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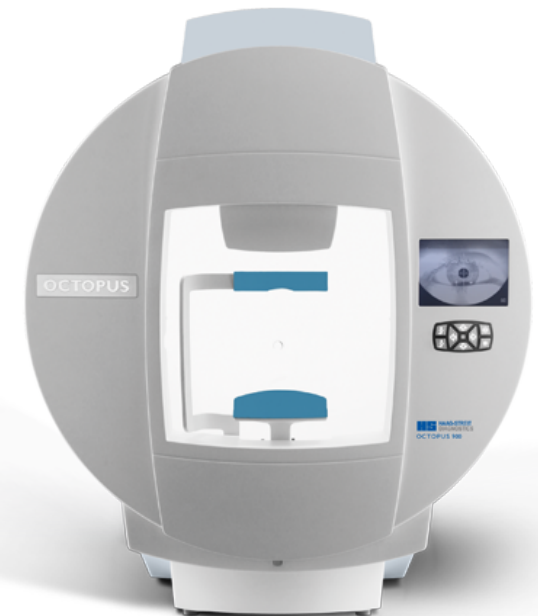
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OCTOPUS 900

## Universal and flexible

Everything you can ask of a perimeter is offered in one device: full field static and kinetic perimetry, a easy-to-read analysis software and the ability to network it with integrated EyeSuite software.



## FULL FIELD STATIC PERIMETRY

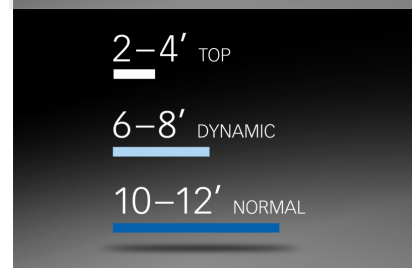
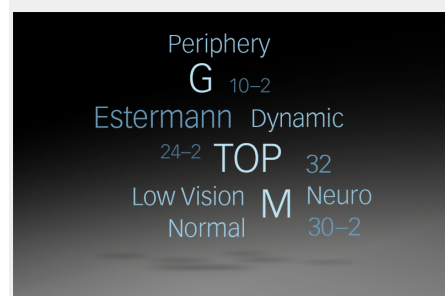
# Everything you need

The Octopus 900 performs standard white-on-white threshold testing in just 2–4 minutes in the central visual field. With its comprehensive test library for central and peripheral tests and its flexible printouts both in Octopus and HFA-format it covers all your clinical needs.

## COMPREHENSIVE TEST LIBRARY

# A test for any situation

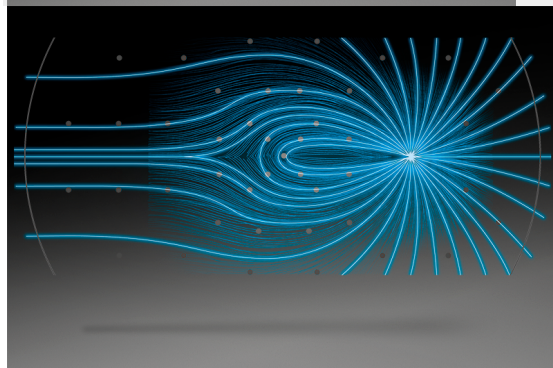
The Octopus 900 offers all commonly used standard static tests. For central field testing there are the physiology-based G-patterns following the retinal nerve fibers and the 32, 30-2 and 24-2 patterns. For the macula, there are the physiology-based M pattern and the 10-2 pattern. With the fast TOP strategy, full threshold testing can be completed in just 2-4 minutes. The commonly used binocular Esterman test, as well as a neurological and a peripheral glaucoma pattern are also included. And if you're still missing a test, why not create it yourself with the Custom Test option?



Tendency-Oriented Perimetry (TOP) presents a further optimisation in fast-threshold testing by reducing the examination time by nearly 80% to just 2–4 minutes compared to 6–8 minutes (dynamic strategy) or 10–12 minutes (normal strategy). The TOP algorithm is a systematic method which takes into account the correlation of the threshold values in neighbouring locations. Since the first test points are presented at a supra-threshold level, even inexperienced patients quickly understand the nature of the test.

