When you achieve precise\(^1\) results fast\(^2\).

**ZEISS Cataract Suite** markerless

CALLISTO eye from ZEISS

Computer assisted cataract surgery
**ZEISS CALLISTO eye touchscreen monitor**

**Temperature range** +10°C to +35 °C (+50°F to +95°F)

**Scratch-proof**

**Processor**
Intel® Core i7 620M 2.66GHz

**Hard drive**
SATA, 500 GB

**Display**
Integrated 22" color flat-screen with high luminosity and wide viewing angle

**Video signals**
PAL 576i50; NTSC 480i60; 1080i50; 1080i60

Full functionality and usability in conjunction with ZEISS CALLISTO eye is only possible with camera models from Carl Zeiss Meditec AG

**Ports**
1× CAN-Bus, 1× RS232, 2 × 1Gigabit Ethernet, 5 × USB2.0, 1 × potential equalization

**Video input**
1× Y/C, 1× HD-SDI

**Video output**
1× VGA, 2 × HDMI

**Connectivity**
Integrated RJ45 10 / 100Base-T Ethernet port for connection to ZEISS OPMI LUMERA 700 and hospital network

**Power supply**
Integrated fanless 150 W medical power supply

**Weight**
14 kg

**Supported languages**
German, English, French, Italian, Spanish, Japanese, Finnish, Danish, Norwegian, Swedish, Portuguese/Brazilian, Russian, Dutch

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**Convenient Documentation**

For high quality videos and photos

- HD video recording
- Including assistance functions overlay

**Compatibility**

Which product works with which CALLISTO eye function

**HD video recording including assistance functions overlay**

**Connectivity**
Reserve patient data (DMWL) electronically to avoid spelling errors and to save time. Archive all videos and photos in ZEISS FORUM via DICOM to make them accessible from anywhere in the hospital.

- A better overview
  - Live video is shown full screen so that the operating team can easily follow the course of the surgery.

**Compatibility**

Which product works with which CALLISTO eye function

- ZEISS CALLISTO eye touchscreen monitor

**Compatibility with ZEISS CALLISTO eye functions**

**ZEISS OPMI LUMERA 700 with ZEISS CALLISTO eye**

**ZEISS OPMI LUMERA family**

with EDIS

<table>
<thead>
<tr>
<th>Function</th>
<th>ZEISS OPMI LUMERA 700 with ZEISS CALLISTO eye</th>
<th>ZEISS OPMI LUMERA family with EDIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD video recording</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Monitoring options</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>- Four slot of the ZEISS surgical microscope</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>- Ceiling unit</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>- Wheelstand</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>- Table stand</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Full functionality via computer or control panel</td>
<td>✔</td>
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<td>Video frame as a guide in full extent</td>
<td>✔</td>
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<td>Active functions in the microscope</td>
<td>✔</td>
<td>✔</td>
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<td>1 x VICI, 2 x HD-SDI</td>
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<td>✔</td>
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<tr>
<td>1 x HDMI</td>
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<td>✔</td>
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<tr>
<td>Pupiltracing</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>1 x VGA, 2 x HDMI</td>
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<tr>
<td>German language</td>
<td>✔</td>
<td>✔</td>
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<td>✔</td>
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</tr>
</tbody>
</table>

**Technical Data**

**ZEISS CALLISTO eye touchscreen monitor**

**Touchscreen**
Infrared touch (IR) with infrared transceivers
Resolution: 640 x 480 px, 16:9 aspect ratio, 600,000 cycles

**Processor**
Intel® Core i7 620M 2.66GHz

**Hard drive**
SATA, 500 GB

**Display**
Integrated 22" color flat-screen with high luminosity and wide viewing angle

**Video signals**
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**Ports**
1× CAN-Bus, 1× RS232, 2 × 1Gigabit Ethernet, 5 × USB2.0, 1 × potential equalization

**Video input**
1× Y/C, 1× HD-SDI

**Video output**
1× VGA, 2 × HDMI

**Camera board**
Integrated 800 x 600 resolution 5 million pixel for connection to ZEISS OPMI LUMERA 700 and hospital network

**Power supply**
Integrated fanless 150 W medical power supply

**Weight**
14 kg

**Supported languages**
German, English, Italian, Finnish, Spanish, Japanese, Tamil, Hungarian, Russian, Dutch

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ZEISS CALLISTO eye

For a streamlined workflow

ZEISS CALLISTO eye works as one with the ZEISS OPMI LUMERA family of surgical microscopes. View all assistance information in your surgical field and control ZEISS CALLISTO eye from the foot control panel of the surgical microscope. The connection with ZEISS FORUM and the ZEISS IOLMaster 500 or 700 provides you seamless access to diagnostic reports of your patients in the OR. The flexible mounting options allow you to integrate ZEISS CALLISTO eye into your OR environment and with your team for a streamlined cataract workflow.

