

Щелевые лампы SL 800, SL 220, SL Imaging Solution, аппланационные офтальмологические тонометры AT 020, AT 030

Технические характеристики

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**Applanation Tonometers
AT 020 and AT 030 from ZEISS**

Compact and practice-proven



We make it visible.

Applanation Tonometers

AT 020 and AT 030 from ZEISS

The AT 020 and AT 030 applanation tonometers from ZEISS were designed on the principle introduced by Professor Goldmann. This principle provides precise measurements of intraocular pressure and today represents the gold standard in tonometry.

Adapters allow the maintenance-free tonometers to be mounted to different slit lamps. Naturally, even with a mounted applanation tonometer, you still have the possibility for later slit lamp extensions.



SL 115 Classic with AT 020



SL 120 with AT 030

Technical Data

Applanation Tonometers	ZEISS AT 020	ZEISS AT 030
Measuring body	2 prisms for image splitting	
Diameter of applanation field	3.06 mm (0.12 in)	
Measuring range	0–78.4 mN	
Scale reading	1.96 mN	0.98 mN
Reading of graduated drum	X 10 = intraocular pressure in mm Hg (or conversion to kPa with conversion table)	
Dimensions of tonometer	200 x 85 x 218 mm (7.9 x 3.3 x 8.6 in)	105 x 40 x 25 mm (4.1 x 1.6 x 1.0 in)
Total weight	680 g (1.50 lbs)	245 g (0.54 lbs)

CE 0297



Exam and document at the same time



ZEISS SL Imaging Solution

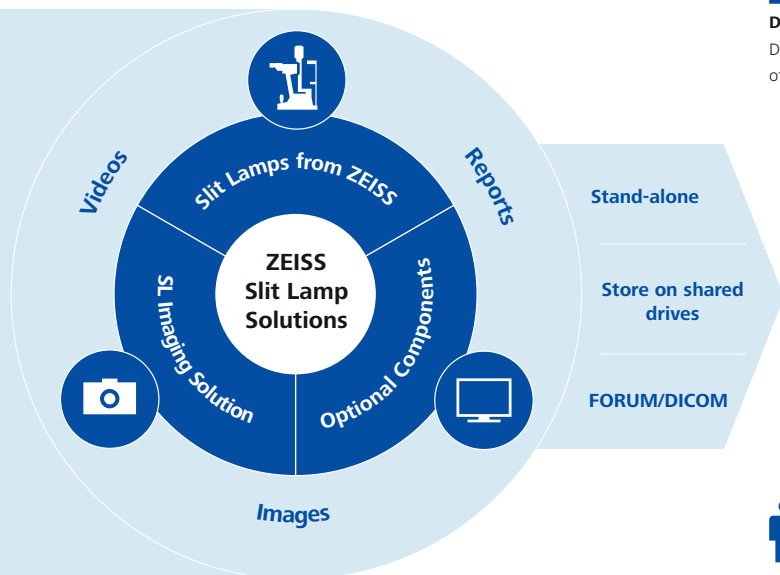


Seeing beyond

ZEISS SL Imaging Solution

Seamless image and data capture for Slit Lamps

The intuitive SL Imaging Solution from ZEISS takes your everyday slit lamp exams to the next level by adding the integration of high-quality image and video capture to exam reports, offering you the ability to document cases, to include in patient education, teaching, or publishing. This all-round imaging solution features a modular concept, giving you the option to add slit lamp imaging seamlessly into your workflow on a preferential basis.



Document

Document the status of the eye.



Education

Explain conditions to patients for better understanding.



Teaching

Explain condition and treatment to students.

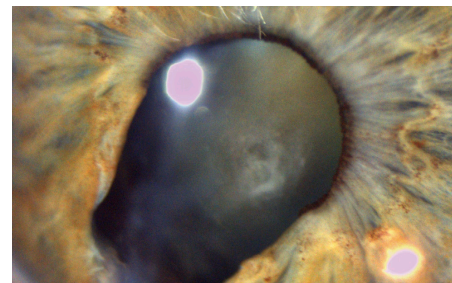


Community

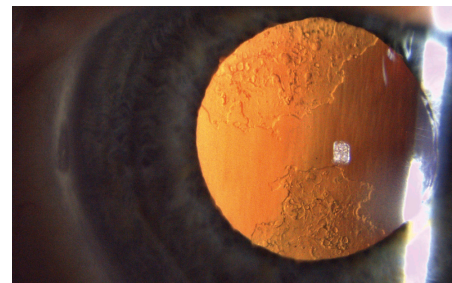
Share your findings with colleagues or with the community.

