EyeMag Loupes
Seeing is believing
EyeMag Medical Loupes
Precision at first sight

EyeMag® Medical Loupes from Carl Zeiss combine high-quality optics with a sophisticated design. Precision optics ensure clear visualization of anatomical micro-structures. The result: increased efficiency and elevated levels of care. The large selection of working distances and magnification levels enable you to select the right loupes for your specific application needs. This product offering flexibility allows you to always work in an ergonomic and comfortable position, resulting in reduced fatigue and eyestrain. In addition to their elegant and functional design, EyeMag loupes are intuitive and easy to use.

The EyeMag product line was developed in close cooperation with surgeons, ensuring a solution that is efficient, reliable, and comfortable for everyday use.
EyeMag Loupes
Focus on excellence

EyeMag Smart
More than meets the eye

With a 2.5x magnification, EyeMag Smart loupes are ideal for applications where a large field of view is a requirement. See the whole picture with stunning detail. Its intuitive operation makes EyeMag Smart particularly attractive for first-time users and where fast and easy operation counts.

EyeMag Pro F and EyeMag Pro S
Professional optics for higher visualization standards

EyeMag Pro is the loupe of choice for those medical professionals with high magnification requirements. The magnification levels of the optical systems range from 3.2x to 5x. Two carrier system options are available: titanium eyeglass frame (F) or comfortable headband (S).

EyeMag Light and Schott fiber optic cold-light source
Visualize the details in the right light

Carl Zeiss light sources are optimally designed for EyeMag loupes. They illuminate the surgical field with exceptional quality and ensure maximum detail recognition and high contrast. The mobile and lightweight design of the EyeMag Light LED light source ensures maximum wearing comfort and freedom of mobility. The Schott fiber optic cold-light illumination system for EyeMag Pro S is an alternative for more demanding illumination needs.
EyeMag Smart
See the whole picture with stunning detail

With 2.5x magnification, EyeMag Smart loupes provide large fields of view, enabling you to always see the whole picture. Choose from five configurations ranging from 300 to 550 mm depending on your individual working distance. The loupe system, delivered on a lightweight titanium eyeglass frame, is easy and intuitive to operate, making it particularly attractive to first-time users.

**Outstanding optics with an elegant design**
The outstanding optical quality of EyeMag Smart loupes delivers precise images with excellent image quality and color fidelity extending to the peripheral zones. Excellent depth of field ensures clear visualization of anatomical structures in deep-lying channels. The large fields of view provide an optimized view of the working area. In addition to outstanding optical quality, the compact loupes feature an attractive, modern design.

- **Flip-up function**
  Unobstructed vision and eye contact with your patients with a single adjustment

- **Optics mount**
  Easy attachment and removal of the optical system

- **Soft nose bridge**
  Comfortable fit and maximum wearing comfort

- **Telescopic rail**
  Position the eyepieces in seconds with a single adjustment

- **High-quality surface**
  Resistant to standard disinfectants

- **Full anti-reflective lens protection**

- **Optical systems**

- **Adjustment of eyepiece tilt**
  Fast adjustment to any desired viewing angle – even in extreme treatment positions

- **Lens protection device**
  Shields the objective lens against tissue debris for increased protection. Features high-quality, scratch-proof ZEISS AR coating

- **Titanium eyeglass frame**
  Neutral lenses that protect against splashes and particles. Prescription lenses can be integrated at any time. Side shields can also be attached.

- **Setting the interpupillary distance (PD)**
  Fast binocular setting of your personal PD
Ready for patients in seconds
The range of tilt and angle of declination settings makes EyeMag Smart loupes particularly quick and intuitive to operate. The loupes can be adjusted to meet your treatment needs in a matter of seconds. You can position the distance of the eyepieces and change the tilt angle quickly and easily with a single adjustment. The flip-up function facilitates unobstructed vision and eye contact with the patient, enabling you to concentrate on what is most important: the treatment of the patient.

