Slit lamp excellence
Proven quality for optimum performance
Meeting eye care demands with competence

Carl Zeiss has been meeting highest eye care demands with 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 Alvar Gullstrand. Since then, generations of leading eye care professionals have played a key role in helping us perfect this unique eye examination and therapy technology. The result? Premium slit lamp quality and reliability – the SL 115 Classic, SL 120 and SL 130 from Carl Zeiss.

1) By courtesy of Sheraz Days, MD FACP FACS FRCSEd (UK), Centre for Sight, Corneoplastic Unit & Eye Bank, Queen Victoria Hospital, East Grinstead, UK
2) By courtesy of Prof. Dr. med. Thomas Kühn, Ophthalmology Clinic, Hospital of the Johann Wolfgang Goethe University Frankfurt am Main, Frankfurt, Germany
3) By courtesy of Prof. Dr. med. Jürgen Strobel, Eye Clinic of the Friedrich Schiller University Jena, Jena, Germany
The all-rounder for outstanding performance

SL 120

As a highly powerful and versatile slit lamp, the SL 120 provides superb support for anterior segment, vitreous and fundus assessments. Sharp images with excellent detail resolution and high contrast enable visualization of finest structures.

Adjustment flexibility

The system’s precision image supports a variety of adjustment options such as slit image rotation, letting you focus directly on to the object of interest. Its compact and simple design allows short working distances and easy access to the patient’s eyes. What’s more, all slit lamp examinations can be performed with one hand.

Features at a glance

• Slit images with high-contrast resolution and detail for reliable examinations and contact lens fittings
• Single-hand operation for precise and intuitive ergonomics
• Integrated power supply for immediate plug-and-play readiness
• Integrated swing-in yellow filter for fluorescence examinations and contact lens fittings
• Stereo microscope with 3 magnification steps
• Super high-eyepoint eyepieces offer eyeglass wearers excellent working convenience
• Large illuminated field for superb view of the entire anterior segment
• Filters to increase the contrast in red-free observation and fluorescence
• Integrated UV and IR Filter in compliance with ISO 10939
• Imaging solutions* for convenient documentation
• AT 020 applanation tonometer* for precise intraocular pressure measurements

SL 115 Classic

Focus on the essentials

The SL 115 Classic is a solid performer among slit lamps offering outstanding optical performance at an attractive price. Its ease of use during routine examinations and contact lens fittings enables quick, simple and convenient eye diagnostics.

Adjustment flexibility

Slit decentration enables more precise examinations of low-contrast findings such as corneal scars and better after-cataract diagnosis. Also, the slit image width and length can be continuously adapted to the size of the anomaly.

Features at a glance

• Excellent optical transmission with high resolution and contrast for best observation
• Single-hand operation and ergonomic design for comfortable body posture throughout the procedure
• Optimized ease of use through quick action brake and easy-grip controls
• Stereo microscope with 5 magnification steps, choice of parallel or convergent tube
• Super high-eyepoint eyepieces for eyeglass wearers
• Large illuminated field for superb view of the entire anterior segment
• Imaging solutions* for convenient documentation
• Two types of applanation tonometers* for precise intraocular pressure measurements
• Coagulation laser attachment via VISULINK® 532/V*®
• Tiltable prism head* for reduced reflections during contact lens examinations and better peripheral observation of the posterior segment

* Option SL 120
SL 130

Premium optics from diagnosis to laser therapy

The SL 130 slit lamp is a premium instrument for the complete range of diagnostic and laser treatment applications. With its high-quality optics, intuitive handling and special features, it is designed to deliver reliable performance for many years to come.

Maximum information
Crisp, highly detailed images provide a wealth of information. Superb optical transmission enables examinations with reduced light exposure and greater patient comfort. A stereo microscope with 5 magnification steps, large field of view and super high-eye-point eyepieces also offers eyeglass wearers an outstanding image.

Convenient operation
All system adjustments can be conveniently performed with both hands. The slit position can be rotated to the object of interest or decentered for contrast enhancement and better detection of fine corneal lesions. Also, the prism head* can be tilted up to 20 degrees to reduce reflections during contact lens examinations and for better chamber angle and fundus observation. Intuitive operation is provided by the joystick and quick-action brake. The optional ACCENTO® ergo tube* supports a comfortable working position to prevent neck strain.

Application flexibility
SL 130 can be fitted with a VISULINK® S32AU* laser link for laser coagulations. Choose between two different applanation tonometers* for precise intraocular pressure measurements.

Digital documentation
Optional imaging solutions enable digital documentation of slit images, while the DigiCam illuminator* ensures homogeneous illumination of the slit area. An additional beam splitter allows easy connection of co-observation devices as well as camera and video equipment.