Custom capabilities

Complete your setup with optional components like the SL Workstation (Panel PC with pre-installed software) and widefield illumination available from ZEISS for a comfortable practice integration.



Traumatic coloboma of the iris and cataract as sequelae of penetrating injury



Posterior capsule opacification

High-definition image and video capture

The smooth integration of camera and slit lamp allows the capture of images and videos with clarity, magnifying tiny details. With a frame rate of up to 40 fps, broadcasting in real time without the worry of latency or lag is now possible with LiveView, enabling true-to-life color imaging – a convenient tool for patient education or teaching.

Technical details:

- Camera for up to 18 MP resolution (4,912 × 3,680 pixels)
- True-to-life color: capture as seen through the slit lamp
- Live view without latency: broadcast a live image on screen at 40 fps

Faint corneal scars at high magnification after LASIK therapy

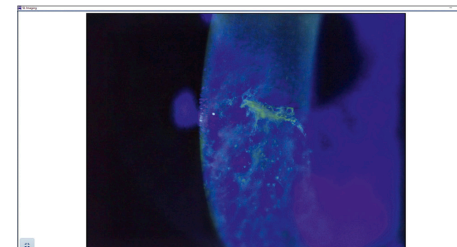


Enjoy additional comfort with the joystick control elements of the ZEISS SL 800 slit lamp

Workflow-optimized design

The workflow-optimized software and hardware design of the SL Imaging Solution allows for both the actual exam and documentation to take place in parallel. With no need to take extra effort for creating images and videos, you can fully focus on your patients.

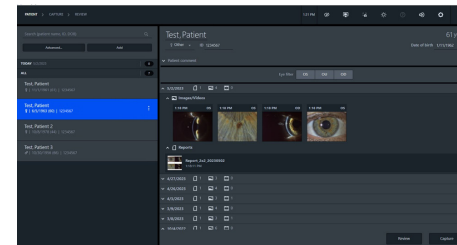
- Capture live exam images with the simple click of a joystick trigger or button*
- Capture images while simultaneously recording a video
- Compare recordings with the Flicker feature



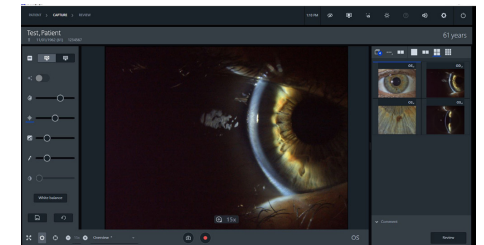
Fullscreen Mode

Key benefits of the SL Imaging Solution

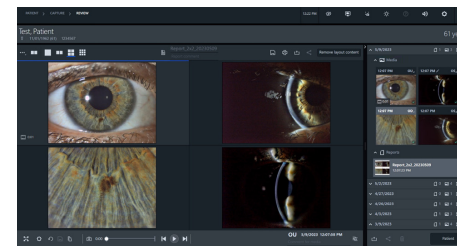
- **Automatic Eye Detection***: Automatically detects the eye position laterally
- **Live Parameter***: Monitor the magnification level and defined camera parameters
- **Camera Profiles**: Select a predefined settings profile, such as for slit images, or define your own individual profiles
- **Quick Edit**: Edit and adjust camera settings, including white balance, in live mode and edit stored images and videos
- **Instant Preview**: Review image quality immediately after capture
- **Dark Theme**: In combination with the illumination of the panel PC, working in a dark environment is convenient



