

InFocus

HAAG-STREIT GROUP NEWS

Spring 2024

Your round-up of all the latest news from Haag-Streit Group



Welcome to your new-look "InFocus" newsletter, with all the latest news from the Haag-Streit Group.

Hot off the press: the release of the Imaging Module 910 3D (IM 910 3D). Offering an immersive perception of the slit lamp exam, the IM 910 3D conveys what's happening in the oculars on a digital 3D screen, delivering a more collaborative, efficient, and comfortable learning experience.

Next: the release of the new Eyesi Indirect Ophthalmoscope ROP Simulator (Eyesi Indirect ROP). Read on to learn how this mixed reality simulator for training of retinal examinations on preterm infants and classification of retinopathy of prematurity (ROP) is changing the landscape of ROP training.

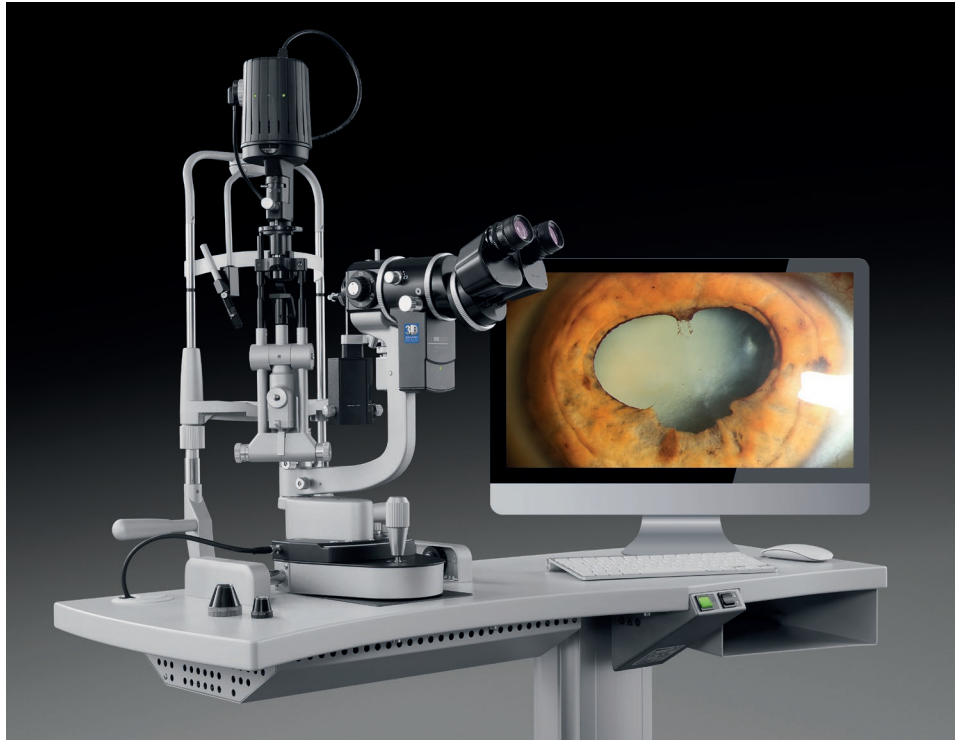
In perimetry news, we share details of a new translucent occluder for the Octopus 600. Finally: for all you slit lamp enthusiasts – don't forget that our "Slit Lamp Imaging Competition" is back for 2024!

I hope you enjoy reading this issue. Thank you, as always, for your valued custom and support.

**Sharon Mills, Head of Brand,
Marcoms & Campaigns, Haag-Streit Group**

Haag-Streit launches Imaging Module 910 3D

Benefit from an immersive 3D perception of the slit lamp exam with the Imaging Module 910 3D (IM 910 3D).



The Imaging Module 910 3D (IM 910 3D) presents an immersive 3D perception of the slit lamp exam

Innovating the field of slit lamp imaging

If you have been following us on social media, then you would have seen that we recently launched an exciting new slit lamp imaging solution – the IM 910 3D – which enhances the capabilities of the IM 910 with a dynamic 3D live-stream, allowing you to enjoy an immersive 3D perception of the slit lamp exam.

You are probably already familiar with the IM 910, an integrated compact imaging solution for the BQ 900 slit lamp that provides smart imaging and an integrated workflow – which simplifies and accelerates the process of producing expressive and conclusive images at the touch of a



Look for the "3D Imaging Ready" sticker

button. It also provides a high-resolution video stream, enabling the documentation of images and videos. These images could only be documented in 2D... until now.