ASSISTANCE FUNCTIONS

- Precise1 markerless alignment of toric IOLs:
  • Z ALIGN® from ZEISS (toric assistant)
  • Support to ensure treatment of correct eye and patient
  • Center the IOL along the visual axis of the patient
  • Perform a precisely shaped and sized capsulorhexis
  • Create incisions where and of the size you had intended
  • View the assisting information in the eyepiece
  • Control the ZEISS CALLISTO eye from the foot control panel of the surgical microscope or handgrips of the OPMI LUMERA® family of surgical microscopes
  • Get the report from IOLMaster® 500 or 700 from ZEISS with all relevant biometry data available for review in the OR
  • Ergonomic and comfortable for the surgeon and the OR staff
  • HD video recording and photos that include the assistance functions meet even the most demanding requirements in quality management, teaching and for presentations
  • Import patient lists via a network connection and DICOM modality worklist or USB stick
  • Export videos and photos via a DICOM network connection or USB stick
  • OR team can easily follow surgery progress with the full screen video

PERFECT INTEGRATION

- View the assisting information in the eyepiece
- Control the ZEISS CALLISTO eye from the foot control panel or eyepiece of the OPMI LUMERA® family of surgical microscopes from ZEISS
- Get the report from IOLMaster® 500 or 700 from ZEISS with all relevant biometry data available for review in the OR
- Ergonomic and comfortable for the surgeon and the OR staff

CONVENIENT DOCUMENTATION

- HD video recording and photos that include the assistance functions meet even the most demanding requirements in quality management, teaching and for presentations
- Import patient lists via a network connection and DICOM modality worklist or USB stick
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- OR team can easily follow surgery progress with the full screen video

ZEISS Cataract Suite markless

For precise1 markerless toric IOL alignment

1. Clinical data of Prof. Findl / Dr. Hirnschall presented at ESCRS 2013 – technically verified pre-/intraoperative matching precision ± 1.0° in mean
2. Study of Dr. Wolfgang Mayer at LMU, Munich, Germany. Data on file
5. OPMI LUMERA 700, OPMI LUMERA 6, OPMI LUMERA L, OPFMI LUMERA
6. Or other compatible ZEISS systems

Data Injection Systems

- For maximum comfort, all assistance functions can be projected in the eyepiece of your surgical microscope.
- Both data injection systems – IDIS* for ZEISS OPMI LUMERA 700 and EDIS** for all other ZEISS OPMI LUMERA family surgical microscopes – are protected from being knocked out of alignment.
- The high-resolution, high-contrast color image allows you to work stress free and ergonomically.

ZEISS CALLISTO eye

Precise1,2 premium IOL surgery made easy

Computer assisted cataract surgery with CALLISTO eye from ZEISS makes precise1,2 premium IOL surgery fast and easy. It helps you meet patient expectations today and tomorrow with assistance functions projected directly in your surgical field.
**Assistance Functions**

**For surgical precision**

- **Incision / LRI assistant**
  Superimpose the exact position and size of your incisions to ensure precise surgery.

- **Rhexis assistant**
  Superimpose the exact shape and size of the capsulorhexis and center the IOL along the optical axis of the patient eye.

- **K TRACK®**
  Visualize corneal curvature in combination with a keratoscope, e.g. in corneal transplantations.

- **Z ALIGN – toric assistant**
  Inject reference and target axis in your microscope eyepiece to ensure precise toric IOL alignment without corneal markers.

In addition, ZEISS CALLISTO eye is equipped with automated eye tracking, ensuring that the position of the superimposed assistance functions are properly positioned on the eye.

ZEISS CALLISTO eye facilitates your premium IOL surgeries. The assistance functions are injected directly into the eyepiece of your ZEISS OPMI LUMERA family surgical microscope, providing improved ergonomics without distraction from the surgical field.