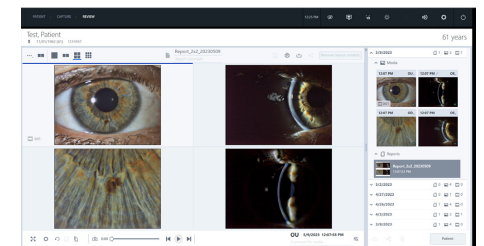
Patient screen in dark theme mode



Capture screen showing camera settings



Review screen showing report layout



Review screen in light theme

* In combination with the ZEISS SL 800 Slit Lamp

* In combination with the ZEISS SL 800 Slit Lamp



Digital documentation

One-click data export makes it convenient to add reports, images, and videos to the digital patient record, streamlining your daily workflow. Share records with patients and publications, with students for education, or with the ophthalmology community for academics or to facilitate second opinions. Other benefits include:

- Individual report layouts
- Auto-fill reports with images, including a direct comment function
- Export images to FORUM® from ZEISS and DICOM systems
- JPEG and MP4 export to hard drive

Technical data

SL cam compact

Sensor size	18 MP (4,912 × 3,680 pixels)
Camera resolution	5 MP (2,592 × 1,944 pixels) with approx. 40 fps (optimum) 18 MP (4,912 × 3,680 pixels) with approx. 20 fps (high)
Interface	USB 3.0
Dimensions (W × H × D); weight	for SL 115 Classic: 75 mm × 65 mm × 35 mm; 0.40 kg for SL 120/130: 77 mm × 67 mm × 53 mm; 0.53 kg for SL 220: 70 mm × 45 × 70 mm; 0.43 kg for SL 800: 80 mm × 130 × 55 mm; 0.45 kg



SL Imaging Software – Technical hardware requirements

Hard disc	Min. 2 TB
RAM	Min. 16 GB
Interface	Min. 1x USB 3.0 (for SL cam compact) Min. 1x USB 2.0 or higher (for ZEISS SL 800 only)
Monitor resolution	Min. 1,920 × 1,080 pixels
Operating system	Windows 10/11 (x64)*
Data export formats	JPEG (image) MP4 (video) PDF (report) DICOM (data transfer into FORUM/PMS)

SL Workstation – 22" Touch screen monitor including: PC mouse, PC keyboard

Dimensions (W × H × D)	546 mm × 351 mm × 66 mm	
Weight	Approx. 8 kg	
Monitor resolution	1,920 × 1,080 pixels LCD touch screen	
Processor	Intel® Core™ i7 Quad Core Processor	
Hard disc	2 TB HDD	
RAM	16 GB	
Interfaces	4x USB 3.0 2x Isolated Gigabit Ethernet Port 2x RS-232 1x HDMI and DisplayPort Audio (Mic-in/Line-out)	

Additional components (optional)

Widefield illumination	Dimensions (W × H × D)	35 mm × 185 mm × 50 mm
	Weight	approx. 0.15 kg
Foot switch	Dimensions (W × H × D)	79 mm × 103 mm × 29 mm
	Weight	approx. 0.35 kg
10x eyepiece, cross-hairs	Dimensions (L × diameter)	90 mm × 44 mm
	Weight	approx. 0.13 kg

* For compatibility with other operating systems please contact your service contact.



SL 220 Slit Lamp from ZEISS

Bright performance

New
LED slit lamp



ZEISS SL 220

Powerful flexibility

Complementing the ZEISS slit lamp portfolio, the ZEISS SL 220 delivers flexible performance throughout the day. Featuring the popular tower concept with LED illumination, it is a solid investment for years of use. Superb optical and mechanical qualities that one has come to expect from ZEISS, convenient operation as well as detailed, contrast-rich images support fast, precise eye examinations. Wide-ranging accessories allow for individual setup to suit your preferences.



