



METIS 3D DIGITAL HEADS-UP MODULE

Your surgical cockpit

Look closer. See further.

HS HAAG-STREIT
SURGICAL

METIS 3D DIGITAL HEADS-UP MODULE

Enhance your surgical experience

Elevate your surgical capabilities with the new METIS 3D Digital Heads-Up Module (METIS HU) from Haag-Streit. METIS HU expands our trusted METIS 900 ophthalmic microscope with an integrated digital 3D visualization platform. The result: a state-of-the-art solution for an enhanced surgical experience.

METIS HU is designed to support the needs of progressive anterior and posterior segment surgeons. Incorporating advanced 3D 4K camera technology, METIS HU combines a 55" 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 digital visualization for the first time: with a flexible configuration and convenient ocular conversion process, METIS HU gives you the freedom to work how you want.

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

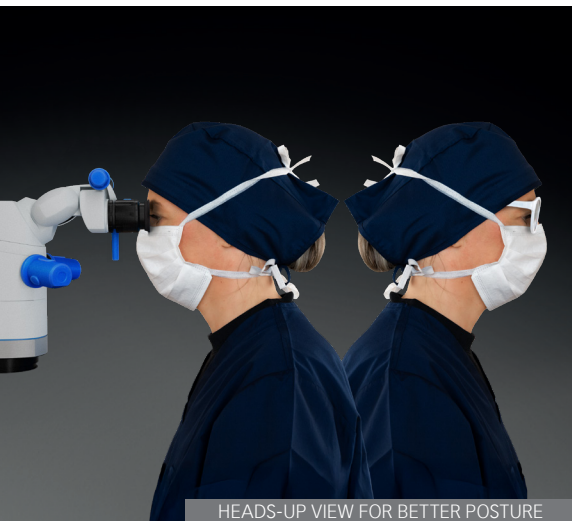




DETAILED VISION, BETTER DECISIONS

Enhance your surgical view

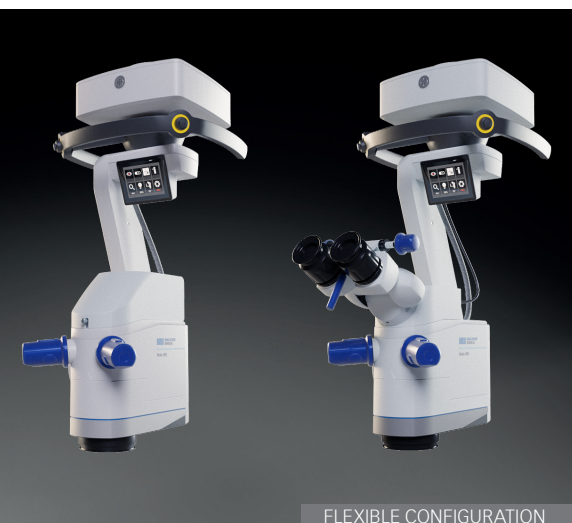
METIS HU supports ophthalmic surgery with stunning detail and clarity. The high image resolution, combined with a large 3D display, delivers a greater depth-of-field, together with a 3D stereo 4K camera that can constantly adapt to light conditions. The result: enhanced vision facilitating more accurate manipulation of delicate intraocular structures.



HEADS-UP VIEW FOR BETTER POSTURE

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 allows for a clear view of the screen without requiring excessive sideways head tilting. Together, these features can reduce the neck and back strain that can result when using traditional oculars for lengthy procedures.



FLEXIBLE CONFIGURATION

Work the way you want

Don't want to dispense with the ocular setup altogether? No problem. METIS HU gives you the freedom to choose. 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.

PROGRAMMABLE FOOT & HAND SWITCHES

Workflow & ease of use

When using METIS HU, benefit from all the efficient workflows embedded into the METIS 900 microscope and bring greater productivity to your 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, map any digital function to the foot or hand switch for greater customization and ease of use.



PROGRAMMABLE FOOT & HAND SWITCHES

QUICK ZOOM & IMAGE INVERSION

Integrated digital features

METIS HU incorporates powerful digital features that boost your workflow efficiency. Whether monitoring your individual configuration, adapting your settings, or navigating to on-screen help menus; do this and more with a single, sterile touch. Enjoy the digital quick zoom that instantly reveals high details with the tap of your foot, and switch to image inversion without the need for separate system add-ons.