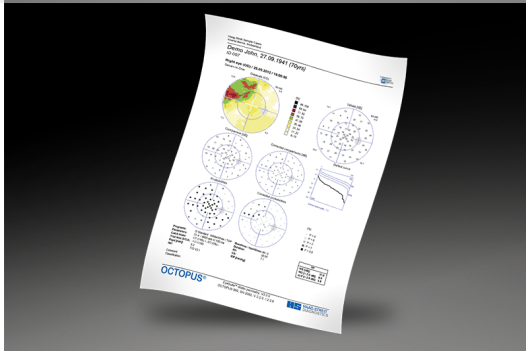
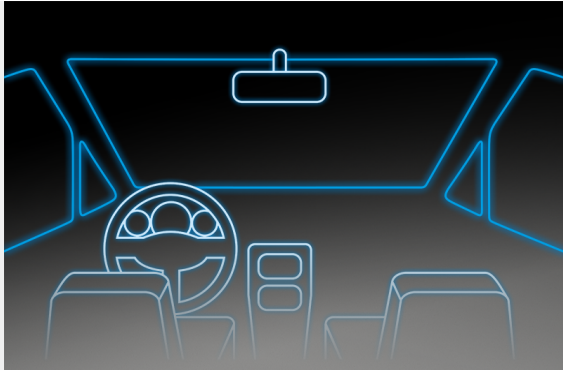
The Octopus 900 provides you with complete testing flexibility. Besides standard white-on-white perimetry with a Goldmann III stimulus, it also offers a Goldmann size V stimulus for low vision patients as well as blue-on-yellow and flicker perimetry for early glaucoma detection and corresponding normative databases for each of those stimuli.

Would you like to try other settings? Then use the flexible custom test function to create the test you want.



All Octopus perimeters offer two unique physiology-based patterns: the G-Program (a 30-degree field for glaucoma assessment) and the M-Program (a 10-degree field for analysing the macula). They are both correlated with a nerve fibre bundle map and thus make it possible to test the points which are most important for a structure-function correlation. These examination patterns offer a higher density of stimuli in the centre, which aids the discovery of paracentral scotomas that are often missed by the common 32 pattern.

Assess your patients' ability to drive with the commonly used standard binocular Esterman test. This test is widely required by regulating bodies as a standard examination for visual fitness to drive.



OCTOPUS PRINTOUT

## Standard Octopus representations

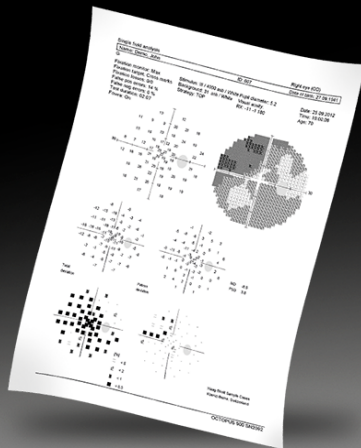
Look at visual field results the way you are used to from your Octopus perimeter. All Octopus perimeters offer the standard 7-in-1 printout with its well-known representations, a customizable 4-in-1 printout, a serial printout and much more. And why not conveniently view results in your office by networking your Octopus to the EyeSuite software on your computer?

HFA-STYLE PRINTOUT

## Smooth transition from HFA



Enjoy a smooth transition from a HFA to an Octopus perimeter. All Octopus perimeters allow you to import your historic HFA data. Because raw data is imported, you can display your historic and new data in the same format of your choice, either as an HFA-style printout or in the Octopus format. To learn more about how the two formats correlate, watch the movie.



EYESUITE GLAUCOMA ANALYSIS

# A clear view on glaucoma

Get the most out of your glaucoma visual field with the highly sensitive Cluster Analysis, the intuitive Polar Analysis for structural comparisons and the easy-to-interpret EyeSuite Progression Analysis.

## EYESUITE PROGRESSION ANALYSIS

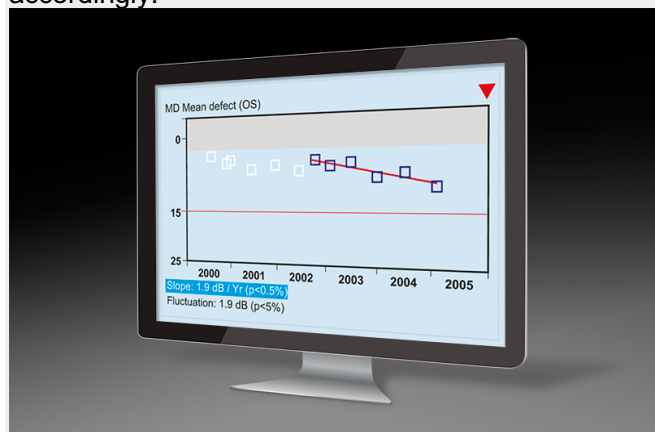
# Immediate identification of true change

Immediately identify levels of change with the EyeSuite Progression Analysis. It not only reveals whether change is significant, but also whether it is local or diffuse and how fast the change happening. For an effective clinical workflow, all results are displayed using intuitive graphical symbols and can be viewed directly in your office if the Octopus is networked.