*Powerful flexibility for
all slit lamp examinations:
the ZEISS SL 220.*

Optical brilliance

- Latest LED technology for instant, stable illumination
- 22 mm stereo base and large field with fully rotatable 12 mm slit for superb view of the entire anterior segment
- High-contrast, high-resolution slit images of exceptional detail for fast, reliable examinations

Operational convenience

- Popular user interface with LED illumination for convenient, intuitive operation
- Joystick, quick action brake and easy grip controls for precise slit adjustments
- Choice of 3 or 5 magnification steps for observation from overview to detail
- Optional parallel or convergent tube to support your workflow preferences

Versatile excellence

- Powerful versatility for comprehensive slit lamp examinations
- Broad assortment of accessories* – from ergonomics to tonometry – for expanded applications and excellent patient care
- ZEISS SL Imaging Module* to conveniently document clinical findings



Convenient imaging

The ZEISS SL 220 features the ZEISS SL Imaging Module, enabling image and video recording of all examinations – whether for documentation, patient consultation or presentations. The SL cam 5.0, a fully integrated, highly compact 5-megapixel camera, and the SL imaging software, combine forces to deliver high-resolution images and videos. User-specific capture settings and image review functionalities promote a smooth workflow.

ZEISS SL Imaging Module

Document any eye examination with high-resolution images and videos – for review, follow-ups and patient education.

*Option

Technical data

ZEISS SL 220

Magnification	5-step: 6x / 10x / 16x / 25x / 40x 3-step: 10x / 16x / 25x
Field of view	5-step magnification: 41 mm to 5.7 mm 3-step magnification: 26.5 mm to 8.7 mm
Eyepiece magnification	12.5x, compensation of ametropia ± 8 D
Width of slit image	Continuous from 0 to 12 mm
Length of slit image	Variable in steps of 0.2 / 1 / 3 / 5 / 9 / 12 mm, continuous 1 to 12 mm with scale indication
Rotation of slit image	Continuous $\pm 90^\circ$
Decentration of slit image	$\pm 4^\circ$ horizontally, fixated at 0°
Swivel range of slit projector	180°, scale for angular difference; click stops at -10° / 0° / $+10^\circ$
Angle of incidence	Variable in steps of 0° / 5° / 10° / 15° / 20°
Filters	Blue, green (red-free), grey, red, swing-in; diffusing screen, swing-in; barrier filter yellow, swing-in
Free working distance exit mirror/patient's eye	88 mm
Travel of instrument base	30 mm (vertical), 1.2 in (vertical), 110 mm (lateral), 4.3 in (lateral), 90 mm (axial), 3.5 in (axial)
Vertical travel of headrest	59 mm, 2.3 in
Projection illumination	15 V, LED
Brightness	Continuously adjustable
Rated voltage	100 ... 240 V $\pm 10\%$, 50 / 60 Hz
Weight	12.5 kg / 27.55 lbs (instrument including headrest)
Dimensions of basic instrument (W x H x D)	300 mm x 705 mm (± 15 mm) x 355 mm 11.8 in x 27.7 in (± 0.6 in) x 13.9 in

Selection of optional accessories*

ZEISS SL Imaging Module	SL cam 5.0 – 20/30 SL, SL cam 5.0 – beam splitter
ZEISS Applanation Tonometer	AT 030
Tube	Parallel tube, convergent tube
Ergonomics	Fixation light



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

Uncovering details with brilliant optics



ZEISS SL 800



Seeing beyond

ZEISS SL 800 Slit Lamp

Premium optical quality with a high level of comfort

With perfectly balanced ZEISS optics, extensive illumination options and a user-friendly operator concept directly at your fingertips, the SL 800 from ZEISS reveals details for diagnosis and optimizes your workflow. Furthermore, the modularity and the wide range of optional components and accessories adapt to your individual needs whenever necessary.

Superior optics for high-definition image quality.

Larger ZEISS lenses enable a better light-throughput. And in combination with the anti-reflex coating, they provide a high-definition image in true-to-life color with high contrast - even in 40x super magnification. Moreover, the apochromatic optimization greatly reduces chromatic and spherical aberrations in favor of visualizing structural details.



Continuous magnification steps reveal detailed structures.

Innovative operator concept for an enhanced focus on your patients.

With the new AutoView, you can easily change magnification with the motorized two-button mechanism. The optional electronic QuickStop brake is also activated without the need to release the joystick. The intelligent stand-by EcoMode saves energy by shutting down automatically when not in use, while the slit lamp then turns on again by simply touching the joystick. In short the SL 800, the next generation of slit lamps from ZEISS, delivers proven performance in a modern design.



