



## HS ALLEGRA 500 / 700

Supports surgeons with  
clear ideas



**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 the quality of life.

 **HAAG-STREIT**  
SURGICAL

WHEN SPEED AND FLEXIBILITY ARE YOUR DAILY BUSINESS:

## HS ALLEGRA 500 / 700

# Proud to be part of your team

The HS ALLEGRA 500 and HS ALLEGRA 700 are optimized for established ENT surgeons and surgical procedures in private clinics, surgical centers, and hospitals.

By your side – not only as a technical instrument, but also as an optimal assistant: easy to handle and always balanced to provide perfect performance, just as you need it.

Due to the inclination angle of  $-30^{\circ}$  to  $+120^{\circ}$  and the lateral tilt of  $\pm 45^{\circ}$ , deep cavities and narrow canals can be optimally illuminated and examined, while the microscope head remains

balanced. No springs need to be tightened, no knobs turned. The electromagnetic brakes retain the microscope safely in its working position.

The apochromatic optics provide a sharp and high-contrast image at any magnification. Thanks to the large stereo base of 25 mm, an exceptional depth perception is achieved.

Discover more functions and innovative options, while configuring your individual ALLEGRA microscope.

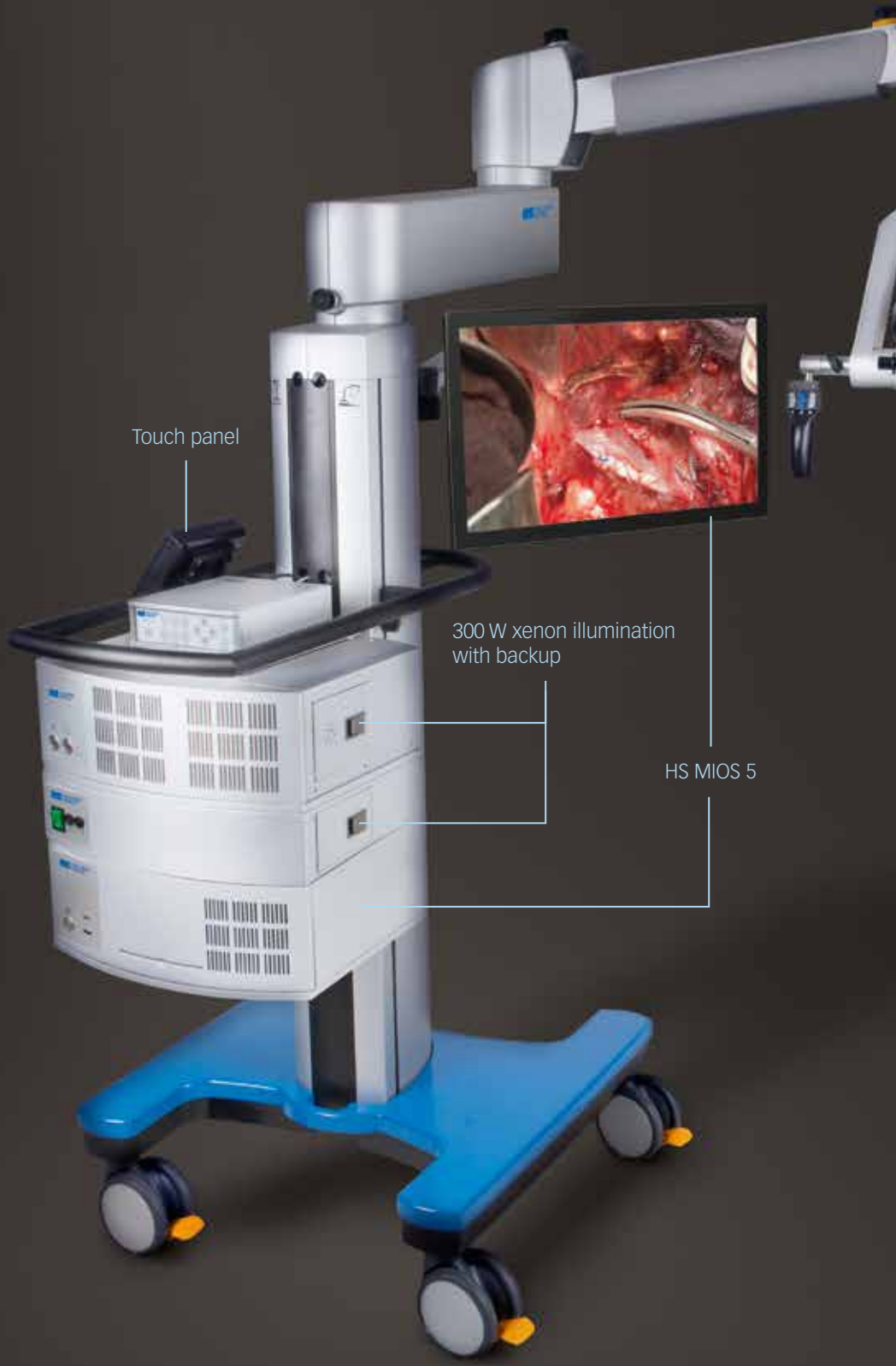
Welcome to HAAG-STREIT SURGICAL – driven by your demands.





