**Technical data**

**OPMI LUMERA 700 from ZEISS**

**ZEISS OPMI LUMERA 700**

**Surgical microscope**
- Motorized zoom system with apochromatic lens, zoom ratio 1:6
- Magnification factor = 0.4 x – 2.4 x
- Focusing: electric / motorized, focus range: 70 mm
- Objective lens: f = 200 mm (optionally also f = 175 mm or f = 225 mm with support ring)
- Binocular tube: Invertertube E (optionally also Invertertube, 180° swivel tube, f = 170 mm, inclined tube, f = 170 mm)
- Wide-angle eyepiece 10 x (optionally also 12.5 x)

**Light source**
- SCI: Coaxial and full-field illumination
- Fiber-optic illumination Superlux® Eye:
  - Xenon short arc reflector lamp with HaMode filter
  - Backup lamp in lamp housing, can be slid into position manually
- LED fiber-optic illumination:
  - Near-daylight color temperature
  - 50,000 hour lifetime at 50% light intensity
  - HaMode filter
  - 25% gray filter
- For all light sources:
  - Blue blocking filter
  - Optional: Fluorescence filter

**Integrated slit illuminator**
- Slit widths: 0.2 mm, 2 mm, 3 mm, 4 mm
- Slit height: 12 mm

**XY coupling**
- Travel range: max. 61 mm x 61 mm
- Automatic centering at the touch of a button

**Video monitor**
- 22" LCD display
- Resolution: 1,680 x 1,050

**Stand**
- Maximum permissible weight load of the spring arm:
  - When the surgical microscope is attached to the arm (without tube, eyepiece or objective lens) and the XY coupling is also attached, a maximum of 9 kg of additional accessories can be attached to the spring arm

**ZEISS intraoperative OCT**
- OCT engine
  - SD (spectral domain) OCT
    - Wavelength 840 nm
    - Scanning speed 27,000 A-scans per second
- Scan parameters:
  - A-scan depth: 2.9 and 5.8 mm in tissue
  - Axial resolution: 5.5 µm in tissue
  - Scan length adjustable 3–16 mm
  - Scan rotation adjustable 360°
  - Scan modes for live and capture acquisition:
    - Live:
      - 1-line
      - 5-lines
      - Cross hair
    - Capture:
      - 1-line
      - 5-lines
      - Cube

**ZEISS RESIGHT family**
- Mechanical data
  - Focus range with LH175 lens holder: 31 mm (position of intermediate image)
  - Focus range with LH200 lens holder: 38 mm (position of intermediate image)
  - Rotation angle of lens revolver and holder: 0°–360°
- Lenses included: 60D, 128D

**Weight**
- ZEISS RESIGHT 500 (manual): 0.45 kg
- ZEISS RESIGHT 700 (motorized): 0.50 kg

**ZEISS CALLISTO eye panel PC**
- Touch screen: Projected Capacitive Touch (PCT) with anti-reflective coating, scratch-proof
- Processor: Intel® Core i5 6442EQ 1.9 GHz
- Hard drive: SSD for operating system, SATA HDD 1 TB for data
- Display: Integrated 24" color flat screen with high luminosity and wide viewing angle
- Video signals:
  - PAL 576/50; NTSC 480/60, 1080/50, 1080i60
  - Only possible with camera models from Carl Zeiss Meditec AG
- Ports:
  - 1 x CAN-Bus, 2 x 1: Gigabit Ethernet, 5 x USB 3.0, 1 x potential equalization
- Video input:
  - 1 x Y/C, 1 x HD-SDI
- Video output:
  - 2 x HDMI
- Connectivity:
  - Integrated RJ45 10/100Base-T Ethernet port for connection to ZEISS OPMI LUMERA 700 and hospital network
- Weight: ca. 10 kg

**ZEISS CALLISTO eye software**
- Version: 3.6