Three dimensions, three great benefits

Why 3D? How does it work?

Clinicians have become accustomed to recording slit lamp images in 2D. However, “flat” images lack the capability to convey depth information, limiting the comprehensive visualization of the subject matter. The IM 910 3D enables the recording of 3D content, including both images and videos, which render a more authentic representation of the slit lamp examination.

Two 4K cameras capture two images simultaneously: one per eye in ultra-high-definition – the result: an immersive depth impression, unveiling more detail, and a richer viewing experience. The benefits – summarised below – are wide-ranging, with practical applications for clinicians, teachers of ophthalmology, and teleconsultants in approved markets*.

Superior documentation

With the IM 910 3D, the inclusion of depth information in the visual representation makes the perception of anatomical relationships easier to identify. This serves to enhance the overall clarity and interpretability of the observed content.

Moreover, the comprehensive capture capabilities of the slit lamp place a wealth of material at the clinicians’ fingertips, supporting them with more efficient case reviews, quicker follow-ups, and the ability to form competent expert opinions.



The IM 910 3D enhances the learning experience

Optimizing teaching time

As well as providing superior documentation, the IM 910 3D promotes a more collaborative and efficient learning experience. For example: by providing a digital 3D visualization of the slit lamp exam, co-observers no longer need to adopt an uncomfortable posture such as hunching into the tube to closely track slit lamp movements, enhancing the overall experience.

Moreover, in many instances, 2D solutions sometimes fail to accurately convey the visual information intended for the co-observer. This creates a challenge for the examiner in ensuring that the resident



The IM 910 3D enables superior documentation of both images & videos

accurately observes the relevant details when operating the slit lamp. With the IM 910 3D, the co-observer has the same view on the monitor that the examiner does through the oculars. This gives the examiner confidence that the resident has observed the relevant details, without having to observe the patient twice.

As a fully digital solution, the ability to convey what is happening in the oculars on a digital 3D screen allows multiple residents to participate in the exam, optimizing teaching time.

Supporting teleconsultations in eye health care

The IM 910 3D also facilitates new ways of working for approved markets. Remote clinical services, or teleconsultation, whether performed synchronously or asynchronously, has emerged as a significant component of eye health service delivery, especially in the wake of the recent coronavirus healthcare crisis.



The IM 910 3D supports remote clinical services (available in the USA only)

The IM 910 3D fully supports remote clinical services*, facilitating the virtual consultation between patient and health care provider. This can be performed as a screening tool for new patients prior to an in-person visit, or for a pre-op visit prior to a scheduled surgery, or simply provides

extra convenience and comfort for those who are physically unable to attend the eye clinic.

The transmission of the immersive 3D perception of the slit lamp examination provides the teleconsultant with the same impression as the examining clinician.

“The IM 910 already allows clinicians to take expressive & conclusive images at the touch of a button.

Now with 3D-ready functionality, the IM 910 is not just a slit lamp camera – it’s a platform on which we continue to innovate within the field of slit lamp imaging.”

Frank Wenger, Head of Product Management General Diagnostics

Want to learn more?

Visit our [website](#) to access detailed information about the IM 910 3D, including brochures, videos, and technical documents.

Ready to see it for yourself? [Contact your Area Sales Manager](#) for a demonstration. Finally, don’t miss this opportunity to follow us on [LinkedIn](#), [Facebook](#), and [X](#) where we will be sharing more exciting news about the IM 910 3D, including case studies by industry leaders.

*Available in the USA only, not available in the EU

Haag-Streit launches Eyesi Indirect ROP Simulator

New mixed-reality simulator empowers trainees to gain proficiency in the highly challenging ROP screening examination – without risk to patients.



The Eyesi Indirect Ophthalmoscope ROP Simulator is a mixed-reality simulator that offers a highly immersive training environment

Last month, we shared the exciting news that the Eyesi Indirect Ophthalmoscope ROP Simulator (Eyesi Indirect ROP) had officially launched. Now, let us take this opportunity to explain the significance of this product, and its benefits for trainees and educators.

What is ROP?

Retinopathy of prematurity (ROP) is one of the leading causes of serious visual impairment in premature infants, including blindness. With early diagnosis, severe structural malformations can be prevented. Yet, performing a retinal examination on a premature infant is challenging and must be carried out quickly and skilfully due to the baby's lack of cooperation.



Real-time simulation

Until now, trainees have learned to perform the examination on the infant patient; the experienced doctor screens the infant first, and then the assistant doctor repeats the examination.