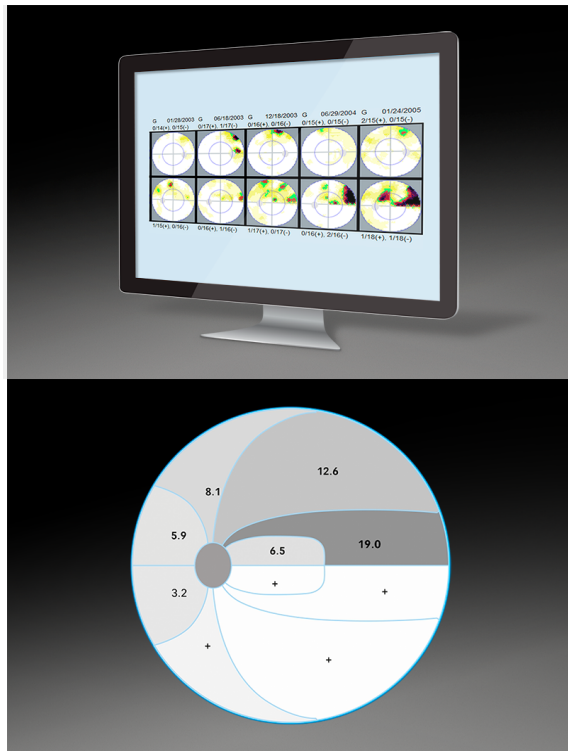
Assessing glaucomatous change from serial visual fields is not always easy, and expert agreement is moderate at best. Why not let EyeSuite Progression Analysis be your guide in assessing change? Red downward-pointing arrows show deterioration, green upward-pointing arrows show improvement and yellow diamonds show fluctuation at both at 1% and 5% significance level. This allows you to identify change at a glance.

The rate of glaucoma progression is key when choosing the right treatment for your patient. Therefore, EyeSuite Progression Analysis always shows you the rate of change in decibels per year. Now, you can quickly distinguish between fast and slowly progressing patients and adjust your treatment accordingly.



Looking at global visual field change is not always enough to fully assess visual field progression. Sometimes, diffuse loss due to cataracts overlaps with local glaucomatous change. In other cases, unspecific diffuse loss due to learning effects, fatigue or refractive errors, for example, can underlie small local changes. The indices Diffuse Defect DDc and Local Defect LDc are helpful in these cases. They quickly show you whether change is local, diffuse or both and further support your clinical decisions.

Are you looking for an effective way to encourage your patients' compliance? Then show them their visual field progression on the intuitive greyscale charts to help them to understand what glaucoma progression truly means for their vision. To do this effectively, network your Octopus perimeter and show the results directly on a computer screen in your examination room.

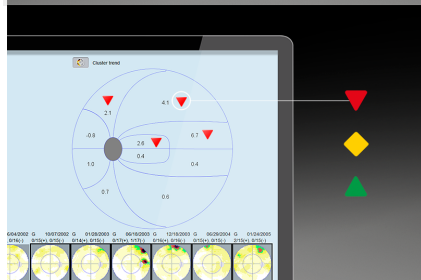
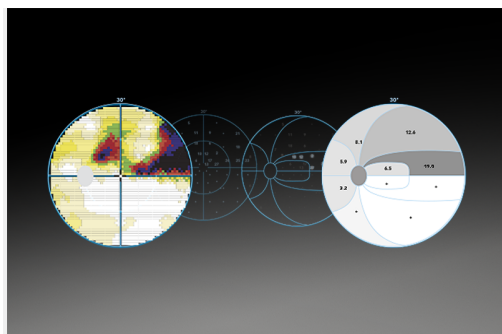


CLUSTER ANALYSIS/TREND

## Sensitive glaucoma analysis

The sensitive Cluster Analysis groups visual field defects along nerve fibre bundles and combines high sensitivity with good specificity to detect early glaucomatous changes. Significant defects are highlighted and the cluster defects can be used for structural comparison. Cluster Analysis is available in both single field and trend view.

