

The **Zeiss OPMI Pentero** surgical microscope features apochromatic optics that deliver crystal-clear images, sharp details, and natural colors. The OPMI Pentero has 20% more light than previous models with spot illumination to precisely adjust the light cone. The Pentero has integrated high-speed autofocus that automatically delivers sharp images regardless of magnification. With the overhead design of this microscope, the suspensions system can be placed in any position, even behind the surgeon.

Features

- Automated functions such as AutoBalance and AutoDrape
- Image-guided surgery with MultiVision data injection
- Integrated digital visualization, optionally with integrated high-definition (HD) camera head
- DICOM networking capabilities
- Touchscreen operation



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Specifications

Dimensions Height: 81.1" (206 cm)

Width: 28.97" (73.6 cm) **Depth:** 28.97" (73.6 cm)

Magnification System Motorized zoom, apochromatic, 1:6 ratio

Magnification displayed on touchscreen and in the ocular (on demand)

User specific start position

Focusing System Varioskop, apochromatic, 200–500 mm working range

Internal, motorized, continuous adjustment

Magnification linked adjustment of focus speed

High-speed laser autofocus, accurate to +/- 0.5 mm (Class II Laser)

Visual focusing aid with two converging laser spots

Working distance displayed on touchscreen and in the ocular (on demand)

User specific start position

MultiVision System Integrated data display with shutter function

SVGA 800 x 600, color, 50-60 Hz

Color, binocular, injection and superimposition of contours and data

Supported external data signals

- Computer data (VGA Signal)

- I.e. data from navigation systems

- Y/C video data (PAL / NTSC)

- I.e. data from endoscopy systems

Superimposition of system information (focus, zoom, light)

Injection of the touchscreen user interface into the eyepiece for sterile control

of the system

Tubes and Co-Observation Main tube: 0–180° rotatable

Eyepieces 10x/21B, 12.5x/18B

Integrated beam splitter for lateral and face-to-face co-observation Stereo co-observation tube remains fixed when tilting the OPMI

Spine adapter for symmetric face-to-face configurations

Integrated rotary tube adapters

AutoDrape Systems Integrated vacuum system to remove air from sterile drape for fast and easy

draping



Zeiss OPMI Pentero Surgical Microscope

Specifications

Illumination System Superlux 330 light source with two 300 W Xenon daylight character lamps

Integrated light source and light guide

Integrated two-way illumination brightens shadows Variable spot illumination, minimum diameter 10 mm

Semi-automatic lamp exchange

Display of remaining lamp life on Touchscreen

Brightness regulation via handgrips

Magnification dependant automatic brightness adjustment

Synchronized camera flash system

AutoBalance AutoBalance of the microscope, suspension system or entire system by

pushing a button

Microscope AutoBalance independent of position or accessories

Hospital Workflow Varioskop, apochromatic, 200–500 mm working range

Integration Internal, motorized, continuous adjustment

Magnification linked adjustment of focus speed

High-speed laser autofocus, accurate to +/- 0.5 mm (Class II Laser)

Visual focusing aid with two converging laser spots

Working distance displayed on touchscreen and in the ocular (on demand)

User specific start position

MultiVision System LAN interface and modem

Microphone and speaker

Patient data management allowing archival of image, video and audio data

Service file

Remote service interface

