

# METIS HU BRINGS HEADS-UP 3D VISUALIZATION TO THE METIS 900 MICROSCOPE

AN INTEGRATED 3D 4K VISUALIZATION MODULE AIMS TO SHARPEN PRECISION, POSTURE & TEACHING.

Sponsored by **Haag-Streit**

In ophthalmic surgery, visualization is everything. The catch is that the best view has traditionally come with a tradeoff: hours at the oculars, shoulders forward, neck angled, and a surgical field only one person can truly see at a time. Heads-up 3D visualization is changing that dynamic by moving the surgeon's perspective to a shared screen, bringing the team into the same visual plane while supporting a more natural posture.

segment surgeons. Incorporating advanced 3D 4K camera technology, METIS HU combines a 55-inch 3D 4K monitor with a compact floor stand to maximize your working space. By replacing traditional eyepieces with a heads-up view, you benefit from better visualization, improved workflow, lower illumination, and enhanced teaching opportunities.

Whether you already own a METIS 900 ophthalmic microscope or are considering

image resolution, combined with a large 3D display, delivers a greater depth-of-field, together with a 3D stereo 4K camera that can constantly adapt to light conditions. The result is enhanced vision that facilitates a more accurate manipulation of delicate intraocular structures.

## IMPROVED ERGONOMICS

Haag-Streit has been an innovator in surgical ergonomics for decades, and METIS HU is the latest iteration in this legacy. Benefit from an upright sitting position and a compact design that provides a clear view of the screen without excessive sideways head tilting.

Together, these features can reduce the neck and back strain that can result when using traditional oculars for lengthy procedures.

“The METIS HU has wonderful image clarity that is as good as a regular light path microscope. There is no significant image lag,” said Dr. Edward Meier (United States) of Apex Eye in Cincinnati, Ohio. “One of the best things is that you can use digital illumination to brighten the image while using a much dimmer microscope light. This is much more comfortable for the patient while still delivering an excellent view and red reflex. As a purpose-built, heads-up scope, the ergonomics are fantastic. At the end of a long day, my neck & back are much less tired than when using a traditional microscope.”

## WORK THE WAY YOU WANT

You don't need to dispense with the ocular setup altogether because METIS HU gives you the freedom to choose.



Haag-Streit's (Köniz, Switzerland) answer is the METIS 3D Digital Heads-Up Module (METIS HU). METIS HU expands the trusted METIS 900 ophthalmic microscope with an integrated digital 3D visualization platform, designed to deliver a state-of-the-art solution for an enhanced surgical experience.

digital visualization for the first time, METIS HU offers a flexible configuration and convenient ocular conversion process, giving you the freedom to work how you want.

It's your METIS HU, and your pathway to enhanced surgical performance.

## ENHANCED SURGICAL PERFORMANCE

METIS HU is designed to meet the needs of progressive anterior and posterior

## DETAILED VISION, BETTER DECISIONS

METIS HU supports ophthalmic surgery with stunning detail and clarity. The high

Take full advantage of digital visualization when desired, or work with the ocular setup when it's needed. With a convenient conversion process, you're in full control with METIS HU.

## WORKFLOW & EASE OF USE

When using METIS HU, surgeons can draw on the efficient workflows embedded into the METIS 900 microscope to support productivity during procedures. 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.

For even greater efficiency, any digital function can be mapped to the foot or hand switch for customization and ease of use.

## INTEGRATED DIGITAL FEATURES

METIS HU incorporates digital features designed to support workflow efficiency. Whether adjusting the settings mid-case or pulling up on-screen guidance, these tools are designed to stay within reach with a single, sterile touch.

The METIS HU also includes a digital quick zoom that can reveal fine detail with a tap of the foot, along with image inversion without the need for separate system add-ons.

## INCREASED PATIENT COMFORT

METIS HU technology is designed to support work at lower light levels compared with an analog microscope setup. As a result, patients may benefit from lower light toxicity and greater comfort during procedures.

At the same time, the system is intended to maintain accurate color representation and true-to-life visuals to support effective surgery.

## TRANSFORM TEACHING & COLLABORATION

METIS HU is designed to support an immersive learning environment, where assistants, trainees, and other OR personnel can observe surgical procedures exactly as the surgeon does on a large 3D monitor. High-quality 3D videos and images can

be captured during surgery with a touch of the hand switch or a tap of the foot, then shared for analysis and review.

Multiple 3D monitors can also be linked in a teaching environment, allowing remote observation in real time. In practice, that shared view can turn live cases into teachable moments rather than post-op explanations.

“Screen-based surgery with METIS HU is simply a delight, whether in the anterior segment, posterior segment, or with combined surgery,” said Dr. Christopher Riemann (United States) of the Cincinnati Eye Institute. “The resolution is superb and the unique feature of being able to actively adjust the camera settings intraoperatively



provides a level of control that surgeons will love. We can't fix what we can't see and with METIS HU, we can see beautifully.”

## YOUR DIGITAL DASHBOARD

METIS HU can be controlled and personalized from the microscope's 27-inch touchscreen display, including setups for multiple users. Designed with surgeons and their teams in mind, the system interfaces with the Microscope Imaging & Operation System (MIOS), which is a single user interface with interactive menus designed to guide surgical workflow.

From customizing monitor settings and surgeon profiles to recording and sharing patient data, these functions are brought together within one central point of control.

## DON'T MISS A DETAIL

METIS HU is designed to deliver high-quality 3D visualization. With advanced digital processing, color, contrast, and brightness are continually optimized to produce a clear, natural image. Surgeons can select from various filters, such as “red-free,” to enhance contrast and improve visibility of retinal structures.

Combined, these features are intended to support better visualization that can aid efficiency and safety across a range of operating scenarios.

## A PATHWAY, NOT A LEAP

As heads-up viewing becomes more common across ophthalmic subspecialties, the focus shifts from whether digital

visualization belongs in the OR to how it fits into a surgeon's existing workflow.

For surgeons who are heads-up curious, METIS HU is designed to bring a digital 3D workflow into the METIS 900 ecosystem while preserving the option to revert to oculars, which may make adoption feel like a controlled transition rather than a point of no return.

For more information, visit the METIS HU page.

**Availability of the METIS 3D Digital Heads-Up Module may vary by region. Please contact your local Haag-Streit distributor for details.**

## Editor's Note

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