

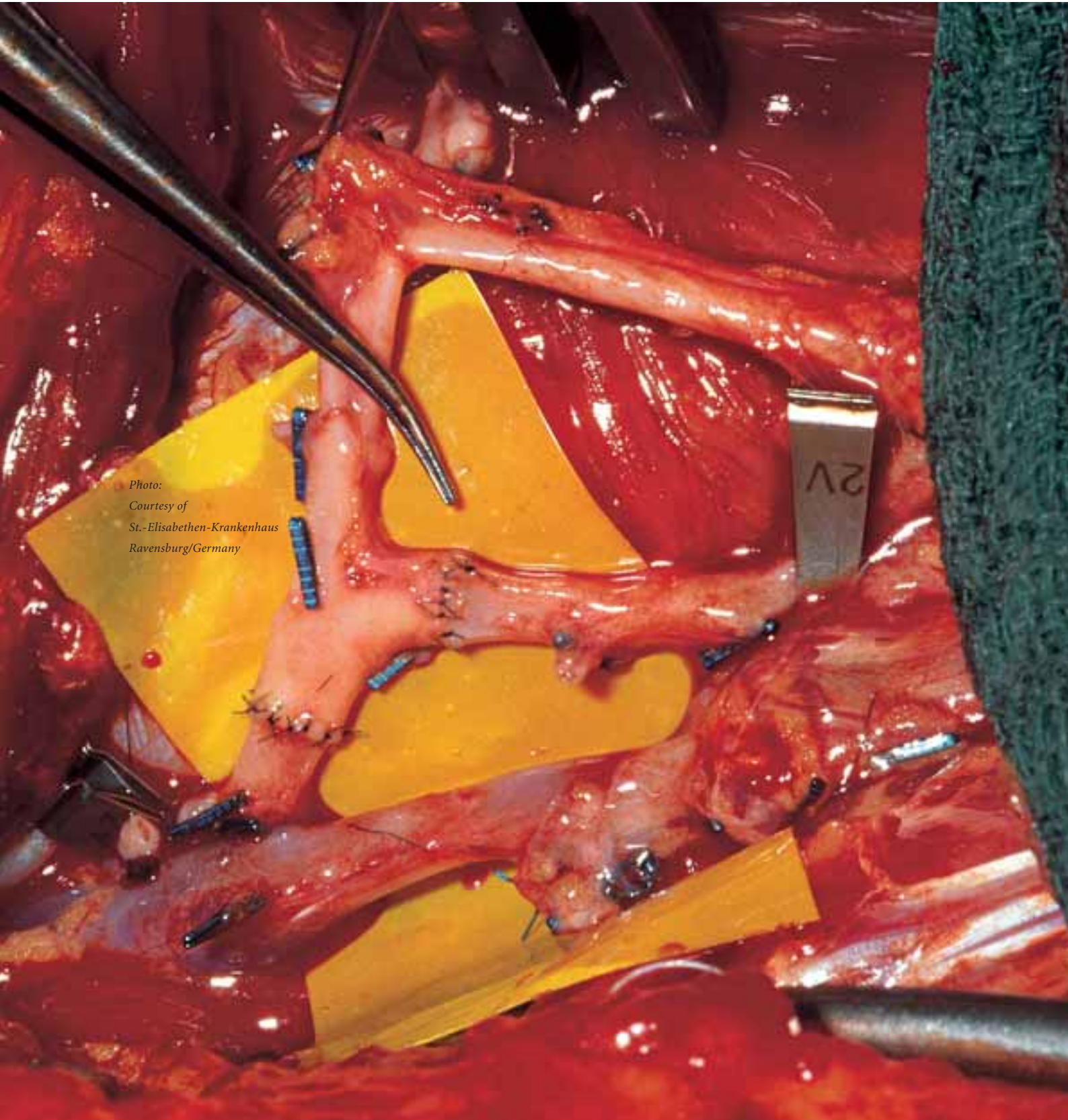
# OPMI Vario/S 88 System

## Expand your vision



**OPMI Vario/S 88 System**  
**See the difference ZEISS makes**

# Extend your horizons OPMI Vario/S 88 System



*Photo:  
Courtesy of  
St.-Elisabethen-Krankenhaus  
Ravensburg/Germany*



# Plastic & Reconstructive Surgery

## **A historic breakthrough**

One of the most important breakthroughs in plastic and reconstructive surgery was the introduction of the surgical microscope in the 1960s. And, right from the beginning, Carl Zeiss, in collaboration with leading P&R surgeons, has been committed to supporting the extremely precise work of microsurgeons, by providing them with the best possible visualization solutions. The operating microscope, specifically designed for plastic and reconstructive surgery, helps surgeons to preserve and restore important locomotive functions of the human body, improving and enhancing the patient's quality of life.

