## Octopus® 600 – suits your needs

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<tr>
<td>Static perimetry, PM, NL</td>
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<tr>
<td>Methods pulsar and white-on-white</td>
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<td>VEP test strategy for pulsar</td>
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**Perimetry you can trust**

From the technology leader in perimetry.
Your new partner for early diagnosis

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- **PULSAR early detection and standard white-on-white perimetry in one compact sized instrument.**
- **Intuitive, streamlined operation that saves you and your patients time.**
- **Standalone or network configuration which fully integrates into your workflow.**

**PULSAR - PROVEN EARLY DETECTION**

Pulsar is a patented flicker stimulus, showing a ring pattern with different contrast levels in counterphase. Independent studies confirm, the test is easy - even pleasant - to take, while being both sensitive and specific in the early detection of Glaucoma.

**STANDARD WHITE-ON-WHITE PERIMETRY**

The Octopus 600 performs standard white-on-white perimetry using modern TFT technology. By using adapted stimulus sizes it reaches a wide dynamic range known from projection type perimeters for long term follow-up.

The ergonomically designed response button fits nicely in the hand and is easy to use even for patients with arthritis.

EyeSuite™ with intuitive touch screen operation or external mouse and keyboard.

More technology – fewer components

Your PAPERLESS OFFICE is the world’s most widely used database network solution for analyzing Octopus and HFA visual fields. Unlike semi-professional software that allows looking at previously created printouts only, EyeSuite™ keeps all numeric examination results and parameters in a MySQL database and re-analyses the data with the latest technology right when you pull it up for review.

**WORKFLOW IN A MODERN PRACTICE**

1. Selecting patients for testing on either Octopus or your EMR at the reception desk
2. Perform pulsar or standard white-on-white perimetry on the Octopus 600
3. Perform standard white-on-white perimetry, Goldmann Kinetic, SWAP, Flicker or Red-on-White on the Octopus 900
4. All data is automatically saved on your server in a MySQL database
5. Results can be analyzed and shown to your patients right on your computer
Proven software – streamlined workflow

EYESUITE™ – A SOLID BASE

The same, easy to use, EyeSuite™ software already known from the Octopus 900 has been further streamlined to operate the Octopus 600. It just takes a few simple steps to perform a complete examination.

1) Select the patient from the integrated patient list or automatically import the patient data from your EMR or DICOM server

2) Place the patient at the instrument, explain the test as displayed on the screen and hit...

4) ...or immediately perform left/right and trend analysis on your desktop PC

3) Analyze the results and create printouts from the instrument...

The Octopus 600 extends the successful HAAG-STREIT product range of visual field analysers with its first TFT-Based Perimeter. The compact standalone instrument runs white-on-white perimetry and the pulsar method for early detection of glaucoma. The data analysis is performed using EyeSuite™, either on the integrated PC or in a network environment.
The instrument has built-in correction for presbyopia and allows examinations with the patient’s own glasses.

PERIMETRY SIMPLIFIED

With the Octopus 600, it doesn’t take an expert to run a reliable field. It just takes 3 simple, intuitive steps:
1. Select a patient
2. Choose pulsar or standard perimetry
3. Click

IT FITS ANYWHERE

The Octopus 600 from HAAG-STREIT has a small, compact design allowing for a minimal footprint. Add in silent operation with no fans or motors and you have a perimeter that can be placed anywhere in your office. To prevent the patient from being distracted, the side view is shielded. The few clicks needed to operate the perimeter can easily be done on the side by the receptionist.

A PLEASURE TO TAKE

Has perimetry ever been a pleasure to take? Now it is. Friendly, large trial lenses and built-in correction for presbyopia allows for an easy patient experience in performing a visual field. An ergonomic response button, comfortable downward gazing position and short test durations of usually just 2–4 minutes for a full threshold, make this test much more patient-friendly to help with patient compliance in returning for follow-up visual fields.

Patient ergonomics include a newly designed response button.

The Octopus 600 needs no dark room and nicely fits at the front desk or in the waiting area.
A perfect team: PULSAR and ...

