The BQ 900® because of its excellent optics, unique quality, versatility and operating ease has become the standard of value among ophthalmologists around the world for advanced Slit Lamp-microscopy.

**Slit Illumination**

A constant excellent illumination (150,000 to approx. 600,000 Lux), the ability to adjust the length of the slit image either by steps or continuously from 0.2 to 8 mm respectively 1 to 8 mm, plus a slit mechanism allowing hairline settings providing unique depth perception are only part of many great features of this device. The possibility to rotate the slit around the optical axis through 90° in either direction combined with the range of slit length adjustments permits evaluation of distances in the horizontal plane. Tilting the slit image by up to 20° permits examination in vertical, oblique and horizontal optical section.

**Cross Slide**

The illumination device and the stereo-microscope are mounted on a common axis on a cross slide. With this arrangement, both the slit and the object can be seen in focus simultaneously. With the patented joy-stick, movements in vertical and horizontal directions are possible.

**Fixation device 3600**

Permits uninterrupted observation through the microscope and simultaneous guidance of the patient’s eye to any desired position. It helps to make fundus examinations easier.

**Headrest**

The headrest has been designed according to anatomical criterias. It facilitates the examination of corpulent patients. It includes an adjustable chinrest.

**Technical Specifications Stereo-Microscope**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Front lens</td>
<td>f 105 mm.</td>
<td></td>
</tr>
<tr>
<td>Angle of optical axes</td>
<td>13°</td>
<td></td>
</tr>
<tr>
<td>Total Magnification</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diameter of field</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Step magnification</td>
<td>6.3 x</td>
<td>32.0 mm</td>
</tr>
<tr>
<td>changer</td>
<td>10.0 x</td>
<td>20.0 mm</td>
</tr>
<tr>
<td>(Galilean system)</td>
<td>16.0 x</td>
<td>12.7 mm</td>
</tr>
<tr>
<td></td>
<td>25.0 x</td>
<td>8.0 mm</td>
</tr>
<tr>
<td></td>
<td>40.0 x</td>
<td>5.1 mm</td>
</tr>
<tr>
<td>Binocular tube</td>
<td>f 132 for convergent viewing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Range of pupillary distance 52 – 78 mm.</td>
<td></td>
</tr>
<tr>
<td>Irradiance at max. intensity (7.5 V) and max. aperture</td>
<td>0.07 mW/cm² (300 nm – 400 nm)</td>
<td>180 mW/cm² (380 nm – 700 nm)</td>
</tr>
<tr>
<td></td>
<td>100 mW/cm² (700 nm – 1100 nm)</td>
<td></td>
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<tr>
<td>According to ISO 10939</td>
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</tr>
</tbody>
</table>
**Stereo-Microscope**

The binocular microscope has a parallel optical path. Its main features are a large binocular field of view, high resolution and depth of focus. The convergent eye-pieces allow examinations under natural conditions and eliminate double images, commonly perceived when working with parallel eyepieces. The examiner is relaxed and free of fatigue even during longer periods of examination.

**Crosshair Eyepiece**

Use of this eyepiece ensures perfect focussing of the microscope image onto the camera without any loss through accommodation by the user.

**Video Adapter**

For easy and quick mounting of a video camera. Everything seen through the microscope is projected to a monitor.

**Digital-Photo Adapter**

For attaching the Nikon Coolpix® camera, offering instant, high-quality digital pictures for printing or archiving.

**Beam Splitter**

The beam splitter can permanently be left on the slit lamp for diagnostic purposes giving full 100% light to the oculars. For use with video or second observer tube there is a choice of either 50/50% or 70/30% the latter giving more light to the camera, thus an even better image.

**Adapter for Inclined Eye-piece**

The viewing into the microscope is inclined at 20° to the horizontal thus enabling the examiner to keep his head in a fatigue free position.

**Second observer tube**

For professional colleagues, students, technicians or the nurse to participate in the examination.

**Photo Adapter**

- Tube
- Flash holder
- Eye-piece 12,5 x with crosshair reticule
- Pin

**Crosshair Eyepiece**

Use of this eyepiece ensures perfect focussing of the microscope image onto the camera without any loss through accommodation by the user.
The Stereo-Variator
A new dimension in the examination of the fundus.

The Stereo-Variator reduces the angle of stereoscopic observation from 13° to 4.5°. It facilitates the stereoscopic examination of the fundus, especially under unfavourable conditions such as high myopia, small pupils and peripheral parts of the fundus and the vitreous. It results in an enlarged binocular field of view and, although reduced, still gives access to stereoscopic observation which again improves binocular visual acuity.

Magnification changer
Based on the principles of the Galilean telescope, including two afocal systems, changing of magnification without interrupting examination is possible in 5 steps by simply rotating a drum, starting at 6.3 x to 10 x, 16 x, 25 x and 40 x magnification.

Goldmann Applanation Tonometer
Features a special support arm designed for the BQ to swing the tonometer in front of the microscope.