Perfectly matched – work in comfort
EyeMag Smart loupes can be quickly adjusted to the requirements of the treatment position. This flexibility permits you to always achieve a comfortable, correct seated position allowing you to work ergonomically, preventing back and neck pain. The choice of five working distances facilitates the ideal loupes configuration for your individual requirements. The comfortable titanium eyeglass frame, with soft nose bridge and elastic headband, ensures a proper fit with maximum wearing comfort.

<table>
<thead>
<tr>
<th>EyeMag Smart</th>
<th>Working distance (mm)</th>
<th>300</th>
<th>350</th>
<th>400</th>
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<tbody>
<tr>
<td></td>
<td>Working distance (inch)</td>
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<td>14</td>
<td>16</td>
<td>18</td>
<td>22</td>
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<tr>
<td></td>
<td>Magnification</td>
<td>2.5x</td>
<td>2.5x</td>
<td>2.5x</td>
<td>2.5x</td>
<td>2.5x</td>
</tr>
<tr>
<td></td>
<td>Field of view (mm)</td>
<td>67</td>
<td>77</td>
<td>86</td>
<td>96</td>
<td>115</td>
</tr>
</tbody>
</table>
A smart combination
Precision optics and stylish design

The EyeMag Smart sports frame loupes deliver style and functionality. A smart choice when a large field of view is desired, they provide 2.5x magnification and offer the optical excellence and precision you expect from Carl Zeiss.

Style, function and comfort
The curved lens design of the EyeMag Smart sports frame not only gives it a modern look, but also serves to protect the wearer from splash and debris. Lightweight and equipped with an adjustable headband, the sports frame feels as good as it looks. The compact size of the optical system and soft nose pads help ensure comfort even during longer procedures. Like the traditional EyeMag Smart on the titanium frame, the flip-up configuration enables wearers to move the loupe attachment out of their line of sight with a single hand motion for instant eye contact with patients and colleagues.

Outstanding optics
Exceptional image quality and color fidelity give you a clear picture of anatomical structures.

Flip-up function
A simple adjustment enables unobstructed vision and eye contact with others.

Powerful LED light source
The optional EyeMag Light easily attaches to the sport frame to illuminate your view.
On the same wavelength as modern therapies
Detailed vision and optimal protection for laser procedures

Minimally invasive laser therapies are gaining increasing importance in everyday medicine. EyeMag Smart ensures perfect visibility and optimal protection during the procedure. EyeMag Smart Loupes with laser protection offer the high-quality laser protection and optical brilliance you need to perform laser treatment with maximum safety and precision.

The combination of laser protection eyeglasses and eyepiece protection meets all laser safety requirements stipulated by the European standard EN 207.

- Optimal protection*: eyeglass lenses protect the user against wavelengths of diode and Nd:YAG lasers
- Bright filters: for very good color vision
- Curved lenses: prevent lateral incidence of the laser beam

Flexible: If no laser protection is needed, the sports frame with laser protection can simply be replaced with a transparent eyeglass frame from the EyeMag Smart line.

*100% laser protection is only guaranteed if eyepiece protection and laser safety eyewear are used!
More information about laser protection at www.meditec.zeiss.com/EyeMagSmart-laserprotection
EyeMag Pro
An advanced visualization system

EyeMag Pro is the right loupe system for users with higher magnification demands. It is available in a wide range of magnification levels and working distances, enabling you to select loupes tailored to your individual needs. Choose a magnification level from 3.2x to 5x and working distances from 300 to 500 mm. For the carrier system, you can select a titanium eyeglass frame (EyeMag Pro F) or a headband system (EyeMag Pro S).

Capture all the details
The brilliant ZEISS optics integrated into EyeMag Pro F and EyeMag Pro S loupe systems establish new standards in precise vision. EyeMag Pro loupes feature outstanding image quality that generates a high-contrast stereoscopic image, thus enabling you to recognize and differentiate between even the most minute structures. The excellent depth of field permits outstanding depth orientation.