This stressful situation can lead to a reduced heart rhythm and additional stress release for the already weak infant. Haag-Streit's recently launched high-fidelity training system allows trainees to practice device handling, with an embedded, didactically structured simulator curriculum to teach the diagnostic skills required for correct ROP classification.

Close-to-life training environment

The [Eyesi Indirect ROP](#) is a mixed-reality simulator that offers a highly immersive training environment for proper device handling. The simulator resembles every relevant aspect of the real examination scenario. It consists of a head-mounted stereo display representing an ophthalmoscope, a patient model head with pliable eyes, and mimics of lenses and a scleral depressor.

The user is presented with an immersive 3D simulation of the patient; the indirect ophthalmoscope mimic, the handheld lens, and the patient's eye must be aligned precisely to visualize the retina. The rubber eyes can be indented and tilted into different directions using the scleral depressor to add to an immersive, close-to-life environment. The effect of the manipulation is simulated in real-time.

“By bridging the gap between theory & practice, the Eyesi Indirect ROP empowers residents to gain proficiency in this highly-skilled exam in a risk-free environment.”

**Manuela Sutter-Meler,
Director, Market & Product
Application Manager Team
& Sales Simulation**

Standardized curriculum

The Eyesi Indirect ROP offers a standardized curriculum featuring virtual patients with different stages of retinopathy, including aggressive ROP, plus disease and retinal detachment, thereby ensuring that each trainee has been educated on the same range of pathologies. The simulator curriculum teaches the main characteristics of ROP and how to recognize the different zones and stages according to the “International Classification of Acute Stages of Retinopathy of Prematurity.” Trainees also become acquainted with their specific country's guidelines for screening intervals and treatment of ROP. Online courses for self-guided learning provide medical background and complement the practical training on the simulator.

Objective assessment

The Eyesi Indirect ROP provides trainees and educators with a detailed assessment of examination and classification skills. Evaluated parameters are, for example, the light exposure, completeness of the retinal area examined, completeness and correctness of findings, appropriate use of indentation, or examination time.



Interactive training environment

With the combination of a standardized curriculum and computer-based evaluation, the training system can ensure that each trainee reaches a standard performance level.

Learn more

Visit our [website](#) for detailed information about the [Eyesi Indirect ROP](#) – and make sure to follow Haag-Streit Simulation's [LinkedIn](#) social media channel for the latest news and studies. Ready for a demonstration? Please contact your [Area Sales Manager](#). ■

“Slit Lamp Imaging Competition 2024” returns with new video category

We are delighted to announce that the “Slit Lamp Imaging Competition 2024” (#SLIC2024) is open for entries. Enter by August 9 for your chance to win.

"Slit Lamp Imaging Competition 2024"

Image & video categories

Now in its **6th** year

100s of entries year-on-year

Previous entries from 18 countries worldwide

4 prestigious judges

3 great prizes

The Haag-Streit “Slit Lamp Imaging Competition” attracts a global audience of imaging enthusiasts

Are you an ophthalmic imaging professional with an eye for capturing quality images or video? Don't miss your chance to enter Haag-Streit's “Slit Lamp Imaging Competition 2024.” Now in its sixth year, the competition empowers eyecare professionals to showcase their imaging skills and submit outstanding slit lamp images and videos.

New for 2024: video

Haag-Streit slit lamps are well-known for their outstanding image quality – but did you know that you can also capture high-quality video during your examinations, too? For the first time, we're inviting contestants to submit up to two short videos taken on slit lamps for the scrutiny of the jury.

Who won last time?



Last year's winner, Pia Emilia Lohri (left) from Lucerne Cantonal Hospital, Switzerland, is awarded her trophy & certificate

Ten outstanding images made last year's shortlist, with Pia Emilia Lohri from Lucerne Cantonal Hospital, Switzerland, named [overall winner](#) of the 2023

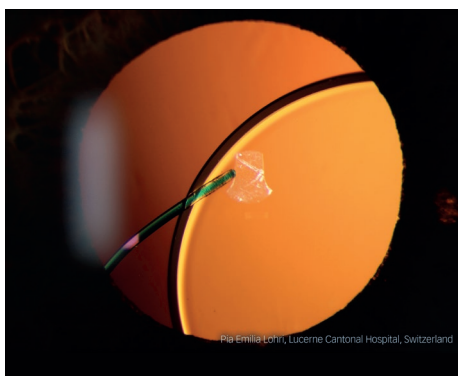
competition. Second place was awarded to Yang Zhang, of Beijing Tongren Hospital, China, while Katie Lachut-Yevich from VCU Health System, USA, achieved third place. All winning images were taken on a Haag-Streit [BX 900](#) slit lamp.

