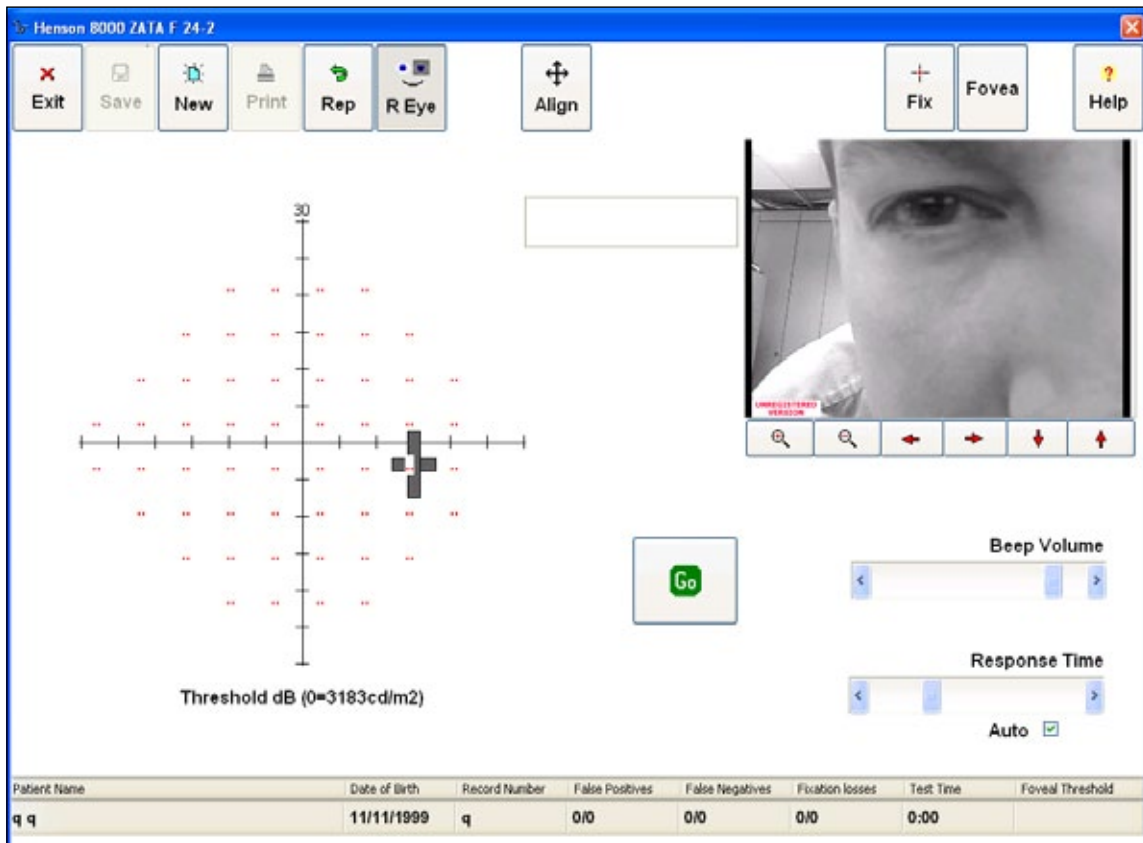
Right:
Suprathreshold testing

Prof David Henson.

“By refining and improving our technology we can make the system quicker and smoother. This will ensure we are able to see more patients more quickly and deliver better and more easily accessible results.”



Left:
Printout from the new Zata threshold test showing an early superior accurate defect in the left eye



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 Goldman standard size stimuli and background luminance level. All the algorithms use prior visual field data, when available, to reduce test times and improve accuracy.

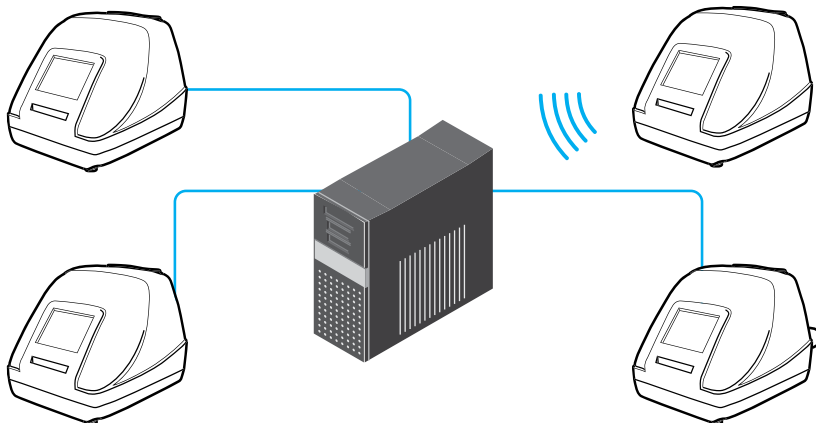
The new adaptive algorithm recognises that not all test locations need the same threshold accuracy.

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.

New high quality printouts that match those produced by many of the current hospital instruments. This aids interpretation by staff who are more familiar with the existing technology.

The software operates in the Microsoft Windows™ environment allowing the storage of patient test results either locally or on dedicated servers.

Other Henson 8000 features include automatic calibration to maintain accuracy, plus three USB ports to link to printers, storage media, keyboards and other USB devices. The 8000 also has integral WiFi connectivity, which can be enabled if needed.



Networking

The Henson 8000 is fully networkable through the Microsoft Windows™ operating system and has optional WiFi capabilities which can be enabled if required.