Tailored to your individual needs
You can select the carrier system that fulfills your individual preferences. With the titanium frame, EyeMag Pro loupes offer a carrier system into which prescription lenses can be easily integrated. The soft nose bridge and adjustable headband enable a perfect, comfortable fit. Over longer wearing periods, the headband on the EyeMag Pro S loupes ensures outstanding weight distribution. The personal setting options on the EyeMag Pro F and EyeMag Pro S systems facilitate an ergonomically correct treatment position with every tilt angle.

Flip-up function
Unobstructed vision facilitates eye contact with the patient in seconds

Soft nose bridge
A comfortable fit and maximum wearing comfort

Clamping mechanism
Optimally set the height and tilt of the optical system

Folding bridge
Fast and intuitive adjustment of the PD

Lens protection device
 Shields the objective lens against tissue debris. Features high-quality ZEISS AR coating

High-quality surface
Resistant to standard disinfectants

Optical systems
A wide range of working distances ensures application flexibility for most medical disciplines and accommodates many individual requirements. This comprehensive offering allows you to always work in comfort.

Focus on the patient
The numerous adjustment possibilities on EyeMag Pro loupes let you focus on the patient treatment. The tilt angle can be easily adjusted to the necessary treatment position. The unique optical system on the EyeMag Pro loupes features a folding bridge that allows you to intuitively set your personal interpupillary distance.

EyeMag Pro F and EyeMag Pro S

<table>
<thead>
<tr>
<th>Working distance (mm)</th>
<th>300</th>
<th>350</th>
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<td>12</td>
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<td>20</td>
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<tr>
<td>Magnification</td>
<td>4x</td>
<td>5x</td>
<td>3.6x</td>
<td>4.5x</td>
<td>3.5x</td>
</tr>
<tr>
<td>Field of view (mm)</td>
<td>56</td>
<td>44</td>
<td>71</td>
<td>56</td>
<td>86</td>
</tr>
</tbody>
</table>

Elastic headband
Optimal weight distribution ensures a perfect fit.

Titanium eyeglass frame
Neutral lenses protect against splashes and tissue particles. Prescription lenses and protective side shields can be integrated at any time.

EyeMag Pro S Loupes

1. **Vertical adjustment**
   Fast and easy positioning of the optical system.

2. **Locking lever**
   Optimally set the eyepiece tilt to any desired viewing angle – even in extreme treatment positions.

3. **Washable textile pads**
   Maximum wearing comfort – easy removal and cleaning.

4. **Adjusts to the shape of your head**
   Quick and easy adjustment for individual needs.

5. **Headband system**
   Provides even weight distribution and comfort.
EyeMag Light
Visualize the details in the right light

The extremely compact and mobile LED light source illuminates the surgical field with exceptional quality by ensuring optimal light distribution. The light is easy to use and lightweight for maximum wearing comfort – even during longer procedures.

**Excellent illumination for outstanding image quality**
Ample light in the surgical field plays a key role in precise visualization. Even light distribution, without color gradients, ensures maximum detail recognition and high contrast that results in high-quality images with virtually no fluctuations in brightness. The size of the illuminated field is optimally matched to EyeMag loupes.

**Simple operation for relaxed work**
EyeMag Light is very easy to operate. The light source can be easily affixed to all EyeMag loupes systems. The power supply unit is equipped with a practical belt clip that provides freedom and mobility.

**Added safety and comfort for everyday treatment routines**
EyeMag Light was specifically developed to simplify everyday medical treatment routines. The active, integrated temperature control ensures easy use and wearing comfort – even during long operating periods. An LED control display provides constant information on the status of the power supply unit. A special coating protects the surface of the light source against damage from disinfectants. These intelligent design details for added comfort and safety combine to make EyeMag Light an obvious choice for illumination.
**Fiber optic cold-light illumination**

The alternative light source for EyeMag Pro S

**Illuminate from every angle**
The Schott fiber optic cold-light source, a powerful halogen illumination system, is available for EyeMag Pro S loupes. The halogen light system is a key resource, especially when the demands for illumination intensity increase. Combined with the coaxial illumination system and the flexible liquid light guide, this system provides a very bright, shadow-free, and evenly illuminated field of view. The result: optimal visualization of the surgical field.

