OPMI pico
Patient care in focus

Also available with integrated Full HD Camera!
Enhance patient outcomes

Microscope technology from Carl Zeiss makes detail and fine structures clearly visible, enabling you to visualize high-contrast, true-color images. Most importantly: Better vision is the key to improving the quality of the diagnosis and the treatment.

**Designed for today’s practice. OPMI pico.**

OPMI® pico is a compact, high-performance, easy-to-use microscope. In addition to its ergonomic design, it features many innovative functions for high-quality diagnosis and treatment. Complete integration of cables, light source, light guide, video camera and control console is a practical design decision that allows OPMI pico to complement the overall image of your practice while eliminating interference with your work. The integrated video camera option for OPMI pico facilitates one-touch, on-demand documentation essential to the communication process with both patients and staff during treatment.

Carl Zeiss is renowned for its optics. With apochromatic coatings, more light is transferred to the viewer’s eye, ensuring good image resolution, contrast and depth perception. The result is true-color images.

The integrated product design reflects the high quality of the optics, and is part of the many functions that Carl Zeiss delivers with OPMI pico.

*Endodontics picture courtesy of:
Dr. Bijan Vahedi, Augsburg, Germany*
OPMI pico is a true advancement in the prevention of neck strain and back problems. Experience it for yourself: A microscope makes it possible to work in a comfortable and ergonomically optimal position.

The five-step magnification changer delivers brilliant images – from an overview of the working field down to fine details. No matter what your region of interest may be, you sit upright at all times.

Objective lenses with focal lengths of 200 mm, 250 mm and 300 mm are available to match the microscope to your personal working distance.

The ergonomically designed grips fit securely in your hands, enabling you to easily place OPMI pico in the desired position.

The tiltable tube 180° allows you to work in comfort.
An ergonomic breakthrough

The Foldable Tube f170/f260* combines brilliant apochromatic optics and a unique design for maximum visualization flexibility. It allows dentists a broad range of comfortable working positions, magnification potential and positioning ergonomics – even at extreme treatment approach angles.

Greater comfort
The Foldable Tube f170/f260 introduces a new level of comfort:

Rotate the tube conveniently without moving the microscope head using the integrated 360° rotation function. No need for external rotating adapters while also reducing build height.

Work ergonomically by reducing or increasing the distance to the required treatment field thanks to the patented multi-link design.

The Foldable Tube f170/f260 allows an almost unlimited variety of working positions, providing optimal ergonomics and personalized positioning throughout each treatment. With its long reach, this highly flexible system easily accommodates different ergonomics of the operator and different positions of the patient.

Greater detail
Instantly yield a 50% magnification gain for delicate and detailed procedures with the integrated PROMAG™ function.

Choose between optimum magnification and maximum field of view with a quick turn of the knob.

1.), 2.), 3.) Easily adjust angle, length and height as needed

* f170: focal length of 170 mm like the tiltable tube
f260: focal length of 260 mm provides additional 50% magnification (PROMAG)

PROMAG for additional 50% detail magnification. Endodontics picture courtesy of: Dr. Bijan Vahedi, Augsburg, Germany
Create more trust

A picture is worth a thousand words. Explain your diagnosis, treatment and results to the patient to ensure a thorough understanding of the benefits of the procedure. Through your step-by-step explanation, you foster a higher level of trust between you and your patient. After all, seeing is believing.

OPMI pico provides all the necessary options needed to carry out effective communication, including the digital MediLive® solutions that enable you to document your work using videos and photos. There are also MediLive systems to edit, archive and present your work, allowing for easy presentation to a group of colleagues or to a referrer.
OPMI pico is a compact microscope that fits into your practice workflow. It is characterized by its elegant form, which was honored with the red dot award for its design quality and very easy-to-use functions. Simply plug in the cable and OPMI pico is ready for use. There are no exposed cables or external components to interfere with your work. All functional elements such as the video control console, video camera, cables, light sources, and light guides have been completely integrated into the microscope.