Lotmar Visometer
A very useful attachment for the assessment of retinal visual acuity
• prognosis of postoperative acuity in cataract surgery
• direct reading of retinal visual acuity

Goldmann Applanation Tonometer
Features a special support arm designed for the BQ to swing the tonometer in front of the microscope.

Range of application:
• Examination of the lens surface in case of narrow pupil
• Examination of the fundus with the Goldmann Fundus Contact Lens
• Examination of the lateral parts of the fundus
• Examination of the endothelium by specular reflection
• Examination and therapy in connection with laser irradiation

The Stereo-Variator has two working positions:
- Binocular field of view small
- Binocular field of view large

Depth Measuring Attachments
A simple and accurate attachment for measurement of corneal thickness and anterior chamber depth. No I is for measurements up to 1.2 mm. No II for measurements up to 6 mm.
Gonioscopy

• One-mirror contact lens 902, angle of 62°
• Two-mirror contact lens 905, angle of 62°.

Fundus and Vitreous Examination

• Macula contact lens 901, without mirror, angle up to 30°.

Examination of the Entire Fundus and Gonioscopy

• Three-mirror contact lens 903, height 27 mm, corneal diameter 12 mm
• Three-mirror contact lens 630, height 19 mm, corneal diameter 12 mm
• Three-mirror contact lens 907 for children, corneal diameter 11 mm, radius 7.3 mm
• Three-mirror contact lens 906 for babies, corneal diameter 10 mm, radius 7.0 mm

Angles of mirrors of 73°, 66° and 59°.

Observation of the Endothelium of the Cornea according to Prof. Eisner

Examination of the Ora Serrata

• Ora one-mirror lens 904, with depressor, angle of 62°.

Goldmann Contact Lenses

Developed in association with Professor Goldmann, Haag-Streit contact lenses for examination of the irido-corneal angle, the vitreous, the central part and particularly the periphery of the fundus, have become a standard which is accepted worldwide. They allow binocular stereoscopic observation of most parts of the human eye, even under the most unfavourable conditions.

The following lenses are available:

Retina 145 L

The Retina 145 L direct contact glass is a panfundus wide-angle viewing device designed to facilitate the problem-free diagnosis and treatment of the retina as far as the equator.

Fundus and Vitreous Examination

• Minus Preset Lenses with movable fixture for examination up to 60°.

Preset Lenses

A simple and time-saving method for the examination of the vitreous and the fundus without touching the eye.

• Minus Preset Lenses with movable fixture for examination up to 60°.

Laser Contact Glasses

• Laser Three-mirror contact lens 903 L, height 27 mm.

Accessories for the Slit Lamp
# The Guide to your Digital Slit Lamp Imaging Solution

## Basis: BQ 900° Slit Lamp

<table>
<thead>
<tr>
<th>Standard Solution:</th>
<th>Solution with Monitor:</th>
<th>Solution with Computer:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital-Photo Adapter</td>
<td>Digital-Photo Adapter</td>
<td>Digital-Photo Adapter</td>
</tr>
<tr>
<td>Beam Splitter</td>
<td>Beam Splitter</td>
<td>Beam Splitter</td>
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<tr>
<td>Coolpix®</td>
<td>Coolpix®</td>
<td>Coolpix®</td>
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<tr>
<td>(see <a href="http://www.haag-streit.com">www.haag-streit.com</a> for recommended models)</td>
<td>(see <a href="http://www.haag-streit.com">www.haag-streit.com</a> for recommended models)</td>
<td>(see <a href="http://www.haag-streit.com">www.haag-streit.com</a> for recommended models)</td>
</tr>
<tr>
<td>Eye-piece</td>
<td>Monitor</td>
<td>Computer</td>
</tr>
<tr>
<td>(Crosshair)</td>
<td>Requirements</td>
<td>Requirements</td>
</tr>
<tr>
<td></td>
<td>Video input: NTSC or PAL</td>
<td>Platform: Windows® or Macintosh® with USB interface.</td>
</tr>
</tbody>
</table>

## Requirements for Digital Slit Lamp Imaging with a Haag-Streit BQ 900°

### You have / You want

<table>
<thead>
<tr>
<th>You need</th>
<th>Coolpix® only</th>
<th>Coolpix® plus Monitor (LCD/Video)</th>
<th>Coolpix® plus PC</th>
<th>Coolpix® plus Macintosh®</th>
</tr>
</thead>
<tbody>
<tr>
<td>BQ 900° Slit Lamp</td>
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<tr>
<td>Digital-Photo Adapter DC 01</td>
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<tr>
<td>Beam Splitter* (70/30)</td>
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<tr>
<td>Field Illumination</td>
<td></td>
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<tr>
<td>Background Illumination</td>
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<tr>
<td>Diffusor</td>
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<tr>
<td>Eye-piece 900.7.4.C*</td>
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<tr>
<td>EyeCap® SL</td>
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<tr>
<td>* Components of the BQ 900° with Video</td>
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</tbody>
</table>

**Supported platforms:**
- Windows®
- Macintosh®

**Requirements:**
- Video input: NTSC or PAL

**Software:**
- Computer

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Specifications subject to change without prior notice