AutoView and QuickStop are located comfortably next to the joystick.



Conveniently decenter the slit by repositioning the mirror base only.

TrueView optics

Apochromatic ZEISS lenses with anti-reflex coating for true-to-life color with high contrast.

VarioLight

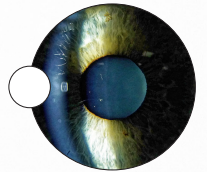
The LED light source is accompanied by a halogen filter to provide the advantages of both illumination characteristics.

Extensive illumination and filter options.

With the VarioLight feature, you can now select your preferred examination light – cold-white or warm-white. This allows you to gain a sharper and clearer image, as well as a more natural fundus impression. Together with the integrated and optional filters and diffusor, you are equipped with an all-around setup for the observation of anterior and posterior segment.¹

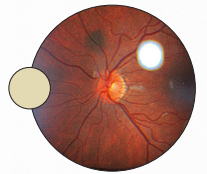
VarioLight cold-white

A slight bluish illumination benefits scattering and helps to identify irregularities within the anterior segment.



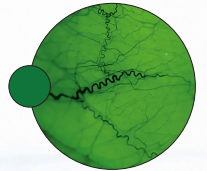
VarioLight warm-white

The warm halogen-like color temperature supports a more natural fundus impression.



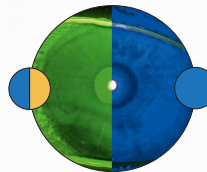
Green filter ("red free")

The redesigned filter characteristics provide a red-free, high-contrast image to improve the visualization of blood vessels.



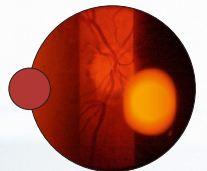
Blue filter

In combination with the optional yellow filter, it provides enhanced contrast during fluorescence analysis to visualize corneal defects and for contact lens fitting.



Red filter

For differentiated observation of the retinal layers.



¹ Requires optional equipment



ZEISS SL Imaging Solution and Accessories

Upgrade to meet your needs

ZEISS SL Imaging Solution

The optional ZEISS SL Imaging Solution enables convenient capturing of high-quality images and videos for documentation, patient consultation or presentations. Combine the SL Imaging Software with the SL cam compact.



Technical data

ZEISS SL 800

Magnification	6x/10x/16x/25x/40x, with 10x eyepiece, compensation of ametropia ± 8 dpt
Interpupillary distance	Convergent tube 50 – 84 mm; Parallel tube 52 – 78 mm
Light source	LED
Slit illumination	VarioLight cold-white, VarioLight warm-white
Filters	Blue, halogen, green (red-free), red, diffusor
Slit width	Continuously 0 – 12 mm
Slit length	Continuously 1 – 12 mm with scale index; variable in steps 0.2/1/3/5/9/12 mm
Slit diameter	0.2/1/3/5/9/12 mm
Slit rotation	Continuously 0° – 180°; click stop at 45°/90°/135°
Slit decentration (horizontal)	Available; fixable at 0°
Slit inclination (vertical)	0°/5°/10°/15°/20°
Swivel range of slit projector	>200° with scale; click stop at 0°/±45°/±60°

Operation	Control panel with joystick, brightness control; Controls for AutoView & QuickStop (optional)
Adjusting range	110 mm (side), 30 mm (height), 110 mm (length)
Weight	12 kg (incl. headrest)
Dimensions (W x H x D)	315 mm x 655 mm \pm 15 mm x 395 mm
Power supply	100 – 240 V AC, 50/60 Hz

Accessories for ZEISS SL 800

Tonometry	Applanation tonometer AT 030
Fundus observation	Fundus VarioView, mirror (short)
Other	Tube adapter 20°, yellow filter-aperture module, 10x eyepiece with scales, beam splitter 50/50, co-observation tube, fixation light, breath shield, paper pads for chinrest

Components of ZEISS SL Imaging Solution

Camera	SL cam compact, incl. SL Imaging SW
PC	SL Workstation
Other	Wide-field illumination, 10x eyepiece with cross-hairs, focusing rod, network isolator, isolation transformer (to use with customer PC)



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