Using single point analysis or global indexes to begin facial loss by glaucoma is not always easy. The cluster analysis supports the discovery of glaucomatous defects by clusters of facial defects along the nerve fiber bundles. The defects are indicated as cluster MD (mean defect) to highlight crucial pathological areas. The cluster analysis works with the local average. Locally limited damage due to an incipient glaucoma is therefore more likely than with the global index mean defect (MD). Nevertheless, it is subject to less fluctuation than the individual test points.

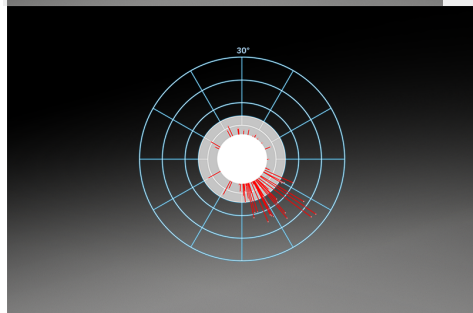
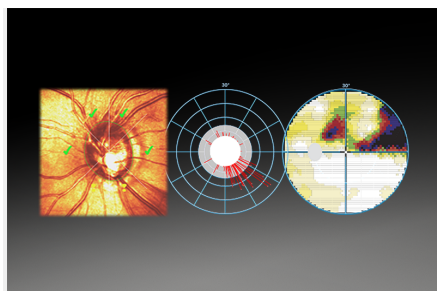


Glaucomatous progression is often slow and influenced by fluctuation. Why not let Cluster Trend be your guide in assessing change ? It displays change in dB/year for each visual cluster and uses intuitive graphical symbols to highlight change. Red downward-pointing arrows show deteriorating, green upward-pointing arrows show improvement and yellow diamonds show fluctuation at both at 1% and 5% significance level. This allows you to identify glaucomatous change at a glance.

## POLAR ANALYSIS/TREND

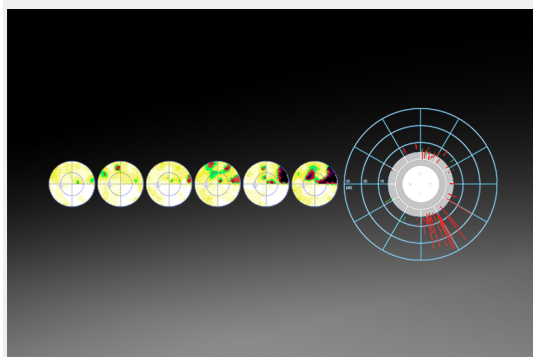
# For intuitive structural comparison

Combining the results of both structure and function is key to obtaining a comprehensive assessment of the onset and progression of glaucoma. The Octopus Polar Analysis projects local visual field defects along the nerve fibers to the optic disk and displays them oriented as structural results. This makes structure-function correlation almost intuitive. Polar Analysis is available in both single field and trend view.



With Polar Analysis, the nerve fibre bundles that are in danger or defective are easily identified. Local defects are projected along the nerve fibres to the optic disk and are represented as red lines. The projected defects are vertically mirrored to look like a structural result and are scaled with rings for 10, 20 and 30 dB deviation.

Do you see glaucomatous progression in your structural results? Then consult Polar Trend to see whether you can find matching visual field deterioration. Polar Trend is based on the Polar Analysis.