Finally, a microscope  
that allows me to absolutely  
focus on my work.





Touch panel

300 W xenon illumination  
with backup

HS MIOS 5

HS ALLEGRA 700 on floor stand FS 2-13



## Easy handling Gives assistance a new meaning

Due to changing operating procedures, active assistance is increasingly needed. HAAG-STREIT SURGICAL therefore offers two microscopes in line with your varying needs: HS ALLEGRA 500 and HS ALLEGRA 700.

Both are designed to rotate cardanically around their center of gravity in all directions, requiring minimal force. Two ergonomic hand grips with function buttons facilitate control of the microscope. These contain a motorized focus, ranging from 200 mm to 450 mm, and an inclinable 160° eyepiece head. This configuration makes both of them the ideal microscope in your operating room.

If you need further assistance, the new HS ALLEGRA 700 offers a stereoscopic observer and a premounted camera attachment. For mounting a laser adapter, the turning axis of the microscope is adjustable to retain the full balance, allowing you to handle operations in the ENT surgeries.

Enjoy the easy handling of the HS ALLEGRA family!



HS ALLEGRA 500 WITH LASER ADAPTER

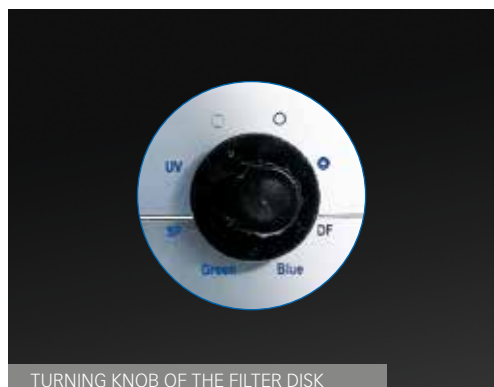


HS ALLEGRA 700

### FILTERS AND LIGHT SPOTS

## Intraoperative light management

HS ALLEGRA 500 and HS ALLEGRA 700 contain a filter disk for daylight, soft light, yellow filter (UV protection), blue light (excitation of fluorescence), and green light (better recognition of blood vessels). In addition, two spot diaphragms against glare are integrated.



TURNING KNOB OF THE FILTER DISK



- » The specialist for ENT procedures
- » High comfort thanks to zoom optics, variable focus, and ergonomic handles
- » Perfect permanent balancing

HS ALLEGRA 700 on floor stand FS 2-13



## Observe and record **Developed for you to focus**

M.DIS

### Microscope mounted display

The M.DIS (Microscope Display) turns the operating microscope into a microsurgical image control center. Mounted close to the eyepiece, the high-resolution screen provides images or data for the surgeon that they can see by momentarily looking up from the eyepiece. Numerous functions can be controlled via the touch screen.

C.MOR HD

### Compact HD camera

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

C.MON HD

### Display in HD

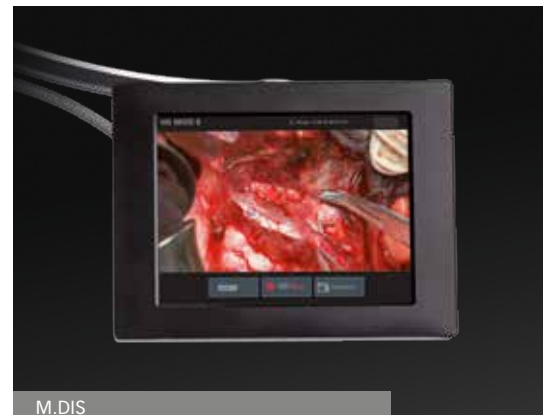
With its flat design and 21.5" size, the brilliant HD monitor C.MON HD can easily be attached to the microscope's floor stand. Its touch function can be operated even if the user is wearing medical gloves. Thanks to the planar screen and glass surface, the monitor can easily be disinfected. The C.MON 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 to record operating scenes, to capture and record snapshots, and to properly identify 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 HD<sup>3</sup>



C.MON HD



HS MIOS 5



HS ALLEGRA 700 on floor stand FS 2-23



# Floor stand systems

## Your **tailormade** accompaniment

### Mechanical solutions

The floor stands FS 2-11 (halogen), the brand-new FS 2-13 (xenon), and the FS 2-15 (LED) are equipped with newly designed mechanical brakes, which allow individual adjustments for free-floating movements and stable working positions.