## **Anastomoses - microsurgery at its best**

Two of the greatest challenges facing P&R microsurgeons are the separation and re-attachment of individual nerve fascicles, and the anastomoses of extremely small capillary blood vessels. In both cases, a high precision suturing technique is used to anastomose the structures and tissues. The OPMI Vario/S 88 System, with the extraordinary image quality of Carl Zeiss apochromatic optics, provides the visualization of the finest details and the precise positioning required for these delicate procedures. By using the foot control panel to operate the X-Y coupling, the surgeon can easily reposition the microscope without ever laying his instrument aside.

## **Helping preserve and restore motor functions**

In all reconstructive surgery applications be it plexus surgery, re-attachment of limbs, or transplantation of free flaps, it is essential to reliably prepare and re-connect the microvessels. Properly re-attached nerves restore the sense of touch and re-activate muscles, while correctly re-connected blood vessels provide these areas with blood, the elixir of life. Regardless of the application, the OPMI Vario/S 88 System provides the surgeon with unparalleled comfort even when using multiple accessories including the stereo bridge. Combined with the Varioscope optics, the OPMI Vario is truly the optimum choice for plastic and reconstructive surgery.



# Perfection - before your very eyes



*Fingertip control of focus,  
zoom and positioning.  
Plus, two programmable  
buttons bring many other  
functions, such as light  
intensity and image capture,  
into the surgical field.*

*1:6 Carl Zeiss zoom system*

*Varioscope with a  
continuously variable  
working distance from  
200 mm to 415 mm\*.*



**Carl Zeiss -  
optical excellence**

Legendary Zeiss optics form the heart of the OPMI Vario microscope. The apochromatic design delivers improved image quality, resolution and color fidelity.

A Varioscope providing a range from 200 to 415 mm\* coupled with the renowned 1:6 Carl Zeiss zoom ensures that these optics are ergonomically at your service.

In combination with the integrated Superlux 180 Xenon light source, even the finest details become brilliantly visible.

*Ergonomic face-to-face procedures are provided by the symmetrical stereo bridge with two documentation ports, inclinable binocular tubes and rotatable tube adapters.*

*Motorized and manual focus adjustment*

*Spot illumination allows individual adjustment of the illumination field.*

Neuro



Spine



P&R



# Extend your capabilities



*MediLive Primo 1CCD camera  
with compact camera adapter*



*MediLive Trio 3CCD  
camera mounted on  
C-mount connector*



*Foot Control Panel*



*Five-button Panel  
for the ZEISS Navigation  
Interface*



**Carl Zeiss -  
optical excellence**

Legendary Zeiss optics form the heart of the OPMI Vario microscope. The apochromatic design delivers improved image quality, resolution and color fidelity.

A Varioscope providing a range from 200 to 415\* mm coupled with the renowned 1:6 Carl Zeiss zoom ensures that these optics are ergonomically at your service.

In combination with the integrated Superlux 180 Xenon light source, even the finest details become brilliantly visible.

*Ergonomic face-to-face procedures are provided by the symmetrical stereo bridge with two documentation ports, inclinable binocular tubes and rotatable tube adapters.*

*Motorized and manual focus adjustment*

*Spot illumination allows individual adjustment of the illumination field.*

# Rising to the occasion - the S 88 floor stand



*The OPMI Vario is ready to use without disturbing the surgical workflow.*



*The overhead clearance of the OPMI Vario/S88 System allows positioning of the system virtually anywhere – including behind even the tallest, upright standing surgeons.*



*Lowering the power column ensures an equally comfortable position for seated surgeons.*



**Your flexible  
pillar of strength**

For good visualization, a rock-steady suspension system is necessary – precisely what our S88 floor stand and S8 and S81 ceiling mounts have been designed to provide. The magnetically locked joints on the

lifting arm of the suspension system and the OPMI Vario ensure that, once positioned, the microscope stays where it is. The magnetic brakes for the OPMI and the suspension system can either be entirely or selectively released.