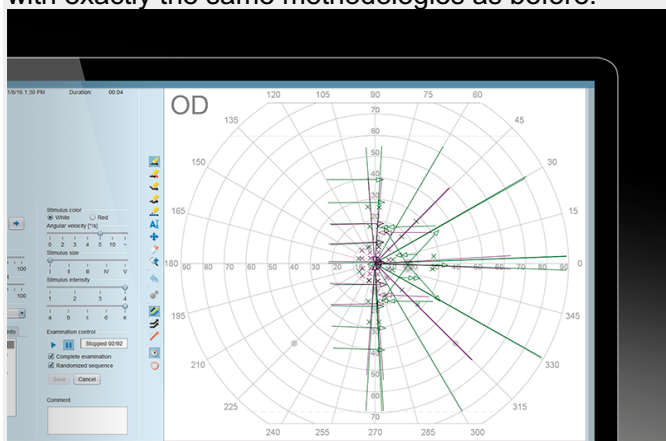




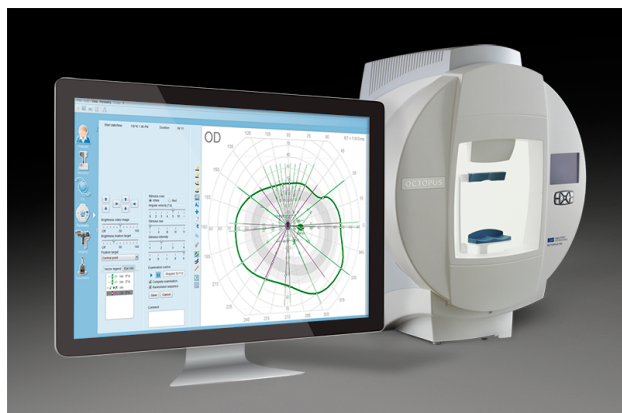


The Octopus 900 semi-automated kinetic perimetry retains all the original characteristics and specifications of a manual Goldmann perimeter. This allows for a smooth transition. Enjoy the same Goldmann stimulus sizes, I to V, and the same stimulus intensities, 1a to 4e, as you are used to. The design is also comparable. An original Goldmann bowl with a radius of 30 cm in all directions is used to project stimuli onto the Goldmann background intensity.

Place vectors anywhere and in any direction you want in either a semi-automatic or free-hand mode. Static points are also possible and isopters can be defined manually or in automatic mode if the isopter is regularly shaped. Equipped with all these possibilities, you can keep testing your patients with exactly the same methodologies as before.





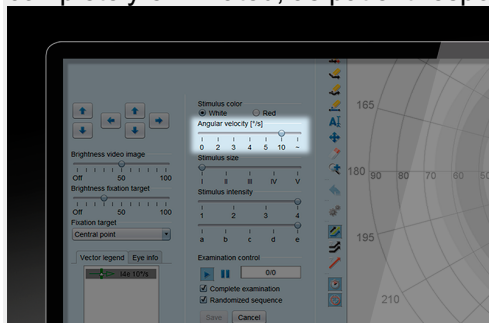


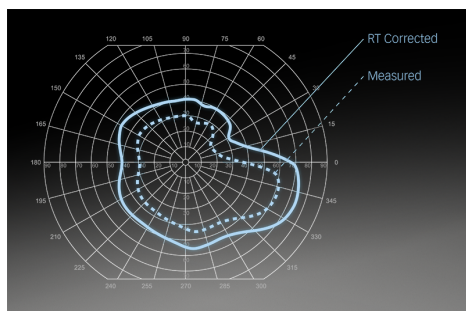
SEMI-AUTOMATED KINETIC PERIMETRY

## Simplified and more consistent operation

Benefit from the flexibility of a manual Goldmann but enjoy simplified and more consistent operation. Vector speed is now controlled and thus repeatable; the influence of both operator and patient reaction time is mostly eliminated and normal isopters provide guidance. And why not translate your standard clinical testing protocol into a template for all your patients that you can still adapt depending on the pathology?

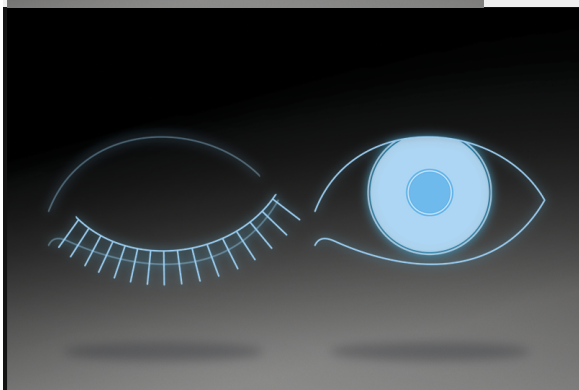
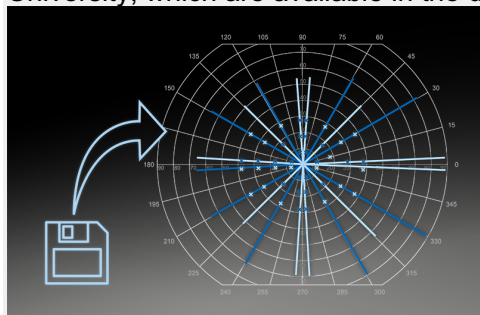
Choose a fixed vector speed and standardise your testing for more consistent results. In addition, variability due to operator reaction time is completely eliminated, as patient responses are immediately marked by pressing the response button.