The light source is mounted externally for easy access. For the FS 2-13, a touch-panel display is optionally available, which can be mounted at the push bar of the floor stand to configure individual user settings.

### High-tech solutions

Electromagnetic brakes inside the floor stands FS 2-21 (halogen), FS 2-23 (xenon), and FS 2-25 (LED) support the smooth movements of HS ALLEGRA 500 and HS ALLEGRA 700. A holder for a foot switch can be mounted directly on the column – as can trays for camera control units or other equipment. In addition, a high-resolution monitor can be attached to the front side.

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 and brightness are also adjustable and controlled via the graphic display. The carrying weight of the articulated arm needs to be controlled manually.

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



HS ALLEGRA 500 ON FLOOR STAND FS 2-13



HS ALLEGRA 700 ON FLOOR STAND FS 2-13



HS ALLEGRA 500 ON FLOOR STAND FS 2-23

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HAAG-STREIT SURGICAL and MÖLLER-WEDEL maintain a Quality Management System for Medical Products according to ISO 13485. MÖLLER-WEDEL not only develops innovative products, but also produces them in a manner that is respectful of the environment. Fulfilling an Environmental Management System according to ISO 14001 is the guideline that is always followed. The Quality and Environmental Management Systems are both TÜV-certified.



All products conform to the EC guidelines and are thus CE-labeled.



## HS ALLEGRA 500 / 700

### Technical specifications



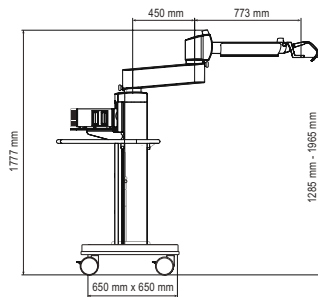
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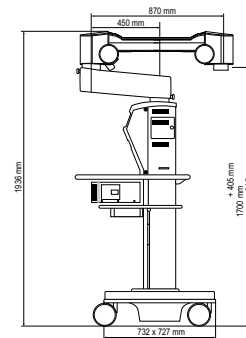
# HS ALLEGRA 500 / 700

## Technical specifications

Microscope	HS ALLEGRA 500	HS ALLEGRA 700
Optics	apochromatic	
Stereo base	25 mm	
Working distance	200 mm to 450 mm, motorized	
Magnification (Motorized zoom 1:6)	1.6x to 16.8x	
Diameter of visual field	12.5 mm to 128.7 mm	
Illuminated field	5 mm to 156 mm	
Inclinable eyepiece head (10x wide angle oculars)	160°	
Diopter settings	-8 D to +5 D	
Inclination angles	-30° to +120°	
Lateral tilt	+/-45°	
Brakes	electromagnetic	
Filter disk	2 diaphragms, 5 color filters	
Weight (without accessories)	6.6 kg	9.5 kg
Accessories	cameras, laser adapter	cameras, st. observer, laser adapter



Floor stands  
FS 2-11 / FS 2-13 / FS 2-15



Floor stands  
FS 2-21 / FS 2-23 / FS 2-25

Floor stands	FS 1-12	FS 2-11 / FS 2-13 / FS 2-15	FS 2-21 / FS 2-23 / FS 2-25
Arm reach (max.)	1120 mm	1223 mm	1320 mm
Swivel area	2 x 360°	2 x 300°	2 x 270°
Door height	1640 mm	1777 mm	1936 mm
Floor stand carriage	600 mm x 600 mm	650 mm x 650 mm	732 mm x 727 mm
Carrying capacity	4.5 kg to 9.0 kg	4.5 kg to 15.0 kg	5.5 kg to 17.0 kg
Brakes	mechanical		electromagnetic
Balancing	mechanical		mechanical, sensor-aided
Height at oculars (HS ALLEGRA 500)	913 mm to 1673 mm	1038 mm to 1718 mm	1138 mm to 1858 mm
Height at oculars (HS ALLEGRA 700)	892 mm to 1652 mm	1017 mm to 1697 mm	1117 mm to 1837 mm
Illumination	2 x 150 W halogen	2 x 150 W halogen / 2 x 300 W xenon / 2 x 50 W LED	
Protection filter	UV, IR		
Operating voltage	100 VAC to 240 VAC		
Max. power consumption	400 VA	600 VA / 900 VA / 950 VA	1200 VA / 1000 VA / 1000 VA
Weight	80 kg	198 kg / 196 kg / 198 kg	240 kg
Foot switch	14 functions		

Subject to alterations.