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HS HI-R 700

Modular operating microscope

Getting to the point in terms of impressive optical image quality, extraordinary movability and modular design. This is HS Hi-R 700!

HS HI-R 700

Closer to reality

The spatial recognition of objects is a decisive criterion in microsurgery. For this reason, the operating microscope HS Hi-R 700 has a large 25 mm stereo base, providing realistic 3D images and an astonishing depth perception.

OPTIMAL LIGHTING

Better vision

The small illumination angle gives uniform light, even in narrow cavities. The illumination diaphragm controls the size of the illuminated field and decreases glare. Vision can be further improved especially when high magnification is used: For sharpening objects in different working distance the depth of field can be individually adjusted with the integrated iris diaphragm.

NATURAL MOVABILITY

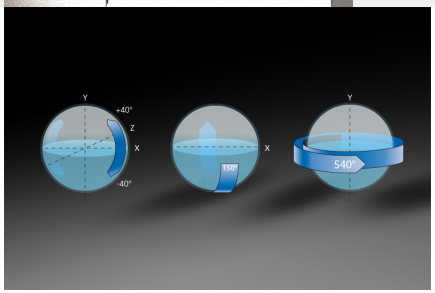
Less effort

The special design of the axes provides natural movement and precise positioning of the microscope. Due to electromagnetic brakes, little force is necessary to maneuver the microscope or keep it steady in position where needed.

LITTLE ADJUSTMENTS

Ideal for one-handed use

Thanks to the safe balancing of HS Hi-R 700, there is less need for readjustments. The 2-knob balancing mechanism is software-assisted for quick settings, allowing accessories to also be perfectly balanced. This results in a more continuous workflow and provides one-hand use in all configurations.



HIGH DEGREE OF FREEDOM

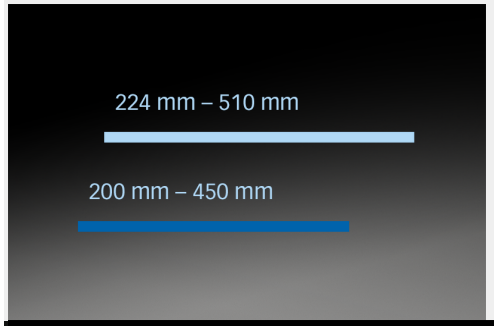
Positioning made easy

Due to the large movement angles of HS Hi-R 700, all the positions you need are easy to reach. This provides best observation at just the right angle while also allowing the surgeon to adopt ergonomic posture.

FOCUSING

High flexibility

The variable focus assembly permits working distances from 224 mm to 510 mm without lens exchange. Optionally an alternative focus assembly is available that allows focusing at working distances of 200 mm to 450 mm. The integrated double iris diaphragm can be used to maximize the depth of field.



ACCESSORIES

Possibilities on demand

Depending on the demand, the operating microscope HS Hi-R 700 can be configured in a modular way. Various optional accessories are available.

SECONDARY OBSERVATION

Flexibility

When working together the right accessory is needed:

- Lateral observer scope with inclinable eyepiece head and image rotation for the assistant’s optimal comfort.
- C.DUO offers face-to-face observation for two surgeons, lateral ports, and a separate camera connection. Eyepieces are fully rotatable for ergonomic positioning when tilting of the microscope.
- To suit differences in height among surgeons various eyepiece heads allows best ergonomics.

HS MIOS 5

Comprehensive yet intuitive recording

The prime functions of HS MIOS 5 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.

C.MOR HD / HD³

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. In its 1 and 3-chip version, images are crisp and sharp. Different user settings allow individual adjustments.

M.FOCUS

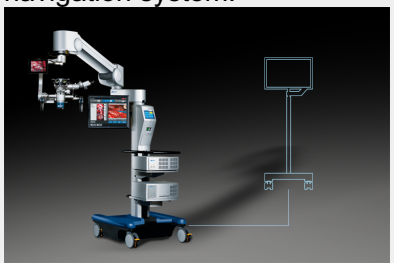
Best focusing results

Automatic focusing is available with the HS MIOS 5 software module M.FOCUS. Benefit from best focusing results with an active focus area that is adjustable in size and position.

NAVIGATION

Open interface

The HS Hi-R 700 provides an open interface for connection with navigation systems. It supports pointer functions as well as control of focus by the navigation system.



M.DIS AND C.MON HD

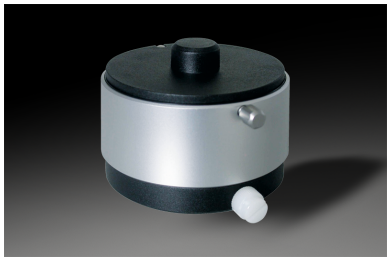
Display

Best control of the camera image and additional opportunities for observation are provided through monitors. Those may be mounted directly to the microscope head to serve the surgeon and the assistant (M.DIS) or on the floor stand for further staff (C.MON HD).