Integrated Full HD 1080p video camera (optional)
Full HD video camera with 1920x1080 pixels for good image definition and differentiation of detail. Color fidelity ensures natural color rendition. The integrated HD camera is immediately ready for action after the microscope has been switched on. Full HD technology guarantees convenient co-observation and documentation. Camera integration simplifies cleaning of the microscope housing.

The light guide and the power cable are integrated
No hanging cables to interfere with your work.

Integrated light source with swing-in backup lamp module
You have the choice of halogen or xenon illumination. Xenon has a light temperature characteristic of natural daylight.

Integrated video control console
Intuitive system adjustments allow you to fine-tune the video image.

For more integration

red dot
The design focus during development of OPMI pico was extreme functionality. The microscope is precisely tailored to the needs of dentistry. There are numerous functions designed to support your comfort in every phase of treatment. Everything can be intuitively operated from the user’s position without ever having to divert your attention from the field of treatment.

The optical system of OPMI pico offers magnifications finely tuned to each other, continuous brightness adjustment and a fine focusing feature.

**MORA Interface – ease of motion**

The MORA Interface enables you to easily and precisely move OPMI pico into the desired position. You will be impressed not only by the extremely smooth operation of the MORA Interface, but also by the upright viewing position that remains constant regardless of the angle of the microscope. This allows you to remain in a comfortable position at all times without taking your eyes off the patient.
The 180° tiltable tube
Allows you to work in comfort in a variety of positions and on difficult-to-reach areas. Your back will thank you – particularly during longer procedures.

Wide-field eyepieces (12.5x or 10x)
Large field of view with 3-D, stereoscopic image. Special diopter settings also make them suitable for eyeglass wearers.

5-step magnification changer
Matched magnifications for high image quality – from an overview of the working field to fine details.

Fine focusing
Adjust the focus to your personal needs.

Continuous brightness regulation at your fingertips
Allows you to easily adjust the light intensity.

Focusing objective lens
Easy operation for both left and right-handed users. A variety of working distances is available.
For more possibilities

The large selection of accessories enable you to tailor OPMI pico to your requirements. Everything is as easy and intuitive to operate as the microscope itself.

Ergonomic design and operating comfort

Foldable Tube f170/f260
With PROMAG enabling a 50% magnification gain on demand.

Angled optics and tube dovetail
For a comfortable position during work on difficult-to-reach areas.

Digital visualization

HD video camera
Full HD (integrated).

MediLive Primo 1 CCD video camera (integrated).

MediLive Primo Digital Interface 1 CCD video camera (integrated).
### Optics and illumination

- **Orange filter**
  Prevents premature curing of composite materials.

- **Double iris diaphragm**
  For the right depth of field.

- **Xenon or halogen illumination**
  Includes integrated backup lamp module.

- **Continuous brightness control**
  Adjustment at your fingertips.

- **Foot control panel**
  For convenient navigation and storage of images.

- **VisionGuard® Drape**
  Helps to ensure sterile work environment.

- **Sterilizable caps and hand-grip drapes**
  For asepsis.

- **Adapter** for a SLR (single lens reflex) camera.

- **FlexioStill™**
  Adapter for digital cameras.

- **FlexioMotion™**
  Adapter for digital camcorders.
OPMI pico by the numbers
Technical specifications

**OPMI pico microscope**

| Magnification system | - Manual apochromatic magnification changer  
|                      | - Five click stop positions: y = 0.4x, 0.6x, 1.0x, 1.6x, 2.5x  
| Tubes | - 45° inclined binocular tube, f = 170 mm  
|       | - 0° – 180° tiltable binocular tube; f = 170 or f = 200 mm (optional)  
|       | - Foldable Tube f170/f260, including PROMAG function for additional 50% magnification and integrated rotate function (optional)  
| Eyepieces | 12.5x and 10x wide-field eyepieces, also suitable for eyeglass wearers  
| Magnification range | Example with f = 250 mm lens and 12.5x eyepiece. Magnification/Field-of-view diameter:  
|                   | 3.4x  5.1x  8.5x  13.6x  21.3x  
|                   | 65 mm  43 mm  26 mm  16 mm  10 mm  
| Focusing | - Manual focusing, focusing range 13 mm  
|           | - 3 focusing lenses available: f = 200 mm, f = 250 mm, f = 300 mm, interchangeable  
| Microscope mount, mobility | Microscope body adapted to S100 suspension systems via  
|                           | - 120° coupler  
|                           | - MORA Interface (optional):  
|                           | - Mechanical Optical Rotating Assembly  
|                           | - Rotatable coupling for OPMI pico with +/-25° rotational range  
|                           | - Integrated, swing-in angular stop to increase depth of field  
|                           | - Patented, n. Dr. Assad F. Mora  
|                           | - Protected by EP Patent No. 1420280  
|                           | Handgrips: 4 versions  
| Additional optics | Angled optics with tube dovetail (optional)  
|                   | Double iris diaphragm to increase the depth of field (optional)  

