

# Slit Lamp BQ 900®



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The basic model – a must for any professional

## 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.

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.

## Technical Specifications Stereo-Microscope

Front lens	f 105 mm. Angle of optical axes 13°	
	Total Magnification	Diameter of field
5 Step magnification changer (Galilean system)	6.3 x	32.0 mm
	10.0 x	20.0 mm
	16.0 x	12.7 mm
	25.0 x	8.0 mm
	40.0 x	5.1 mm
Binocular tube	f 132 for convergent viewing Range of pupillary distance 52 – 78 mm.	
Irradiance at max. intensity (7.5 V) and max. aperture	0.07 mW/cm <sup>2</sup> (300 nm – 400 nm) 180 mW/cm <sup>2</sup> (380 nm – 700 nm)	
According to ISO 10939	100 mW/cm <sup>2</sup> (700 nm – 1100 nm)	

# Expanding the microscope

## 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.



## 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.



## Video Adapter

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



## 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.



## Second observer tube

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



## Digital-Photo Adapter

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



## Crosshair Eyepiece

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



## Photo Adapter

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



### Goldmann Applanation Tonometer

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

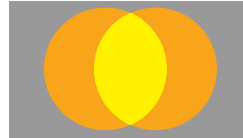
### The Stereo-Variator

A new dimension in the examination of the fundus.

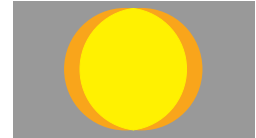
The Stereo-Variator reduces the angle of stereoscopic observation from 13° to 4,5°.

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.

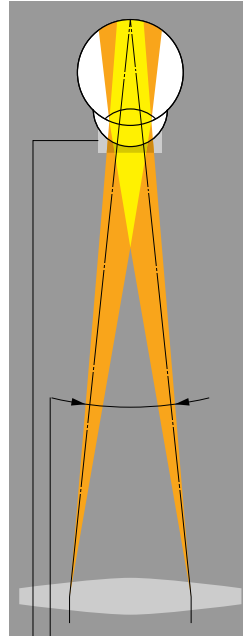
### The Stereo-Variator has two working positions:



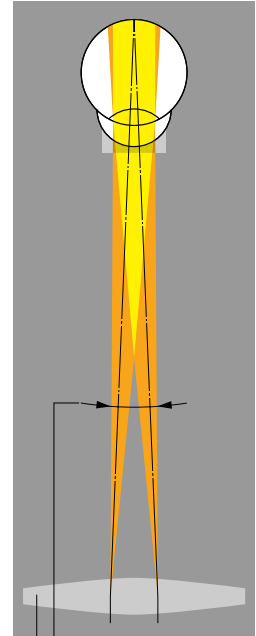
Binocular field of view small



Binocular field of view large



Stereo-Variator disengaged <  
Stereoscopic viewing angle large  
Contact lens



Stereo-Variator engaged <  
Stereoscopic viewing angle small  
Front lens



### 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.



### 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



### 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



### 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.

# Accessories for the Slit Lamp

## 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:



### Gonioscopy

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



### Laser Contact Glasses

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



### 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°.



### 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

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



### 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°.

# The Guide to your Digital Slit Lamp Imaging Solution

Basis: BQ 900® Slit Lamp

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

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

You need		You have / You want			
		Coolpix® only	Coolpix® plus Monitor (LCD/Video)	Coolpix® plus PC	Coolpix® plus Macintosh®
BQ 900® Slit Lamp					
Digital-Photo Adapter DC 01					
Beam Splitter* (70/30)					
Field Illumination	Background Illumination				
	Diffusor				
Eye-piece 900.7.4.C*					
EyeCap® SL					

\*Components of the BQ 900® with Video

 required  recommended