

HS ALLEGRA 300 Setting the pace



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.



Enjoy Microsurgery



OUR HIGHLIGHTS:

HS ALLEGRA 300 is optimized for oral cavity and plastic reconstructive procedures. With the support of two ergonomic handles the microscope rotates cardanically around its center of gravity, thus providing optimal movement in all directions. This construction keeps the microscope permanently in balance.

The microscope's large stereo base of 25 mm results in an exceptional depth perception. The optics provides high color fidelity, strong contrast, and high resolution.

Factory-preadjusted mechanical soft-glide brakes allow extremely high movability of the microscope and safe stability in the working position. The HS ALLEGRA 300 contains a 1:6 zoom and a fine focus adjustment.







Movability, light & accessories

For better access of the assistant on the left, the microscope arm is mounted at the right side. The inclination angles of -55° to $+95^{\circ}$ and the lateral tilt of 45° provide optimal illumination for recognition of deep cavities and small canals.

The inclinable 160° eyepiece head can be mounted to the VERTISCOPE, a 60° adapter, to allow extreme retrograde viewing. This adapter contains a rotatable ring to move the oculars into a horizontal position even when the microscope is tilted sideways.

For coobservation the high-resolution monitor M.DIS can be mounted to the microscope arm, where it will not affect the balance. M.DIS allows intraoperative viewing and controlling of video recordings and snapshots.

Optionally, an integrated video camera (1 CCD) can be delivered. This reduces the length of the microscope and makes cleaning easier. Attachments for small digital cameras are also available.

INTRAOPERATIVE LIGHT MANAGEMENT

HS ALLEGRA 300 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.

An additional UV filter may be switched in to protect the surgeon's eyes during UV hardening of filling material.



Image Management

HS MIOS

MIOS stands for **M**icroscope Imaging and **O**peration **S**ystem. Its prime functions are recording of operation scenes, capturing and recording of snapshots, together with proper identification of patients' 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.



C.MOR HD

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 a resolution of 900 TV lines and an S/N ratio of 500 dB images are crisp and sharp. Different user settings allow for individual adjustments.



C.MON HD

With its flat design and the size of 21.5" 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.





Floor stand solutions



Electromagnetic brakes in the floor stands FS 2-21 (halogen), FS 2-23 (xenon), and FS 2-25 (LED) support the smooth movements of the microscope. A holder for a foot switch can be mounted directly to the column as can trays (with transformers) for camera control units or other equipment. The front side accepts a high-resolution monitor (optional).

All versions are computer-controlled with a touch screen for programing of the individual start settings of the surgeons and the surgical procedures.

The shape and internal reinforcements of the column make the floor stands extremely stable against vibrations. The cables are completely covered in easily accessible cable ducts. The design already meets future standards.

All scra of t

F

HS ALLEGRA 300 on floor stand FS 2-23

MECHANICAL SOLUTIONS

The floor stands FS 2-11 (halogen) and FS 2-15 (LED) are equipped with newly designed mechanical brakes, which are factory-preadjusted for free-floating movements and stable working positions. The light source is mounted externally for easy access.

If only little space is available, the floor stand FS 1-12 with mechanical brakes, a 150 W halogen light source, and switchable backup lamp is recommended.





HS ALLEGRA 300 on floor stand FS 1-12

Members of HAAG-STREIT Group

HAAG-STREIT Holding AG www.haag-streit-holding.com

HAAG-STREIT AG www.haag-streit.com

SPECTROS AG www.spectros.ch

HAAG-STREIT Medtech AG www.haag-streit-medtech.com

HAAG-STREIT France EURL www.haag-streit.fr

HAAG-STREIT Far East www.haag-streit-fareast.com

HAAG-STREIT Surgical GmbH www.haag-streit-surgical.com

MÖLLER-WEDEL GmbH & Co KG www.moeller-wedel.com

MÖLLER-WEDEL Optical GmbH www.moeller-wedel-optical.com

HAAG-STREIT Deutschland GmbH www.haag-streit.de

IPRO GmbH www.ipro.com

CLEMENT CLARKE Ltd. www.clement-clarke.com

HAAG-STREIT UK www.haag-streit-uk.com

John Weiss Ltd. www.johnweiss.com

HAAG-STREIT USA www.haag-streit-usa.com

Reliance Medical Inc. www.haag-streit-usa.com

Asetronics AG www.asetronics.ch

ComLab AG www.comlab.ch

HAAG-STREIT SURGICAL distributes products manufactured by MÖLLER-WEDEL through dedicated representatives as well as national sister companies globally.