1. **Liquid light guide**
   Extremely flexible with outstanding light transmission

2. **Illumination system**
   High-quality ZEISS optics for an evenly illuminated field of view

3. **Schott KL 1500 fiber optic cold-light source**
   Reliable halogen light source with filtered infrared portion

4. **Coaxial illumination**
   Perfect alignment of the illuminated field of view – in any treatment position

**Illumination as required – flexible and mobile**

- **Power cable**
  Flexible for maximum mobility

- **Mobile power supply unit**
  Standard rechargeable batteries and practical belt clip for full freedom of mobility

- **EyeMag Light with EyeMag Pro F Loupes**

- **EyeMag Light with EyeMag Pro S Loupes**

- **EyeMag Light with system carrier, without loupe attachment**

- **Swing-in orange filter attached to EyeMag Light (optional)**

- **The fiber optic cold-light source mounted to the headband system of EyeMag Pro S loupes**
Quickly and easily select the correct loupe design and configuration

Selection of the loupe model

**EyeMag Smart**
- Flip-up loupe system featuring a Galilean design
- 2.5x magnification is suitable for beginners and applications with minor requirements on the magnification
- Large fields of view for optimum visualization of the surgical field
- Easy, intuitive operation – ready for patients in seconds
- Attractive, compact design
- Available with three different carrier systems: EyeMag Smart with titanium eyeglass frame, EyeMag Smart with sports frame and EyeMag Smart with laser protection

**EyeMag Pro F and EyeMag Pro S**
- Flip-up loupe system featuring a Kepler design
- For users with high magnification demands
- Large selection of different models available in different combinations of magnification levels and working distances
- Available with two different carrier systems: EyeMag Pro F with titanium eyeglass frame and EyeMag Pro S with headband system
Measure your working distance

Measure the typical distance from your eyes to the object of interest to determine the preferred working distance.

Select the right combination

Determine the combination of magnification and field of view that is preferred for the selected working distance – the higher the magnification, the smaller the field of view. An overview of all fields of views and magnification levels is available on pages 16/17.
The optical systems –
fields of view (actual size)

The following fields of view are possible depending on the working distance and the desired magnification. These determine the selection of your individual loupes.

<table>
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<tr>
<th>Working distance (mm)</th>
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### EyeMag Pro – optical systems

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</table>
EyeMag loupes
It’s time for a new perspective

**EyeMag Smart**
Flip-up medical loupes with 2.5x magnification on a titanium eyeglass frame

**Standard delivery package of EyeMag Smart with titanium frame**

<table>
<thead>
<tr>
<th>Optical system</th>
<th>Optical system featuring a Galilean design</th>
</tr>
</thead>
<tbody>
<tr>
<td>System carrier</td>
<td>Titanium eyeglass frame</td>
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<tr>
<td>Sizes: S, M, L with elastic headband and soft nose bridge</td>
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</tr>
<tr>
<td>Lens protection device</td>
<td>Shields the objective lens against tissue debris</td>
</tr>
<tr>
<td>Features high-quality, scratch-proof ZEISS AR coating</td>
<td></td>
</tr>
<tr>
<td>Contact guard</td>
<td>Sterilizable to reliably swing loupes up and down</td>
</tr>
<tr>
<td>Side shields for EyeMag Smart</td>
<td>Side protection against splashes and particles</td>
</tr>
<tr>
<td>Soft case</td>
<td>High-quality, shock-proof protection for your loupes and accessories</td>
</tr>
<tr>
<td>Compliance</td>
<td>€€</td>
</tr>
</tbody>
</table>