**Illumination systems**

- Integrated coaxial cold-light illumination  
- Control knob to adjust brightness directly above the viewing tube  
- Easy-to-reach, swing-in orange filter for composite materials  
- Integrated 12V 100W halogen illumination with 2 halogen reflector lamps in the quick-change module  
- Integrated 12V 180W xenon illumination with daylight characteristic including 2 xenon lamps in the quick-change module (optional)

**Electrical data**

| Rated voltage | 115 VAC (100…120 VAC ± 10%); 230 VAC (220…240 VAC ± 10%)  
| Power consumption, halogen illumination | 115 VAC max. 2.0 A; 230 VAC max. 1.0 A  
| Power consumption, xenon illumination | 115 VAC max. 5.0 A; 230 VAC max. 2.5 A  
| Rated frequency | 50…60 Hz  
| Fuses, halogen illumination | 115 VAC T 6.3 A/H 250 V; 230 VAC T 3.15 A/H 250 V  
| Xenon illumination | Automatic circuit breaker  

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### Integrated video camera (optional)
- Immediately ready for use

| HD video camera | - Full HD (1080p) or HD (720p)  
|                | - Application-specific image optimization  
|                | - Immediately ready for action  
|                | - Integrated electrical zoom function  
| Outputs:       | - HDMI, DVI via adapter cable (1080p/720p)  
|                | - YPbPr (analog component output 720p /1080i)  
|                | - VBS (composite), video standard: PAL/NTSC  

| MediLive video control unit (SD) | - Functioning and ready for use at any time  
|                                 | - Freeze function for capturing still shots  
|                                 | - Image rotate  
|                                 | - Customizable user settings  
|                                 | - Video standard: PAL/NTSC  
|                                 | - Ports: Y/C (S-Video) and VBS (composite)  

| MediLive video control unit, digital (SD) | In addition to the above-mentioned functions of the integrated SD video camera, video camera with digital interface offers following outputs:  
|                                            | - Connected storage medium: USB 2.0  
|                                            | - Digital video output: DV (IEEE 1394)  

| Accessories to attach external cameras | - Splitters:  
|                                         | • Angled optics with left and right documentation ports, optional with tube dovetail  
|                                         | • Beam Splitter 20 with documentation ports  
|                                         | • Beam Splitter 50 with documentation ports  
|                                         | • MORA Interface with documentation port  
| - Adapters:                             | - Video lens with C-mount interface for the attachment of external video cameras  
|                                         | - Lens to attach external digital cameras  

### Accessories
- Splash protection for the objective lens
- VisionGuard drapes for sterile work
# OPMI pico

## Technical specifications

### Suspension systems

<table>
<thead>
<tr>
<th>System</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S100 carrier system</td>
<td>Matched to a weight capacity of 2.5 to 7 kg</td>
</tr>
<tr>
<td>S100 floor stand</td>
<td>- Mobile solutions for the practice</td>
</tr>
<tr>
<td></td>
<td>- Dimensions of base: 650 x 625 mm</td>
</tr>
<tr>
<td>S100 wall mount</td>
<td>The space-saving alternative for small rooms</td>
</tr>
<tr>
<td>S100 ceiling mount</td>
<td>Creates free space around the treatment chair</td>
</tr>
<tr>
<td>S100 Centro mount</td>
<td>For space-saving integration into the office</td>
</tr>
</tbody>
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