# Zeiss OPMI Pentero Surgical Microscope

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

SOMA TECH INTL • 166 HIGHLAND PARK DRIVE • BLOOMFIELD, CT 06002 • USA
PHONE: 1.800.GET.SOMA • WWW.SOMATECHNOLOGY.COM • EMAIL: SOMA@SOMATECHNOLOGY.COM

Revised 10/6/2020

# Specifications

| | |
|---|---|
| **Dimensions** | **Height:** 81.1” (206 cm)<br>**Width:** 28.97” (73.6 cm)<br>**Depth:** 28.97” (73.6 cm) |
| **Magnification System** | Motorized zoom, apochromatic, 1:6 ratio<br>Magnification displayed on touchscreen and in the ocular (on demand)<br>User specific start position |
| **Focusing System** | Varioskop, apochromatic, 200–500 mm working range<br>Internal, motorized, continuous adjustment<br>Magnification linked adjustment of focus speed<br>High-speed laser autofocus, accurate to +/- 0.5 mm (Class II Laser)<br>Visual focusing aid with two converging laser spots<br>Working distance displayed on touchscreen and in the ocular (on demand)<br>User specific start position |
| **MultiVision System** | Integrated data display with shutter function<br>SVGA 800 x 600, color, 50-60 Hz<br>Color, binocular, injection and superimposition of contours and data<br>Supported external data signals<br>– Computer data (VGA Signal)<br>– I.e. data from navigation systems<br>– Y/C video data (PAL / NTSC)<br>– I.e. data from endoscopy systems<br>Superimposition of system information (focus, zoom, light)<br>Injection of the touchscreen user interface into the eyepiece for sterile control of the system |
| **Tubes and Co-Observation** | Main tube: 0–180° rotatable<br>Eyepieces 10x/21B, 12.5x/18B<br>Integrated beam splitter for lateral and face-to-face co-observation<br>Stereo co-observation tube remains fixed when tilting the OPMI<br>Spine adapter for symmetric face-to-face configurations<br>Integrated rotary tube adapters |
| **AutoDrape Systems** | Integrated vacuum system to remove air from sterile drape for fast and easy draping |

SOMA TECH INTL • 166 HIGHLAND PARK DRIVE • BLOOMFIELD, CT 06002 • USA
PHONE: 1.800.GET.SOMA • WWW.SOMATECHNOLOGY.COM • EMAIL: SOMA@SOMATECHNOLOGY.COM

Revised 10/6/2020

# Specifications

| | |
|---|---|
| **Illumination System** | Superlux 330 light source with two 300 W Xenon daylight character lamps<br>Integrated light source and light guide<br>Integrated two-way illumination brightens shadows<br>Variable spot illumination, minimum diameter 10 mm<br>Semi-automatic lamp exchange<br>Display of remaining lamp life on Touchscreen<br>Brightness regulation via handgrips<br>Magnification dependant automatic brightness adjustment<br>Synchronized camera flash system |
| **AutoBalance** | AutoBalance of the microscope, suspension system or entire system by pushing a button<br>Microscope AutoBalance independent of position or accessories |
| **Hospital Workflow Integration** | Varioskop, apochromatic, 200–500 mm working range<br>Internal, motorized, continuous adjustment<br>Magnification linked adjustment of focus speed<br>High-speed laser autofocus, accurate to +/- 0.5 mm (Class II Laser)<br>Visual focusing aid with two converging laser spots<br>Working distance displayed on touchscreen and in the ocular (on demand)<br>User specific start position |
| **MultiVision System** | LAN interface and modem<br>Microphone and speaker<br>Patient data management allowing archival of image, video and audio data<br>Service file<br>Remote service interface |

SOMA TECH INTL • 166 HIGHLAND PARK DRIVE • BLOOMFIELD, CT 06002 • USA
PHONE: 1.800.GET.SOMA • WWW.SOMATECHNOLOGY.COM • EMAIL: SOMA@SOMATECHNOLOGY.COM

Revised 10/6/2020