*The power column allows the OPMI Vario/S 88 System to be easily adjusted to the proper height for any procedure.*



# Technical Data

The 15" TFT monitor ensures that all OR staff – whether assistants, nurses or students – is able to follow the action.



The LCD display can be used to view, activate and customize all individual settings for up to 9 surgeons.



Even the finest details are readably visible with our 180 W Xenon illumination.



The wrap-around handle allows the OR staff to move the suspension system with the utmost precision.



Four rotatable castors guarantee optimum positioning of the system over short and longer distances.



## OPMI Vario

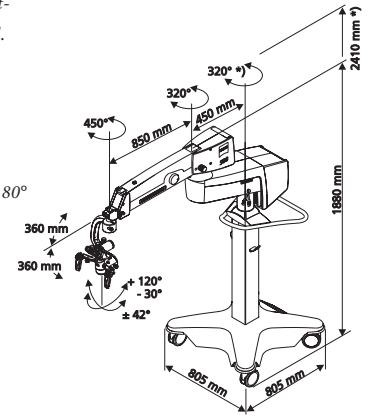
### Magnification:

Motorized Zeiss zoom, 1:6 ratio, adjustable via handgrip or foot control panel.

**Focus System:** Internal, motorized, continuously variable, adjustable via handgrip or foot control panel.

**Working Range:** 200-415 mm\*\*

**Main Binocular Tube:** Inclinaable 0°-180° with 10x/21B widefield eyepieces.



S88 Floor Stand

## S88 Floor Stand

### Available Versions:

Fixed Height Column 1880 mm

Power Column 1880-2410 mm

**Line Voltage:** 115/230 VAC ± 10%

**Line Frequency:** 50...60 Hz

**Power Consumption:** 115 VAC max. 10 A

230 VAC max. 8 A

### Line Protection:

Automatic Circuit Breaker

### Weight:

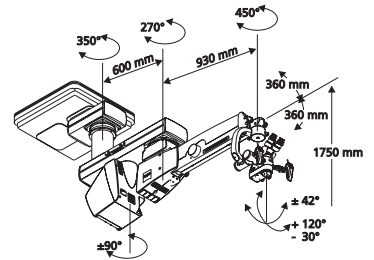
Fixed Height Column: approx. 225 kg (with OPMI)

Power Column: approx. 250 kg (with OPMI)

**Compliance:**

EN 60601-1

CE  176164



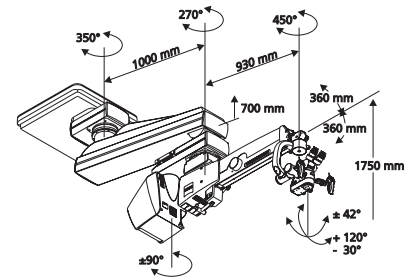
S81 Ceiling Mount

## Superlux 180 Light Source

### Main Illumination

### and Backup Illumination:

180 W Xenon daylight color temperature lamp delivered via fiber-optic light guide in fast action changer.



S8 Ceiling Mount

\* Power Column

\*\* 210 – 535 mm with auxiliary lens

**Your flexible pillar of strength**

For good visualization, a rock-steady suspension system is necessary – precisely what our S88 floor stand and S8 and S81 ceiling mounts have been designed to provide. The magnetically locked joints on the

lifting arm of the suspension system and the OPMI Vario ensure that, once positioned, the microscope stays where it is. The magnetic brakes for the OPMI and the suspension system can either be entirely or selectively released.



*The OPMI Vario is also available on S88 floor stand with a fixed height column or S8 or S81 ceiling mount.*

Experience the amazing possibilities offered by the  
OPMI Vario/S 88 System from Carl Zeiss in:

1. *Neurosurgery*
2. *Spine Surgery*
3. *Plastic & Reconstructive Surgery*
4. *ENT Surgery*



**Carl Zeiss Surgical GmbH**  
A Carl Zeiss Meditec Company  
73446 Oberkochen  
Germany

Fax: +49 7364 20-4823  
Email: [surgical@meditec.zeiss.com](mailto:surgical@meditec.zeiss.com)  
[www.meditec.zeiss.com/p+r](http://www.meditec.zeiss.com/p+r)  
[www.meditec.zeiss.com/contacts](http://www.meditec.zeiss.com/contacts)

OPMI and Medilive are registered trademarks of Carl Zeiss.  
© Carl Zeiss