Patient reaction time adds variability to a kinetic examination, especially in patients with inconsistent reaction time between sessions. Octopus perimeters therefore allow you to measure patient reaction time by presenting stimuli in the patient's visible area and to compensate for it.

Standardise your clinical workflow without losing the flexibility to adapt to individual situations. Translate your kinetic testing protocols into a template and use that template for a standardised testing methodology independent of the operator. Then, depending on the pathology and patient response, adapt the template by adding and deleting vectors during the test. Or take advantage of templates developed by Dr. Fiona Rowe, PhD, from Liverpool University, which are available in the download section.



FIXATION CONTROL

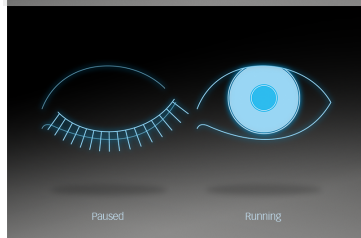
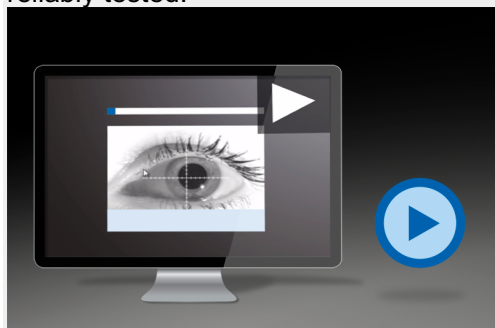
# Perimetry you can trust

Enjoy the reliability of Octopus perimeters, for example with Octopus Fixation Control which automatically eliminates fixation losses from your visual field testing.

FIXATION CONTROL

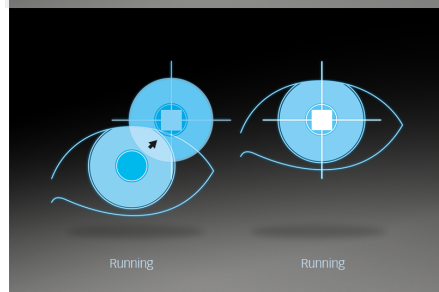
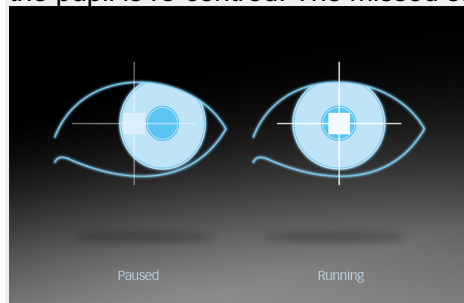
## Automatically eliminate fixation losses

Fixation losses due to low patient compliance are a major cause of unreliable visual fields. But you needn't worry any more. Fixation Control interrupts testing, when there is fixation loss, and automatically restarts, when the patient is properly fixating again. This ensures that each visual field point is reliably tested.



Normal blinking prevents dry eyes and helps the patient to relax and concentrate during examination. With Octopus Blink Control, you need never worry again about missing a stimulus presented in static perimetry. Stimuli interrupted by the patient's blinking are automatically repeated later during the test. This means that every test location is reliably tested.

Maintaining the correct pupil position during examination is essential for correct identification of the location of a defect. If the pupil position changes during stimulus presentation, due either to shifting of the head or eye movement, the Pupil Position Control automatically pauses the examination until the pupil is re-centred. The missed stimulus is automatically repeated later during the test. The result is a visual field that you can trust.



Positioning the pupil in the centre of the trial lens is essential for preventing lens rim and anatomical artefacts. Automated Eye Tracking recognises the position of the pupil and keeps the pupil centred by automatically moving the head and chin rest into the ideal position. Thus, the Octopus 900 provides optimum conditions for reliable and instantaneous results.



EYESUITE

# Easy integration in your practice workflow

The EyeSuite software has been designed for optimum patient flow in busy practices. It controls all Haag-Streit devices and allows for them to be networked with other Haag-Streit devices, your office computer and your EMR system without the need for any expensive third-party software.

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