Expose your work to a broad audience

Since its inception, the competition has grown in popularity, receiving hundreds of entries year-on-year. In 2023 alone, Haag-Streit received over 350 entries from over 18 countries, with representation from across Europe, the USA, China, Australia, India, Israel and UEA, to name just a few.

Gain industry recognition

All entries undergo rigorous scrutiny from our panel of prestigious judges. This year, our panel once again features imaging professionals Marc Curchod and Jesús Conejero alongside Haag-Streit's Frank Wenger and Jacqui Kenyon. Read more about the judges [here](#).



SLIC 2023: Pia's stunning first-placed image featured a dislocated intraocular lens

Win fantastic prizes

As always, Haag-Streit is offering a host of fantastic prizes to the winners. In addition to the prizes below, the first-placed winner of the imaging category will have their work featured in an ophthalmic journal.

- **First place winner (imaging)**
Sony Alpha 7CII 28-60mm Kit
- **First place winner (video)**
Sony Alpha 7CII 28-60mm Kit
- **Second prize (imaging)**
iPad 12 Pro 11
- **Third prize (imaging)**
Peak Design camera backpack.

The competition timeline

Here are the key dates for your diary:



Enter by October 7 for your chance to win fantastic prizes

Competition opens: April 8, 2024

The competition has been in full swing for over eight weeks, and already, we are delighted to see quality submissions coming in! Visit our [website](#) for full guidance on how to get your files competition-ready.

Competition closes: August 9, 2024

After the closing date later this summer, our [judging panel](#) will shortlist the best images and videos overall, creating a shortlist of finalists.

Winners announced: October 7, 2024

The big announcement! We will announce the overall winners and shortlisted submissions. Keep your eye on our social media channels to be first to the news.

How to enter

For full information, including participation terms, please visit our [competition page](#). Need ideas from previous winners? Check out our [wallpaper page](#). And for entry tips, inspiration, and competition updates, make sure to follow us on [LinkedIn](#), [X](#), and [Facebook](#). Good luck! We look forward to receiving your entry. ■

Introducing the new translucent occluder for the Octopus 600 perimeter

The need for correct head fixation can lengthen the perimetry examination significantly - while also being uncomfortable for the patient. Our answer? The new translucent occluder for the Octopus 600.



The new translucent occluder eliminates the need for an eye patch when using the [Octopus 600](#). Now included as standard with every new Octopus 600 perimetry device – and as a simple add-on for existing users – this small component has big benefits:

Faster patient setup

Correct positioning of the eye patch can contribute to lengthy patient setup procedures. The simple magnetic snap-on technology streamlines this process, enabling faster patient setup and efficient switching for second-eye testing. This not only saves valuable time but also minimizes the risk of errors that may arise from improperly positioned eye patches. The occluder, secured in place with magnetic force, ensures reliable coverage of the visual field throughout the examination.

Time-savings

The new occluder doesn't come into direct contact with the patient, which greatly reduces the danger of cross contamination and makes cleaning before every use unnecessary – which significantly saves time and reduces risk. After use, conveniently store the occluder in the lens compartment integrated into the device.

Increased patient comfort

The translucent occluder snaps easily onto the Octopus 600, eliminating the need for head fixation. This results in a significantly more comfortable examination experience for the patient.

Furthermore, it reduces the brightness difference between the occluded and the examined eye. Following Bolanowski et al ^[1], the Troxler effect ^[2] is avoided if the luminance difference between the eyes is less than 7.5dB. With the new translucent occluder, the luminance difference between the eye is only 3.5dB – where observers confirm that they no longer experience the typical Troxler “blankout”.



Similar brightness between the examined & the occluded eye

Environmentally friendly

Intense handling and the need for regular disinfection can cause eye patches to wear out over time. In contrast, with its no-contact design and robust materials, the translucent occluder is expected to have a significantly longer shelf life.

Good to know

- Every new Octopus 600 perimetry device now comes equipped with both the standard eye patch and the new translucent occluder for maximum flexibility
- New users of the Octopus 600 will receive the new occluder as standard
- Existing users of the Octopus 600 may order this new component as a standalone item. Please contact your [Area Sales Manager](#).

Read more about the Octopus 600 central field static perimeter at our website [here](#).

References:

- [1] [PubMed](#)
- [2] [Encyclopedia of Clinical Neuropsychology](#)