SL 120 Slit Lamp

As diverse as your patients

ZEISS

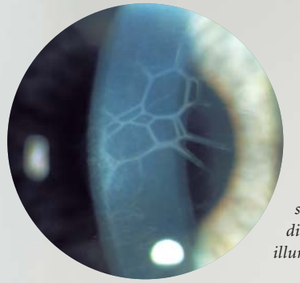
The all-rounder

with outstanding performance

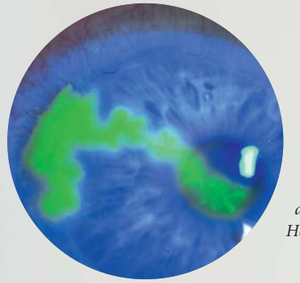
Precision for optimum results
Performance for smooth treatment routines
Patient Care for satisfied patients
Productivity for efficient office management

The SL 120 slit lamp from Carl Zeiss is a versatile diagnostic instrument. It offers outstanding optical performance and optimized ease of use for reliable diagnosis in the anterior segment, vitreous and fundus. An applanation tonometer, laser link and digital image documentation round off the possibilities of use.

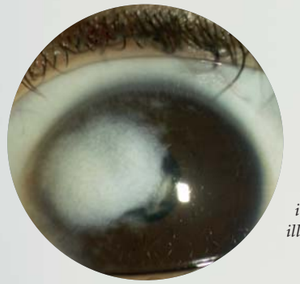
Carl Zeiss: Vision meets competence
With dedication and technical expertise, Carl Zeiss has been meeting even the highest demands on precision engineering and optics for more than 160 years.
In 1912 Carl Zeiss developed the first slit lamp together with the Swedish ophthalmologist and Nobel laureate Allvar Gullstrand. Generations of leading ophthalmologists have played a key role in perfecting this unique eye examination system.



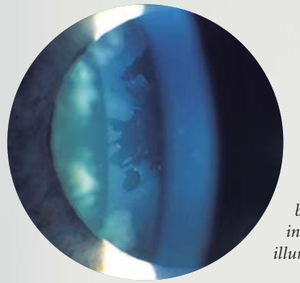
Corneal structures in direct focal illumination [2)]



Keratitis dendritica in Herpes simplex [1)]



Dermoid in diffuse illumination [1)]



Capsular bag structures in direct focal illumination [2)]

1) by courtesy of Sheraz Daya, MD FACP FACS FRCS (Ed), Centre for Sight, Corneoplastic Unit & Eye Bank, Queen Victoria Hospital, East Grinstead, UK
2) by courtesy of Prof. Dr. med. Jürgen Strobel, Eye Clinic of the Friedrich Schiller University Jena, Jena, Germany

Precision

Focus on brilliance and detail

Proven optics from Carl Zeiss generate a crisp, razor-sharp image. Excellent resolution and high contrast ensure that even the finest structures are visible. You benefit from exceptional image detail, therefore increasing the reliability of diagnosis.

A slit image made to measure
You can rotate the slit image to adjust it to the position of the object of interest in the eye. The decentration of the slit image allows a wide variety of illumination methods, permitting not only more exact examination of low-contrast findings such as corneal scars but also better after-cataract diagnosis. The width and length of the slit image can also be continuously adapted to the size of the suspected anomaly.

The ultimate in flexibility
Thanks to excellent optical transmission, the patient's eye can be examined with lower light intensity. A stereo microscope with 5 magnifications steps, a large field of view and super high-eyepoint eyepieces for eyeglass wearers image the patient's eye with outstanding ZEISS quality. The SL 120 can be optionally equipped with a tiltable prism head, reducing reflections during examinations with contact lenses. This allows better observation of the peripheral areas of the posterior segment.

Slit image

Reliable operation thanks to joystick and quick-action brake

Performance

Ergonomic design is no coincidence.

The slit lamp is one of the most commonly used examination instruments in practice. This is why optimum ease of use and maximum convenience were given top priority in the development of the SL 120.

