

SL 990 Series Slitlamps

The SL 990 series is characterized by a modern optic project and uses a multilayered antireflection treatment that ensures a more effective transmission of light, thus improving the optic resolution and contrast by 20%. The optic quality of the SL 990 series moreover provides a 20% increase in optic transmission and a 10% enlargement of depth of field.

This series of Slitlamps utilize the "Haag Streit" style illumination system. The optical quality and multilayered antireflection treatment incorporated in the optics has ensured that these Slitlamps have superior optical efficiency with increased light transmission. Along with the designed expanded field of view this gives a clearer image and increase in the depth of focus possible.

The optics of the Galileian microscope (SL 980 3X and 5X) are characterized by the 8 degree convergence of the internal microscope path which this permits an improved image alignment thus reducing fatigue for the Doctor.

Illumination

The 12V 30W halogen bulb assures high quality color temperature. With the tilting device, the inclined light can be vertically projected up to 20degrees with 5 steps and this is very helpful in the horizontal optical observation, gonioscopy and posterior eye examination.

- SL 990/3X - Slitlamp with three magnification settings
- SL 990/5X - Slitlamp with five magnification settings
- SL 990/Zoom - Slitlamp with Zoom magnification from 6x to 33x



SL 990 5x



SL 990 ZOOM

C.S.O. (Costruzione Strumenti Oftalmici S.r.l.)

SL 990 VIDEO SYSTEM

The SL 990 series Slitlamps can be utilized with a video system to permit image acquisition and interpretation, the management of patient's hospital files, ophthalmic lenses and mounts.

The images can be acquired by a digital microcamera, analog monitor, video-recorder and color printer.

The binocular direct vision stereo microscope has been constructed with an optical system consisting of 1x and 6x power.

The 13X binocular angle enables a clear observation of the eye structures.

The microscopes can be provided with a special fitment that allows the use of a special microtelecamera(optional) that causes no interference to visual brightness for the observer.

Mirror with rear lighting

The 50% reflective treatment makes it possible to line up the microscope in perfect coaxiality with the slit projector, thus enabling the Doctor to get a better view of the red reflection. This makes it much easier to study brown or black eyes. .

Eye Image® System

Windows™ software - PC - digital monitor and colour printer. The system permits images and digital video acquisition and elaboration.

Eye Image® is

- image and digital video acquisition, analysis and filing
- image measuring, editing and image printing
- Patient examination files
- Statistics
- Personalized print and report
- Unit expansion for corneal topography and applications of contact lenses



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Specifications	SL 990 3X	SL 990 5X	SL 990 Zoom
Type	Galileian converging binocular	Galileian converging binocular	Zoom converging binocular
Magnification	3 positions revolving objective	5 positions rotating drum	Continuously variable
Eyepieces	12.5x	12.5x	12.5x
Total magnification	10x 16x 25x	6x 10x 16x 25x 40x	6 - 33x
Real Fields of view (mm.)	29 16 9	44 29 16 9 6	37 - 7
Interpupillary adjust	48.5 - 80 mm.	48.5 - 80 mm.	48.5 - 80 mm.

Slit lamp

Slit length	0.2 - 12 mm.
Slit width continuously variable:	0 -12 mm.
Slit projection:	1X
Aperture diaphragms	0.2 / 1 / 3 / 5 / 9 / 12 mm.
Filters:	Cobalt blue, redfree, grey and heat-absorbing
Slit rotation:	0° -180° continuous
Angle of incidence:	0° 5° 10° 15° 20°
Patient's eye/prisma surface	
working distance:	80 mm.
Fixation point:	Luminous articulated
Chin-rest: height adjustment:	70 mm.
Surface size:	380 x 500 mm.
Power supply:	100-120-230-240V AC± 10%
Fuses:	5 X 20 mm. -120V -400mAT -230V -200mAT
Voltage frequency:	50 - 60 Hz
Power consumption:	25VA
Instrument voltage	6V AC
Halogen bulb:	6V 20W PG 22
Fixation point bulb	12V 26mA Red



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Standard accessories

- Chin-rest tissue
- Spare illumination bulb
- Fuses
- Maintenance kit

Optional accessories

- 16X eyepieces for SL 990/2X
- 10X eyepieces for SL 990/5X
- Hruby lens kit
- Tonometer mount
- Hand-rest
- Rheostat on instrument base
- Video adapter
- Micrometer eyepiece
- Second observer tube
- Bearing with contrast and polarization filters
- Beam splitter for microcamera
- Beam splitter with one plug only for standard videocamera
- Beam splitter with two plugs (reflex camera/seconds observer/video)
- Background illumination kit
- Yellow filters included in microscope
- Joystick's push button (useful in Eye Image® acquisition)

More information on slit lamps available at www.csoitalia.it.

