

ABOUT

The **Zeiss OPMI Pentero 800** is a fully integrated surgical microscope available in ceiling-mounted or floor-stand configurations. It was designed specifically for the visual and ergonomic demands of modern neurosurgery, spine surgery, and other complex microsurgical procedures. At its core are Zeiss's proven apochromatic optics, which deliver outstanding image clarity and true color fidelity even when you're working deep within narrow surgical corridors or tight channels.

FEATURES

- **Apochromatic Optics:** Delivers crisp, true-to-life images with excellent color fidelity and contrast.
- **Xenon Illumination:** Uses two separate, independent light pathways to reduce shadowing in deep channels and cavities.
- **Fully Integrated Video Chain:** The camera, recorder, editor, and monitor are all built directly into the microscope system.
- **Infrared Capability:** Lets you visually assess blood flow and vessel patency during anastomosis procedures in real time. One key advantage: no exogenous dyes are required.
- **MultiVision™ Display:** Clinical information such as navigation data and patient details can be injected directly through the eyepiece.
- **PROMAG™ Magnification Boost:** Provides an extra 50% magnification when used with the Foldable Tube f170/f260.



SPECIFICATIONS



OPTICS & VISUALIZATION

Optical System: Apochromatic optics for superior color fidelity and image clarity.

Magnification Changer: 3-step magnification changer for precise control over magnification levels.

PROMAG Function: Provides 50% additional magnification on Foldable Tube f170/f260 for sub-millimeter visualization.

Objective Lenses: Multiple working distance options available (specifics not provided).

Eyepieces: Foldable Tube f170/f260 design for flexible positioning and ergonomic comfort.

ILLUMINATION

Light Source: Two-channel xenon illumination system.

Illumination Type: Dual independent pathways to minimize shadowing in deep cavities.

Field Illumination: Even, consistent illumination across the full field of view.

INTEGRATED VIDEO & DOCUMENTATION

Video Chain: Fully integrated camera, recorder, editor, and monitor.

Data Injection: MultiVision™ heads-up display for navigation data and patient information directly through eyepieces.

Recording: Integrated recording capabilities for procedure documentation.

Connectivity: DICOM module support for integration with hospital information systems.

FLUORESCENCE IMAGING

ZEISS INFRARED 800: Fully integrated option for intraoperative assessment of blood flow and vessel patency during anastomosis procedures.

ERGONOMICS & WORKFLOW

Suspension System: Free-floating suspension for effortless positioning and stability.

AutoBalance: One-step automatic balancing of the surgical microscope, functional even when draped.

AutoDrape: Automated drape functionality for fast setup and sterility maintenance.

FlexiTrak: Enables optimum maneuverability for moving the device between rooms and positioning at any desired location.

VisionGuard: Unique optical lens system that provides an optimally clear view through the objective while maintaining sterility.

USER INTERFACE & CONTROLS

Display: Intuitive touchscreen interface providing direct access to all surgical microscope functions.

Presets: User-configurable preset functions for individual users and procedure types.

Patient Data: Quick patient data setup and management.

Video Control: Integrated controls for video recording and playback.