Everything under control with just one hand
The slit lamp can be operated intuitively and exactly with the joystick and quick-action brake. Thanks to easy-grip controls, the length, width and rotation of the slit image can be set precisely with a single hand, giving you more certainty and reliability in difficult cases. A short working distance ensures a comfortable arm and body posture.

As efficient and diverse as your workflow

Not only do you benefit from an ergonomically correct design which reduces examination times. The slit lamp is also designed so that its scope of application can be easily expanded, permitting, for example, measurements on the eye using the appropriate accessories.

Measurement of intraocular pressure
The applanation tonometer allows precise measurement of intraocular pressure. Depending on your preference, you can attach an upright tonometer to the swivel joint or mount a suspended tonometer on the stereomicroscope.

Fast conversion to documentation slit lamp
The high light transmission and high-quality optics of the DigiCam system provide optimum conditions for overview and slit image photographs.
An additional beam splitter allows the easy connection of coobservation devices, as well as camera and video equipment via special adapters. The DigiCam Illuminator ensures homogenous and continuous illumination of the area surrounding the slit.

Central platform for all patient information
VISUPAC, the digital image archiving and visualization system from ZEISS, manages the patient data in a professional database. Simple, fast access to diagnostic data saves time and increases office efficiency.

VISULINK
A coagulation laser can be attached via the VISULINK 532/U. VISULINK PDT/U also provides you with the ideal equipment for photodynamic therapy of age-related macular degeneration.

Upright AT 030 applanation tonometer

DigiCam system with commercial camera

SL 120 Slit Lamp with VISULINK

Recognizing details reliably

Patient satisfaction is your primary goal at all times. Your patients put their trust in the reliability of your diagnosis. The SL 120 is one of the most powerful slit lamps. Its excellent performance ensures that even the finest structures can be visualized, creating the best possible conditions for reliable diagnosis and treatment.

Considerably less exposure to light
The high light transmission of the SL 120 reduces light loss. This means you need less light for exact diagnosis – and therefore greater comfort for your patient.

A picture says more than a thousand words
Communication creates understanding. You can quickly upgrade the SL 120 into a slit lamp for digital documentation, allowing you to explain your findings clearly and understandably to your patients using photographs.

Technical Data

SL 120 Slit Lamp	
Magnification	5x, 8x, 12x, 20x, 32x with 10x eyepieces 6x, 10x, 16x, 25x, 40x with 12.5x eyepieces
Field of view diameter	40 … 6 mm with 10x eyepieces 31 … 5 mm with 12.5x eyepieces
Eyepiece magnification	optionally 10x or 12.5x super high-eyepoint eyepieces, compensation of ametropia ±8 D
Width of slit image	continuous from 0 to 14 mm
Length of slit image	in steps 0.3 / 3.5 / 8 / 14 mm; continuous 1 … 6 mm
Rotation of slit image	continuous ±90°
Decentration of slit image	±4° horizontally, click stops at -10°, 0°, +10°
Swivel range of slit projector	180°, scale for angular difference; click stop at 0°
Angle of incidence	0° or 0° … 20° tiltable with tiltable prism head
Filters	blue, green (red-free); heat-reflecting filter, permanently integrated; diffusing screen, swing-in
Free working distance exit prism/ patient's eye	65 mm 2.5 in
Travel of instrument base	30 mm (vertical), 110 mm (lateral), 90 mm (axial) 1.2 in (vertical), 4.3 in (lateral), 3.5 in (axial)
Vertical travel of headrest	59 mm 2.3 in
Projection illumination	6 V / 20 W halogen lamp
Brightness	continuously adjustable
Rated voltage	100 … 240 V ±10 %, self-sensing, 50 / 60 Hz
Weight	basic instrument 9.75 kg (21.49 lbs) headrest 1.25 kg (2.76 lbs)
Dimensions of basic instrument (W x H x D)	300 mm x 430 mm x 355 mm 11.8 in x 16.9 in x 13.9 in

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