Precision, Progress, and the Power of Three

Haag-Streit celebrates a "Year of Innovation" with three devices adhering to one vision – to support eye care professionals on their journey to improve vision with innovative, efficient, and sustainable solutions

For more than 165 years, Haag-Streit has stood as a benchmark of optical precision, ergonomics, and clinical reliability. Over the last 12 months, that legacy took a bold step forward with three landmark product launches that redefine how ophthalmologists visualize, examine, and treat the eye – confirming 2025 as Haag-Streit's "Year of Innovation." From the clinic to the OR: the Elara 900, Refractor 900, and METIS 900 embody Haag-Streit's enduring commitment to innovation rooted in practicality – enabling clinicians to work with greater control, comfort, and confidence.

The Elara 900 slit lamp

Elara 900: The Slit Lamp for the 21st Century

Elara is THE slit lamp built for the 21st century. It transforms the familiar into something revolutionary, combining the analog optical excellence clinicians trust with the digital intelligence they now expect.

Elara's optical system fuses critical imaging elements into a single, optimized design, powered by Haag-Streit's renowned Swiss-made optics. The result: crisp visualization across every ocular structure, enhanced by the "P-Type" illumination system and dual integrated 3D* cameras capable of 4K capture.

What truly sets Elara apart, however, is its digital "preset" wheel – a subtle yet game-changing innovation. Multiple manual adjustments, such as slit width, filter selection, or illumination intensity, can now be recalled with a single scroll or button press. These programmable examination scenarios dramatically reduce transition time between steps, letting ophthalmologists concentrate on their patients rather than their instruments.

In the modern clinic, ergonomics isn't a luxury – it's a necessity. The inclined oculars promote natural posture, while the motorized height adjustment reduces repetitive movements. Every control – from the multi-purpose joystick to the intuitive touchscreen display – is designed for comfort and accessibility. Patients, too, benefit from a spacious, adjustable headrest that supports a wide range of body types, creating a more inclusive and comfortable examination experience.

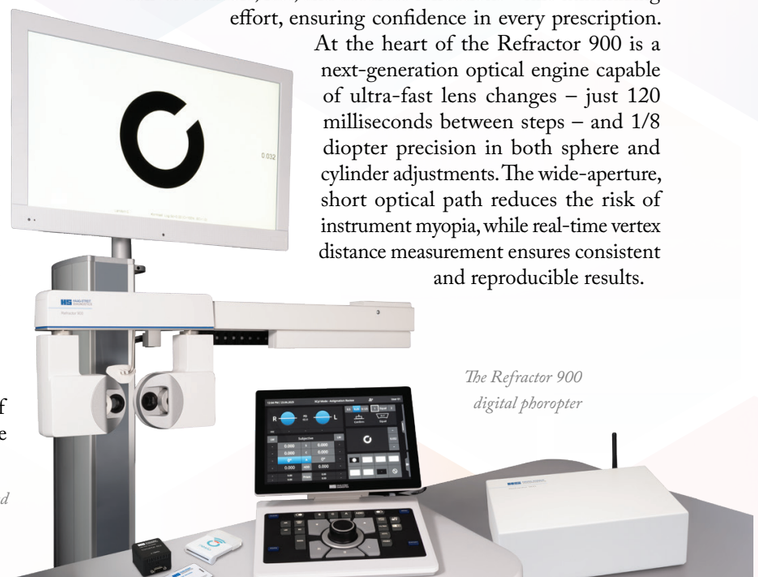
*3D license required

A testament to Haag-Streit's continuous reinvention, the Elara 900 seamlessly combines analog and digital worlds – offering clinicians a device that enables them to see more, work smarter, and feel better.

Refractor 900: Technology You Trust, Design That Delivers

Joining Haag-Streit's innovation trilogy is the Refractor 900, a digital phoropter that brings refraction firmly into the connected age. Built for reliability, comfort, and seamless integration, it delivers reliable, fast, and accurate refractions while minimizing effort, ensuring confidence in every prescription.

At the heart of the Refractor 900 is a next-generation optical engine capable of ultra-fast lens changes – just 120 milliseconds between steps – and 1/8 diopter precision in both sphere and cylinder adjustments. The wide-aperture, short optical path reduces the risk of instrument myopia, while real-time vertex distance measurement ensures consistent and reproducible results.



The Refractor 900 digital phoropter

Beyond its robust mechanics, the Refractor 900 offers a compact, slim design focused on user ergonomics and patient comfort. Its motorized controls, intuitive touchscreen, and quiet, near-silent motors create a calm environment for both patient and clinician. With customizable test sequences and an ergonomic button layout, every refraction feels faster, smoother, and more precise.

What truly elevates the Refractor 900 is its frictionless digital ecosystem. One-button EMR integration, NFC card data transfer, and automatic compatibility with other diagnostic devices streamline workflow and minimize data entry errors. The optional Converter Box bridges older systems, ensuring that clinics of all sizes can transition effortlessly to digital refraction.

Together, these features represent Haag-Streit's commitment to connectivity without compromise – ensuring that the modern eye exam is as efficient and precise as it is patient-focused.

METIS 900: The Surgical Control Center

Completing the power of three: the new METIS 900 ophthalmic microscope system. With this innovation, Haag-Streit has reimagined optical control – combining a century of precision craftsmanship with the ergonomic intelligence of the modern operating room.

At its heart lies a brilliant, homogenous red reflex – stable, bright, and perfectly balanced even at low light levels. Haag-Streit's optimized coaxial illumination and legendary optics together create superior clarity and color reproduction, while reducing intraocular light toxicity. "It's not just another iteration," says Dr. Yuri McKee, East Valley Ophthalmology, Mesa, AZ, USA, the first surgeon to use METIS in live procedures. "It's a completely new platform – one that lets me work with control, comfort, and confidence."

Long procedures can take a toll on the surgeon's posture and focus. METIS addresses this head-on with a motorized tilt and inclined oculars that encourage a natural, upright posture. Surgeons can reposition or tilt the binoculars effortlessly to maintain a smooth, sterile workflow throughout MIGS or cataract surgery.

The microscope's smart design ensures freedom of movement and comfort without compromising on control. Motorized features, activated by a touch of the hand switch, replace cumbersome knobs, while the foot switch offers wireless control of up to 14 functions. Users can tilt, zoom, or focus with minimal distraction – maximizing productivity and precision.

METIS also answers the growing demand for high-definition imaging in surgery. Its integrated high-definition 4K recording system optionally allows for real-time collaboration and detailed post-operative case review, while the LED illumination ensures vivid brightness with lower heat output and reduced energy use – taking surgeons a step closer to a greener OR.

Following a successful pilot phase across Germany, the USA, and the Netherlands, METIS has proven its capability across anterior and posterior segment procedures, delivering on its promise of precision, ergonomics, and digital adaptability – and providing a customer-centric, digital platform that is built for the data-driven OR of the future.

The Future in Focus

For Haag-Streit, 2025 isn't simply another year in the company's long history – it's a defining moment. The Elara 900, Refractor 900, and METIS 900 each reflect a different facet of the company's innovation ethos. From the first eye examination to surgery, Haag-Streit is building technology that responds to the realities of modern ophthalmology.

The METIS 900 ophthalmic microscope system

Discover more at the Haag-Streit website

Scan the QR code to read more about these three innovations.