HAAG-STREIT-SURGICAL as well as MÖLLER-WEDEL maintain a Quality Management System for Medical Products according to ISO 13485. MÖLLER-WEDEL is not only developing innovative products but also producing them conscious to the environment. Fulfilling an Environmental Management System according to ISO 14001 is the guide line. Both, the Quality as well as the Environmental Management System, are certified by TÜV.

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

(F



Rosengarten 10 D-22880 Wedel, Germany Telephone +49-4103-709 04 Fax +49-4103-709 355 info@haag-streit-surgical.com www.haag-streit-surgical.com



HS ALLEGRA 300









Technical Data HS ALLEGRA 300

Operating microscope	HS ALLEGRA 300	
Stereo base	25 mm	
Working distance	237 mm to 263 mm (manual fine focus)	
Magnification (Motorized zoom 1:6)	2.8x to 18x	
Diameter of visual field	11.7 mm to 74 mm	
Illuminated field	4 mm to 90 mm	
Inclinable eyepiece head (10x wide angle oculars)	160°	
Diopter setting	-8 D to +5 D	
Inclination angles	-55° to +95°	
Lateral tilt	+/-45°	
Rotation	338°	
Brakes	electromagnetic	
Filter disk	2 diaphragms, 5 color filters	
Surg. protection filter	UV	
Weight (including eyepiece head)	6.3 kg	



FS 1-12







FS 2-21/FS 2-23/FS 2-25

FS 1-12	FS 2-11/FS 2-15	FS 2-21/FS 2-23/FS 2-25
1120 mm	1223 mm	1320 mm
2 x 360°	2 x 300°	2 x 270°
1640 mm	1777 mm	1936 mm
600 mm x 600 mm	650 mm x 650 mm	732 mm x 727 mm
4.5 kg to 9.0 kg	4.0 kg to 15.0 kg	5.5 kg to 17.0 kg
mechanical	mechanical, preset	electromagnetic
mechanical		mechanical, sensor-aided
901 mm to 1661 mm	1026 mm to 1706 mm	1131 mm to 1851 mm
2 x 150 W halogen	2 x 150 W halogen/	2 x 150 W halogen/
	2 x 50 W LED	1 x 300 W xenon/2 x 50 W LED
UV, IR		
100 VAC, 115 VAC, 230 VAC, 240 VAC; 50/60 Hz; selectable		
400 VA	600 VA/450 VA	1200 VA/1000 VA/1000 VA
80 kg	198 kg	240 kg/250 kg/240 kg
14 functions		
	1120 mm 2 x 360° 1640 mm 600 mm x 600 mm 4.5 kg to 9.0 kg mechanical 901 mm to 1661 mm 2 x 150 W halogen UV, IR 100 VAC, 115 VAC, 230 VA 400 VA 80 kg	1120 mm 1223 mm 2 x 360° 2 x 300° 1640 mm 1777 mm 600 mm x 600 mm 650 mm x 650 mm 4.5 kg to 9.0 kg 4.0 kg to 15.0 kg mechanical mechanical, preset 901 mm to 1661 mm 1026 mm to 1706 mm 2 x 150 W halogen 2 x 150 W halogen/ 2 x 150 W halogen 2 x 150 W LED UV, IR 100 VAC, 115 VAC, 230 VAC, 240 VAC; 50/60 Hz; select 400 VA 600 VA/450 VA 80 kg 198 kg

50 021 02 – Printed in Germany

Ceiling units on request. Subject to alterations.