**EyeMag Pro F**
EyeMag Pro S
Flip-up medical loupes with 3.2x to 5x magnification and titanium eyeglass frame (EyeMag Pro F) or headband system (EyeMag Pro S)

**Standard delivery package of EyeMag Smart with sports frame**

<table>
<thead>
<tr>
<th>Optical system</th>
<th>Optical system featuring a Galilean design</th>
</tr>
</thead>
<tbody>
<tr>
<td>System carrier</td>
<td>Sports frame with elastic headband and soft nosepiece</td>
</tr>
<tr>
<td>Lens protection device</td>
<td>Shields the objective lens against tissue debris</td>
</tr>
<tr>
<td>Features high-quality, scratch-proof ZEISS AR coating</td>
<td></td>
</tr>
<tr>
<td>Contact guard</td>
<td>Sterilizable to reliably swing loupes up and down</td>
</tr>
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</tr>
<tr>
<td>Compliance</td>
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</tr>
</tbody>
</table>

**Standard delivery package of EyeMag Smart with laser protection**

<table>
<thead>
<tr>
<th>Optical system</th>
<th>Optical system featuring a Galilean design</th>
</tr>
</thead>
<tbody>
<tr>
<td>System carrier</td>
<td>Sports frame featuring laser protection and eyepiece protection, with elastic headband and soft nosepiece</td>
</tr>
<tr>
<td>Lens protection device</td>
<td>Shields the objective lens against tissue debris</td>
</tr>
<tr>
<td>Features high-quality, scratch-proof ZEISS AR coating</td>
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</tr>
<tr>
<td>Contact guard</td>
<td>Sterilizable to reliably swing loupes up and down</td>
</tr>
<tr>
<td>Soft case</td>
<td>High-quality, shock-proof protection for your loupes and accessories</td>
</tr>
<tr>
<td>Compliance</td>
<td>€€</td>
</tr>
</tbody>
</table>
**EyeMag Light**
Mobile LED light source with power supply unit.

- **Bulb housing**
  - Powerful and mobile LED light source with integrated temperature control
- **Power supply unit**
  - With standard NiMH batteries and practical belt clip
- **EyeMag Smart adapter**
  - To attach the EyeMag Light illumination source to the EyeMag Smart system carrier
  - Can also be used as a head lamp without an optical system.
- **EyeMag Pro F/S adapter**
  - To attach the EyeMag Light illumination source to the optical system of EyeMag Pro F and EyeMag Pro S
- **Battery charger**
  - Processor controlled with country-specific power cable
- **Cable clips**
  - To connect the lamp cable to the system carrier
- **Soft case**
  - High-quality, shock-proof protection for your light source and accessories

**Optional accessories**
- **Additional power supply unit**
  - Including 4 standard, AA NiMH batteries
- **Orange filter**
  - Swing-in orange filter for EyeMag Light prevents premature curing of composite materials

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**Fiber optic cold-light illumination**
Schott KL 1500 LCD fiber optic cold-light source with illumination system and liquid light guide for EyeMag Pro S

- **Schott KL 1500 fiber optic cold-light source**
  - Reliable halogen light source with filtered infrared portion
- **Illumination system**
  - Illumination optics for even illumination of the field of view; with adapter set to attach to the EyeMag Pro S optical system
- **Liquid light guide**
  - Flexible, robust liquid light guide with maximum light transmission
- **Light guide mounts**
  - Mounts the light guide to the OR clothing of the user

**Optional accessories**
- **Adapter for stand-alone solution**
  - For use as a head lamp on the headband system without an optical system
- **Yellow filter**
  - To avoid premature curing of composite materials

**Technical data**
- **Bulb type**
  - 150 W halogen
- **Operating time**
  - Unlimited
- **Power supply**
  - 230 V/120 V

**Compliance**

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A high-quality, shock-proof soft case comes standard with EyeMag loupes and EyeMag Light.
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