




**SEILER**  
MEDICAL

**Dental Microscope Competitors**

2023



**Zeiss**

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**Zeiss**

- Founded in 1846
- Based in Germany




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**Zeiss**

**Extaro 300 Specs**



- Manual 5-step apochromatic magnification changer
- 12.5x widefield eyepieces or 10x wide-field eyepieces
- 180° tiltable tube
- Varioskop 230, working distance 200 - 430 mm
- Illumination System TriLED, 5500 K
- LightBoost – Xenon equivalent light intensities<sup>1</sup>
- Orange Color Mode, Green Color Mode
- Optional Fluorescence Mode
- Ergonomic handgrip
- Mode Control Single finger adjustable illumination, focus and SpotLight (motorized aperture control)
- Essential: Integrated HD camera with recording on USB; HDMI output OR
- Complete: Integrated HD camera with recording on USB or wireless recording to the ZEISS Connect App; network integration available for archiving purposes; HDMI output
- DICOM
- Adapter for digital cameras (Full-frame or APS-C)
- Ergonomics
- Foldable Tube f170 / f260 including the PROMAG function boosts to 150 % magnification for a detailed view


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## Zeiss – Spec Comparison

<p><b>Seiler Air Series</b></p> <ul style="list-style-type: none"> <li>• 3 or 6 steps of magnification</li> <li>• 2.8x-40x magnification</li> <li>• 10x, 12.5x, or 16x eyepieces</li> <li>• Straight or 0-220 binoculars</li> <li>• 198-455mm Variofocus</li> <li>• 150,000 LUX LED</li> <li>• HD, 4K, DSLR, GoPro</li> <li>• EMR Network Capabilities</li> <li>• Red-free, composite, and white filters</li> </ul>	<p><b>Extaro 300</b></p> <ul style="list-style-type: none"> <li>• Manual 5-step apochromatic magnification changer</li> <li>• 12.5x or 10x widefield eyepieces</li> <li>• 180° tiltable tube</li> <li>• Varioskop 230, working distance 200 - 430 mm</li> <li>• Illumination System TriLED, 5500 K</li> <li>• Mode Control: Single finger adjustable illumination, focus and SpotLight (motorized aperture control)</li> <li>• Essential: Integrated HD camera with recording on USB; HDMI output OR</li> <li>• Complete: Integrated HD camera with recording on USB or wireless recording to the ZEISS Connect App; network integration available for archiving purposes; HDMI output</li> </ul>
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# Global

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## Global

- Based in St. Louis, MO
- Making microscopes since 1994
- Not ISO 13485
- Quote from website: "Headquartered in St. Louis, Missouri, Global Surgical is the only U.S. manufacturer of surgical microscopes." FALSE








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## Global

### A-Series Specs

- 3 options of magnification to choose from: A3, A4, or A6
- Axis™ Control System—delivers magnification changer, control handles, and tension controls all in one place
- Brightest LED light source available—100,000 lux
- Ergonomic handles with integrated magnification changer
- Eyepieces available in 10x
- Three-stage filter assembly: clear, UV and green
- More mounting options than any other brand
- Limited Lifetime Warranty


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## Global – Spec Comparison

<p><b>Seiler Air Series</b></p> <ul style="list-style-type: none"> <li>• 3 or 6 steps of magnification</li> <li>• 2.8x-40x magnification</li> <li>• 10x, 12.5x, or 16x eyepieces</li> <li>• Straight or 0-220 binoculars</li> <li>• 198-455mm Variofocus</li> <li>• 150,000 LUX LED</li> <li>• HD, 4K, DSLR, GoPro</li> <li>• EMR Network Capabilities</li> <li>• Red-free, composite, and white filters</li> </ul>	<p><b>A-Series</b></p> <ul style="list-style-type: none"> <li>• 3, 4, or 6 steps of magnification</li> <li>• 2.1x-19.2x magnification</li> <li>• 100,000 LUX LED Light</li> <li>• 10x Eyepieces</li> <li>• 3 mounting options: Wall, Ceiling, Mobile Floor</li> </ul>
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**Zumax**

**SEILER**

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## Zumax

- Founded in 2005
- Based in China

<https://www.zumaxmedical.com/>

**zumax**

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## Zumax

### OMS3200 Dental Microscope

- BriPlus illumination system –105,000 lux
- 0 – 180° inclinable binocular head
- 12.5x magnification eyepieces with an optional target reticle
- Motorized magnification of 1.8x to 20x
- VarioDist® objective lens with a variable working distance of 200 – 450mm
- SmartMon LCD display, showing current working distance, zoom factor, magnification, measurement factor, LED brightness
- Back up light source guards against the accidental shutdown of the main LED – 200,000 Lux
- Integrated yellow and green filter with 4 illumination spot sizes
- Optional integrated laser filters
- Integrated full HD camera system supported by multiple shooting methods by wireless control set or photo/ video button
- Micro 3D twin full HD 1080P camera system available as an option
- Fluo-Det fluorescent module option available

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## Zumax – Spec Comparison

<p><b>Seiler 3D</b></p> <ul style="list-style-type: none"> <li>• 3 or 6 steps of magnification</li> <li>• 2.8x-40x magnification</li> <li>• 10x, 12.5x, or 16x eyepieces</li> <li>• Straight or 0-220 binoculars</li> <li>• 198-455mm Variofocus</li> <li>• 150,000 LUX LED</li> <li>• HD, 4K, DSLR, GoPro</li> <li>• EMR Network Capabilities</li> <li>• Red-free, composite, and white filters</li> </ul>	<p><b>OMS3200 Dental Microscope</b></p> <ul style="list-style-type: none"> <li>• 1.8x-20x magnification</li> <li>• 200-450mm Objective</li> <li>• Integrated HD recording system; 3D camera optional</li> <li>• Anti-reflective, German apochromatic lenses</li> </ul>
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**CJ Optik**

**SEILER**

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## CK Optik

- Based in Germany

made in Germany

**J OPTIK**  
Mikroskope in Medizin & Technik

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## CJ Optik

### Flexion Advanced

- High intensity, fanless, and colour corrected LED light source provides brilliant (5500k) white light
- 5-step apochromatic magnification changer 0,4/0,6/1/1,6/2,5;
- Beam Splitter with 30 degree incline and rear photo tube port
- High Definition photo-tube camera adapter for all major camera brands
- An incredible VarioFocus lens with a 200mm-350mm working distance
- Our 0-200 degree inclinable binocular tube offers a huge range of vertical flexibility for comfortable positioning;
- HDMI, USB, camera AC/DC power and medical grade monitor power supplies are integrated into the arm
- Built-in orange composite filter
- The Flexion's rotation plate allows the user to remain in an upright and ergonomic position (head upright to the binoculars) whilst the microscope is angled right or left
- Ergonomically placed control knobs and handles ensure that all functions are immediately at your fingertips for all inter-procedure changes

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## CJ Optik – Spec Comparison

### Seiler Air Series

- 3 or 6 steps of magnification
- 2.8x-40x magnification
- 10x, 12.5x, or 16x eyepieces
- Straight or 0-220 binoculars
- 198-455mm Variofocus
- 150,000 LUX LED
- HD, 4K, DSLR, GoPro
- EMR Network Capabilities
- Red-free, composite, and white filters

### Flexion

- 5-step apochromatic magnification changer
- 0-220 head
- 200-350mm VarioFocus
- 5500K LED light
- HD and DSLR Camera options