PULSAR – RAPID AND EASY

"PULSAR T30W test is a rapid and easy perimetric method, showing higher sensitivity than SAP in detecting early glaucomatous VF loss."  

EARLY DETECTION

Various studies over the past decades have shown, that contrast sensitivity and flicker sensitivity are affected in glaucoma. The pulsar method combines both by presenting a contrast modulated ring target that flickers at 10 Hz in counter phase. The pulsar parameters have been optimized to reach a best possible AROC – Area under the Receiver-Operating-Characteristic. This characteristic is displayed in the graph below, and tells how many patients can be correctly diagnosed at a certain specificity level (false alarm rate).

EASY METHOD

Unlike other early diagnostic methods that challenge the patient with hard to distinguish answering criteria, pulsar requires no more than a simple click for every target that appears. Invented in the year 1998 by Professor González de la Rosa, the method has been extensively validated and refined to result in today’s ”Pulsar T30W” test. HAAG-STREIT provided this new method to independent research groups. The results were very convincing. Consequently, HAAG-STREIT decided to create a new perimeter based on this method: The Octopus 600.

The pulsar stimulus is flickering at a constant frequency of 10 Hz. Contrast and resolution are modulated to reach a wide dynamic range. The stimulus has been designed to keep the same level of contrast in all edges to avoid stimulation of those cells that selectively respond to a given orientation.

At 99% specificity, pulsar reaches a very high sensitivity for early Primary Open Angle Glaucoma of over 60%.

2) Patents US2002/0047996, JP2001-299700, DE10115508, CH0773/00
FOLLOW-UP

White-on-white perimetry is the standard for long term follow-up in glaucoma and various other pathologies. The Octopus 600 is the first screen based perimeter that performs standard perimetry on a flicker free screen, using TFT technology. A dynamic range, similar to the one of projection type peripherals, is reached by dynamically increasing the stimulus size from Goldmann III up to Goldmann VI once reaching the maximum screen luminance. Furthermore, this principle makes use of the improved repeatability larger stimuli have in zones of advanced pathology.

The Octopus 600 allows follow-up and trend analysis with standard white-on-white perimetry.

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<th>PULSAR</th>
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<tr>
<td>Principle</td>
<td>Differential light sensitivity threshold</td>
<td>Flicker-Contrast-Resolution threshold</td>
</tr>
<tr>
<td>Application</td>
<td>Diagnosis and long term follow-up</td>
<td>Early diagnosis / early follow-up</td>
</tr>
<tr>
<td>Background</td>
<td>10 cd/m²</td>
<td>32 cd/m²</td>
</tr>
<tr>
<td>Dynamic range</td>
<td>~ 35 dB</td>
<td>~ 35 src&lt;sup&gt;6&lt;/sup&gt;</td>
</tr>
<tr>
<td>Target diameter</td>
<td>0.43°(Goldmann III)</td>
<td>5°</td>
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<tr>
<td>Stimulus duration</td>
<td>100 ms</td>
<td>500 ms (@10 Hz Flicker)</td>
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<tr>
<td>Programs</td>
<td>G, 32, 24-2</td>
<td>Gp&lt;sup&gt;7&lt;/sup&gt;, 32p&lt;sup&gt;8&lt;/sup&gt;</td>
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<sup>6</sup> src is a combined spacial resolution and contrast scale, equivalent to standard perimetry decibels
<sup>7</sup> Gp is the Octopus program G with some of the central test locations moved away from the horizontal and vertical meridians to avoid crossing of the midlines
<sup>8</sup> 32p is the Octopus program 32 excluding the top and bottom row at Y coordinates 27° and −27°
<sup>9</sup> TOP is an option in standard white-on-white perimetry and not available for program 24-2
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www.haag-streit-uk.com
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- **PULSAR early detection and standard white-on-white perimetry in one compact sized instrument.**
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- A fast high resolution color TFT screen for examinations
- Large flat screens and bulb in correction for presbyopic simply patient setup
- EyeSuite™ with intuitive touch in screen operation or external mouse and keyboard
- The ergonomic response button fits nicely in the hand and is easy to use even for patients with arthritis

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