Features at a glance
- Crisp, high-resolution images for the complete range of slit lamp applications
- Ideal handling for laser application and contact glass examinations due to convenient single-hand operation from both sides of the slit projector
- Ergonomic design for comfortable body posture throughout the procedure
- Accurate and intuitive system operation for precise length, width and rotated slit image adjustment
- Stereo microscope with 5 magnification steps, tiltable prism head* up to 20 degrees for better peripheral observation of the posterior segment
- Optimized ease of use through quick action brake and triple slit for fast examinations
- Imaging solutions* for convenient documentation
- Choice of two applanation tonometers* for precise intraocular pressure measurements
- ACCENTO® ergo tube* for comfortable working posture with minimum neck strain
- Coagulation laser attachment via VISULINK S32/U*

* Option
The moment innovation and passion lead to the best vision for your patient.

This is the moment we work for.
Technical Data

SL 115 Classic Slit Lamp
SL 120 Slit Lamp
SL 130 Slit Lamp

Magnification
8x, 12x, 20x with 10x eyepieces
6x, 10x, 16x, 25x, 40x with 12.5x eyepieces
6x, 10x, 16x, 25x, 40x with 12.5x eyepieces

Field of view diameter
25 ... 10 mm
40 ... 6 mm with 10x eyepieces
31 ... 5 mm with 12.5x eyepieces
40 ... 6 mm with 10x eyepieces

Eyepiece magnification
Super high-eyepoint eyepieces 10x
Optional 10x or 12.5x super high-eyepoint eyepieces
Optional 10x or 12.5x super high-eyepoint eyepieces

Width of slit image
Continuous from 0 to 14 mm
Continuous from 0 to 14 mm
Continuous from 0 to 14 mm

Length of slit image
In steps 0.3 / 3.5 / 8 / 14 mm
In steps 0.3 / 3.5 / 8 / 14 mm
In steps 0.3 / 3.5 / 7 / 10 / 14 mm

Rotation of slit image
Continuous ±90°
Continuous ±90°
Continuous ±90°

Decentration of slit image
±4° horizontally, click stop at 0°
±4° horizontally, click stop at 0°
±4° horizontally, click stop at 0°

Swivel range of slit projector
±90°, scale for angular difference; click stops at –10° / 0° / +10°
±90°, scale for angular difference; click stops at –10° / 0° / +10°
±90°, scale for angular difference; click stops at –10° / 0° / +10°

Angle of incidence
0°
0° ... 20° tiltable with tiltable prism head*

Filters
Blue, green (red-free), swing-in; heat-reflecting filter, permanently integrated; diffusing screen, swing-in; barrier filter (yellow)
Blue, green (red-free), swing-in; heat-reflecting filter, permanently integrated; diffusing screen, swing-in
Blue, green (red-free), grey, swing-in; heat-reflecting filter, permanently integrated; diffusing screen, swing-in

Free working distance exit prism/patient’s eye
73 mm
2.9 in
65 mm
2.5 in
66 mm
2.6 in

Travel of instrument base
30 mm (vertical), 110 mm (sagittal), 90 mm (axial)
30 mm (vertical), 110 mm (sagittal), 90 mm (axial)
30 mm (vertical), 110 mm (sagittal), 90 mm (axial)

Vertical travel of headrest
59 mm
2.3 in
59 mm
2.3 in
59 mm
2.3 in

Projection illumination
6 V / 10 W halogen lamp
6 V / 20 W halogen lamp
6 V / 20 W halogen lamp

Rated voltage
100 ... 240 V ±10%, self-sensing, 50 / 60 Hz
100 ... 240 V ±10%, self-sensing, 50 / 60 Hz
100 ... 240 V ±10%, self-sensing, 50 / 60 Hz

Weight
Basic instrument 8.75 kg (19.3 lb)
Basic instrument 8.75 kg (19.3 lb)
Basic instrument 8.85 kg (19.5 lb)

Dimensions of basic instrument (W x H x D)
300 mm x 430 mm x 355 mm
300 mm x 430 mm x 355 mm
300 mm x 430 mm x 355 mm

Selection of optional accessories*

Documentation Imaging solutions available
Applicaton tonometer AT 020 application tonometer
Tube Parallel tube, convergent tube
Eyepiece 10x eyepiece for length and angle measurement
Ergonomics Fixation light ACCENTO® ergo tube; can only be used in combination with an additional accessory
Laser attachment VISULINK® VISU LINK® 532/532

For the full range of slit lamp accessories, please contact your local Carl Zeiss sales representative.

* Made By Carl Zeiss