

# ZEISS PENTERO 800 S

## Much more than just a supermicroscope – a system designed for today's digital age

As a full-range optical system with comprehensive functionalities, including extended optical and digital capabilities as well as integrated connectivity options, the ZEISS PENTERO 800 S meets the demanding needs of a broad field of plastic and reconstructive applications.



**Surgery at submillimeter level**
Enjoy an optimized ratio between a high level of resolution and matching magnification.

**Tablet-like user interface**
Change settings, choose visualization modes and browse stored data quickly with a modern tablet-like user interface.

**Improved OR efficiency**
Support your clinical workflows with fully integrated ZoomMemory, AutoBalance, AutoDrape® and AutoFocus.

**Data sharing anytime, anywhere**
Access and share seamlessly images and videos for patient and peer communication.

**Full surgical flexibility**
Switch between exoscopic (4K 3D resolution) and proven full-range optical visualization easily on demand.

**Exchange of expertise**
Stream your surgical procedure effectively to teach the next generation of surgeons in real time.

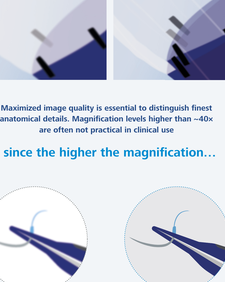
**Fully integrated design concept**
Operate and maneuver the surgical microscope smoothly through complete integration of all options.

## Finest resolution and high magnification with the Resolution Enhancer for super-microsurgical procedures.

Thanks to the unique Resolution Enhancer – a "mini-microscope" attached to the microscope's head – it is possible to visualize the smallest anatomical details by zooming in closer on the application at hand and increasing image quality at the same time:

Higher magnification of more than

**60×**



Higher resolution with at least

**120 lp/mm**

## It's not just about magnification!

To differentiate finest structures at submillimeter level, the Resolution Enhancer of ZEISS PENTERO 800 S allows you to zoom in closer on the application at hand, while increasing the image quality – thanks to the optimized ratio of a high level of resolution and the matching magnification.




**Maximized image quality is essential to distinguish finest anatomical details. Magnification levels higher than ~40× are often not practical in clinical use**

## since the higher the magnification…



**… without the necessary resolution, the blurrier the image depicted.**



**… the lower the light transmission.**



**… the more hand tremor and vibrations are a challenge.**



**… the more difficult it is to orientate in the anatomy.**

"The Resolution Enhancer provides the surgeon […] with much higher resolution than the modus before, and this is very advantageous if you do microsurgery or supermicrosurgery with vessels of 0.2 mm in diameters."



**Chieh-Han John Tzou, MD**
Specialist in Plastic and Reconstructive Surgery, Vienna, Austria



**Christian Taeger, MD**
Specialist for Plastic and Hand Surgery, Munich, Germany

"The main point is the quality of the picture and the zoom factor of the new device that you are really able to go maximum into details. […] And it is much faster because it is much easier for me to get into the lymphatic vessels and make perfect anastomoses."

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