MOUTH AND FOOT SWITCHES

Hands-free operation

The positioning of the microscope is normally operated using the handles. In addition, mouth and foot switches are also available. While the mouth switch allows the microscope to be moved during positioning, the smaller foot switch EF 2000 regulates focus and zoom settings. 14 partly programmable functions can be controlled with EF 5000 and the wireless EF 5001.



MAGNIFEYE

Seeing each detail

The MAGNIFEYE can be added to meet the highest demands in terms of up to 24x magnification. When using high magnification, you also benefit from the motorized X-Y movement HS Hi-R 1000 is offering for precise horizontal movements. These are easily controlled via the hand switch.

FLOOR STANDS

More than just carrying systems

For HS Hi-R 700 three floor stand as are available, all equipped with 300 W xenon illumination: Spring arm balanced FS 2-23 and FS 3-43 differentiating in arm reach and balancing and FS 5-33 the counterweight balanced system for extra reach.

FS 5-33

Solid as a rock!

The floor stand FS 5-33 integrates the latest technology with innovative damping for the lowest vibration. Even when fully equipped microscopes are mounted and the arm is stretched to its full length of 1870 mm, it still stays solid as a rock! Servo locks and state-of-the-art castors allow effortless maneuverability.

IF GOLD DESIGN AWARD

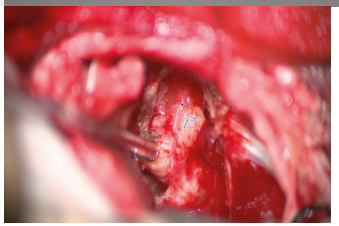
Elegant and subtle with precise functionality

“Despite the products necessary complexity and high precision requirements, the design of this stand for surgical microscopes is very elegant and subtile. The device has a calm and clean appearance. This is a great advantage for daily use in hospitals as it helps to structure workflows in a more pleasant and stress-free manner. While the product is quite large it nonetheless features subtle forms and highly precise functionality. A truly outstanding and excellently designed surgical device.“

C.TAB AND CENTRAL TOWER

Control

The central tower of the stand neatly houses the light sources as well as accessories such as the recording system and camera control units. Control of the microscope system is accomplished with the C.TAB touch panel. It allows for setting the parking position, automated floor stand balancing, individual user settings for over 30 surgeons with 5 applications each.



2X 300 W XENON

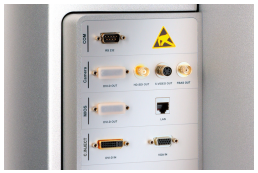
Powerful light

The two independent, powerful 300 W xenon light sources allow the best visibility, even in deep cavities. The quick exchange mechanism ensures the system is available quickly at all times.

PARKING POSITION

Compact for storage

The positioning for transport and parking is easily set and locked via C.TAB. The compact setting allows effortless maneuverability through hallways and requires little storage space.



CONNECTION PANEL

Easy accessibility

All needed connections for external monitors, network, or navigation system communication are easily accessible from one central panel.

FS 3-43

Perfect reach, stability, flexibility

With its extreme arm length of 1600 mm the floor stand FS 3-43 allows great flexibility for positioning in the OR. The automatic balancing easily and fast adjusts the system when accessories are changed. Additional holders for foot switches, trays for camera control units, and a high resolution monitor or other accessories may be attached to the column.

FLOOR STAND CONTROL

At a glance

The floor stand is computer-controlled via a touch screen. Here illumination and balancing can be controlled. Additionally, the individual start settings of the microscope parameters can be programmed for each surgeon.

300 W XENON

Powerful light

For easy access, the 300 W xenon light source is located externally underneath the push bar. The upper housing contains a spare light module. The xenon light sources contain filters to protect the surgeon’s eyes and the patient’s tissue against ultraviolet and infrared radiation.

FS 2-23

Modularity, strength, compact design

In FS 2-23 the arms with a total reach of 1320 mm feature low-friction bearings, electromagnetic brakes, and vibration dampers for free movement and stability of the working position. The carriage is equipped with four twin castors with brakes. Simply accessible cable ducts cover the cables up to the microscope suspension.

FLOOR STAND CONTROL

At a glance

The floor stand is computer-controlled via a touch screen. Here illumination and balancing can be controlled. Additionally, the individual start settings of the microscope parameters can be programmed for each surgeon.

300 W XENON

Powerful light

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