



HS ALLEGRA 900

Enjoy the ease



Tradition and Innovation – Since 1858 visionary thinking and a fascination with technology have guided us to develop innovative products of outstanding reliability: Anticipating trends to improve quality of life.

 **HAAG-STREIT**
SURGICAL



02 | 03

HS ALLEGRA 900

Quick and precise operation

HS ALLEGRA 900 is optimized for surgical procedures in day clinics, surgical centers, and hospitals. It is mainly recommended to be used for ophthalmic, ENT, and reconstructive surgery.

With its electromagnetic brake, the microscope is exceptionally easy to move but stable in the working position. It is equipped with 1:6 zoom, X-Y coupling, inclinable eyepiece head, and 10x wide angle oculars. In ophthalmic surgery a red reflex enhancer provides ideal recognition of the capsula.



ABOUT HAAG-STREIT SURGICAL

X-Y coupling for soft lateral movements,
range 60 mm x 60 mm

M.DIS

Eyepiece head with
160° inclination angle

5 filters and 2 diaphragms
for individual light adjustment

HS MIOS 5

Choose halogen or
LED illumination

- » Best depth perception and 3D vision
- » The specialist for surgical centers
- » Integrated red reflex enhancer
- » High comfort due to the zoom optics,
electromagnetic brakes, and X-Y coupling

EF 5001

HS ALLEGRA 900
on floor stand FS 2-11 / FS 2-15





04 | 05

No compromises Fast and secure surgery

Apochromatic optics delivers perfect color fidelity, strong contrast, and high resolution. An industry leading 25 mm stereo base provides superior 3D depth perception.

A special advantage for multidisciplinary use is the large inclination range of -8° to $+100^\circ$, e.g. in ophthalmology and ENT – even laryngoscopy as well as ear examinations and surgeries are possible.

In addition to motorized focusing the HS ALLEGRA 900 contains an X-Y coupling for horizontal tracking in ophthalmology. As a standard, the microscope is equipped with a 200 mm front lens. Other lenses up to 400 mm focal lengths, and especially a 175 mm lens, are available.

The microscope always remains balanced. No springs need to be tightened, no knobs turned. The electromagnetic brake retains the microscope safely in its working position.

ACCESSORIES

On demand

To facilitate the alignment of toric IOLs during operation, our TOCULAR is recommended. Additional accessories include a KERATOSCOPE and EIBOS 2, the non-contact wide-angle ophthalmoscope for vitreoretinal surgery.

For coobservation HAAG-STREIT SURGICAL offers various observer scopes, attached via a beam splitter. Furthermore, the high-resolution monitor M.DIS with touch functionality can be mounted to the microscope arm. In combination with HS MIOS 5 it allows viewing and controlling of video recordings and snapshots during surgery.

FILTERS & LIGHT SPOTS

Intraoperative light management

HS ALLEGRA 900 contains a filter disk for daylight, softlight, UV protection (yellow filter), blue light (excitation of fluorescence), and green light (better recognition of blood vessels). In addition, two spot diaphragms are integrated against glare.



TOCULAR



KERATOSCOPE



EIBOS 2



TURNING KNOB FOR THE FILTER DISK



Imaging possibilities

Observe and document

M.DIS

Microscope mounted display

The M.DIS (Microscope Display) turns the operating microscope into a micro-surgical image control center. The high-resolution screen, mounted close to the eyepiece, provides images or data for the surgeon which they may see by momentarily looking up from the eyepiece. The touch screen allows numerous functions to be controlled.

C.MOR HD

Compact HD camera

C.MOR HD is a full HD color video camera designed for the HAAG-STREIT SURGICAL microscope. Its ultra-compact camera head houses a 1/3" CMOS sensor that meets very high standards. With an HD resolution of 1920 x 1080 pixels, images are crisp and sharp. A 1- and a 3-chip version are available. Different user settings allow individual adjustments.

C.MON HD

Display in HD

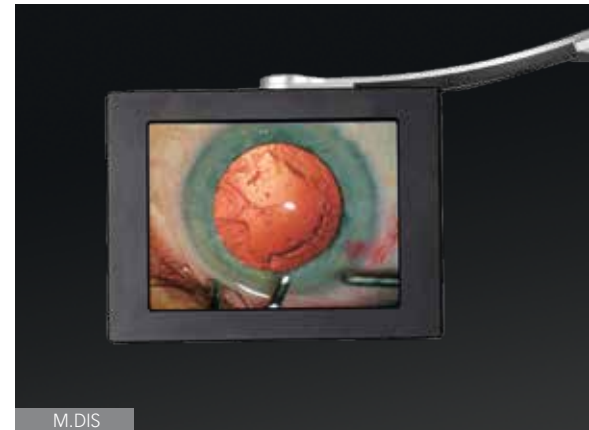
With its flat design and 21.5" size, the brilliant HD monitor C.MON HD can easily be attached to the microscope's floor stand. Its touch function can be operated even with medical gloves. Due to the planar screen and glass surface, it can be disinfected easily. For the safety of the system, C.MON HD is fully approved for medical use.

HS MIOS 5

Comprehensive yet intuitive recording

MIOS stands for Microscope Imaging and Operation System. Its prime functions are the recording of operation scenes as well as the capturing and recording of snapshots, together with proper identification of patient and hospital data. Images and video streams can be stored on DVD-R/-RW, HDD, USB flash drive, and external USB hard disk drive or transmitted to the hospital PACS via DICOM.

The image data can also be edited for presentations with the optional module M.AED. When the snapshot button is pressed, a sequence of the video stream is marked. In the archive, all saved video sequences are merged into one video.



M.DIS



C.MOR HD³



C.MON HD



HS MIOS 5

Floor stand solutions From high-tech to space efficiency



High-tech solutions

Electromagnetic brakes in the floor stands FS 2-21 (halogen) and FS 2-25 (LED) support the smooth movements of HS ALLEGRA 900. A holder for a foot switch can be mounted directly to the column as can trays for camera control units or other equipment. The front side accepts a high-resolution monitor (optional).

Both versions are computer-controlled with a graphic display for programming the individual start settings of the operating surgeons and the surgical procedures. The microscope parameters, brightness, and the carrying weight of the articulated arm are also adjustable and controlled on the graphic display.

The shape and internal reinforcements of the columns make the floor stands extremely stable against vibrations. The cables are inside a cable duct. A plastic surface protects the base of the floor stand against corrosive liquids.

HS ALLEGRA 900
on floor stand FS 2-21 / FS 2-25

Mechanical solutions

The floor stands FS 2-11 (halogen) and FS 2-15 (LED) are equipped with mechanical brakes. The light source is mounted externally for easy access. A tray to carry a camera control unit may be attached to the column.

For smaller operating rooms and systems with few accessories, HAAG-STREIT SURGICAL offers the floor stand FS 1-12 with mechanical brakes and two 150 W halogen light sources with a quick switchover mechanism.

Foot switch control

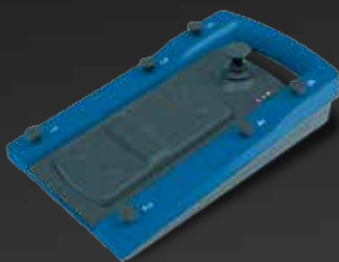
The foot switches EF 5000 and EF 5001 are recommended for hands-free control of the microscope functions. While EF 5000 is connected to the floor stand via cable, EF 5001 controls 14 functions of the microscope wireless via Bluetooth.



HS ALLEGRA 900
on floor stand FS 2-11 / FS 2-15



HS ALLEGRA 900
on floor stand FS 1-12



Foot switch EF 5001 with 14 functions

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