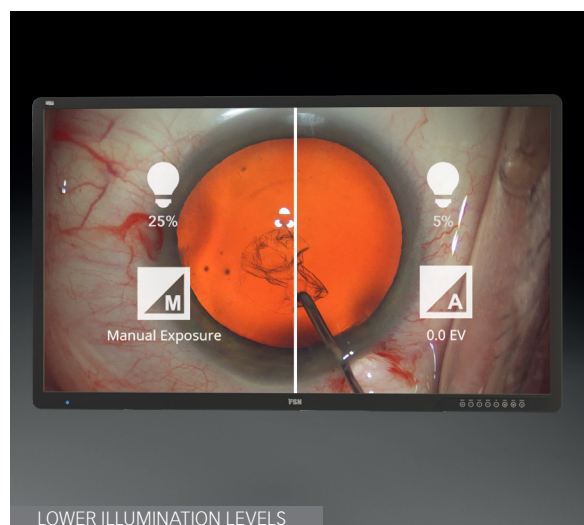


QUICK ZOOM & IMAGE INVERSION

LOWER ILLUMINATION LEVELS

Increased patient comfort

METIS HU technology enables you to work at lower light levels compared to an analog microscope setup. As a result, patients benefit from lower light toxicity – and can enjoy greater comfort during procedures. Simultaneously, you experience accurate color representation and true-to-life visuals for effective surgeries.



LOWER ILLUMINATION LEVELS



IMMERSIVE LEARNING ENVIRONMENT

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Transform teaching & collaboration

METIS HU creates an immersive learning environment where assistants, trainees, and other OR personnel can observe surgical procedures exactly as you do – on a large 3D monitor. Simultaneously capture high-quality, 3D videos and images as you work with a simple touch of the hand switch, or the tap of your foot, and easily share your findings with others for further analysis and review. Moreover, multiple 3D monitors can be linked in a teaching environment, allowing remote observation in real time.



TOUCHSCREEN DISPLAY

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Your digital dashboard

Control and personalize your METIS HU setup – and that of other users – from the convenience of the microscope's 27" touchscreen display. Designed with surgeons and their teams in mind, METIS HU interfaces with our Microscope Imaging & Operating System (MIOS) – a single user interface with interactive menus to guide your surgical workflow. From customizing your monitor settings and surgeon profiles to recording and sharing patient data: do it all from one central point of control.



DIGITAL RED-FREE FILTER

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Don't miss a detail

Realize spectacular 3D visualization with METIS HU. With advanced digital processing, your color, contrast, and brightness are continually optimized to deliver a clear, natural image. Seamlessly choose from various filters such as "red-free", enhancing contrast and visibility of retinal structures. Combined, you are equipped with better visualization to aid efficiency and safety in various operating scenarios.

METIS 3D DIGITAL HEADS-UP MODULE

Technical specifications

Display specifications

Type	FSN OLED 55-inch anti-glare panel
Resolution	3840 x 2160 pixels (4K UHD)
Response time	0.5 ms
Color gamut	BT.709, 1.07 billion colors
Dimensions/weight	1268.5 x 753.3 mm (panel), 29.8 kg
Brightness	400 nits
Contrast ratio	100,000:1
Connectivity	Display port 1.2
Input signals	4K/60Hz support
Digital filters	Yes
Digital image inversion	Yes

Trolley specifications

Dimensions	Adjustable height ~115-185 cm (monitor max) Base diameter 620 mm Width 540-560 mm Overall height 1521 mm
Weight (excluding monitor)	41.14 kg (base rack)
Wheels	125 mm diameter, conductive, with locking
Mount	Ergotron wall mount (low medium) for monitor
Additional parts	Push handle, cable winder, counterweight, column cover cap

Drawer specifications

Dimensions	450 mm width, 408.3 mm depth, 223.6 mm height
Weight	11.27 kg
Load capacity	Drawer 3 kg
Inner space	340 x 240 x 175 mm

Camera specifications

Resolution	2x 4K Ultra HD (3840 x 2160 pixels)
Image transmission	Real-time 3D video feed to the monitor via HDMI/DP
Sensor	Dual high-sensitivity sensors for stereo depth
Video recording	3D 4K (3840x2160 pixels), 60fps / 2D 4K (3840 x 2160 pixels), 60fps / Full HD (1920 x 1080 pixels), 30fps
Audio recording	Yes



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