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Glaucoma •  
Retina •  
Refractive •



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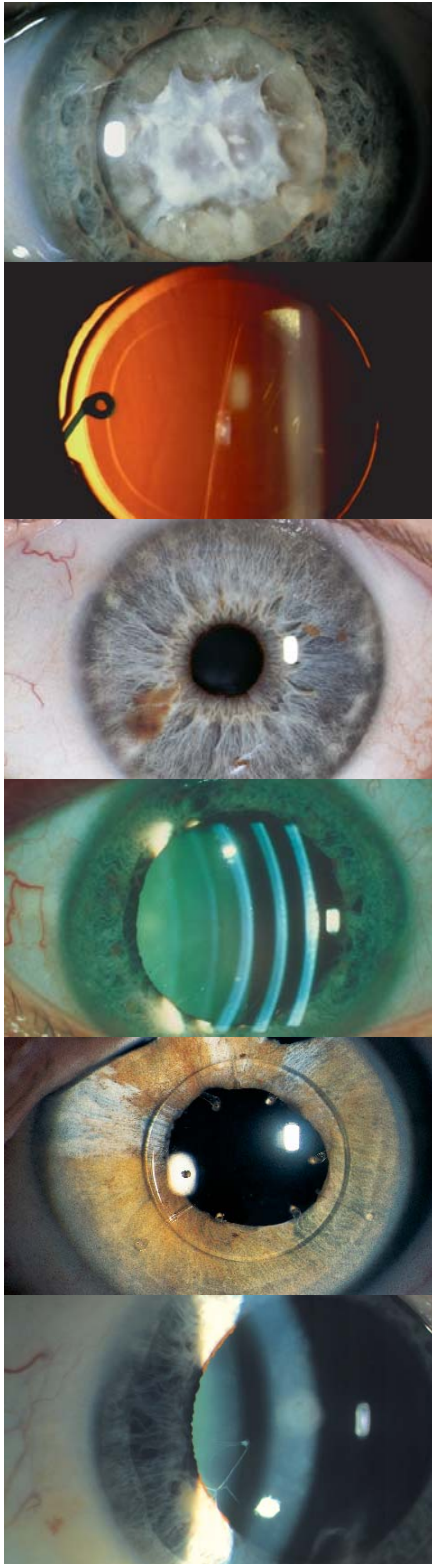
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# **SL 130 Slit Lamp. The total system focused on perfection.**



# Slit lamps by Carl Zeiss. Optics of the finest.



The successful synthesis of high optical performance and optimized operation characterizes the slit lamps from Carl Zeiss. The quality features of this system become apparent in the work with every slit lamp:

## **More light**

The excellent transmission opens up new light resources for examination and documentation.

## **More details**

The improved resolution results in images revealing finest structures at high contrast and more discernible details.

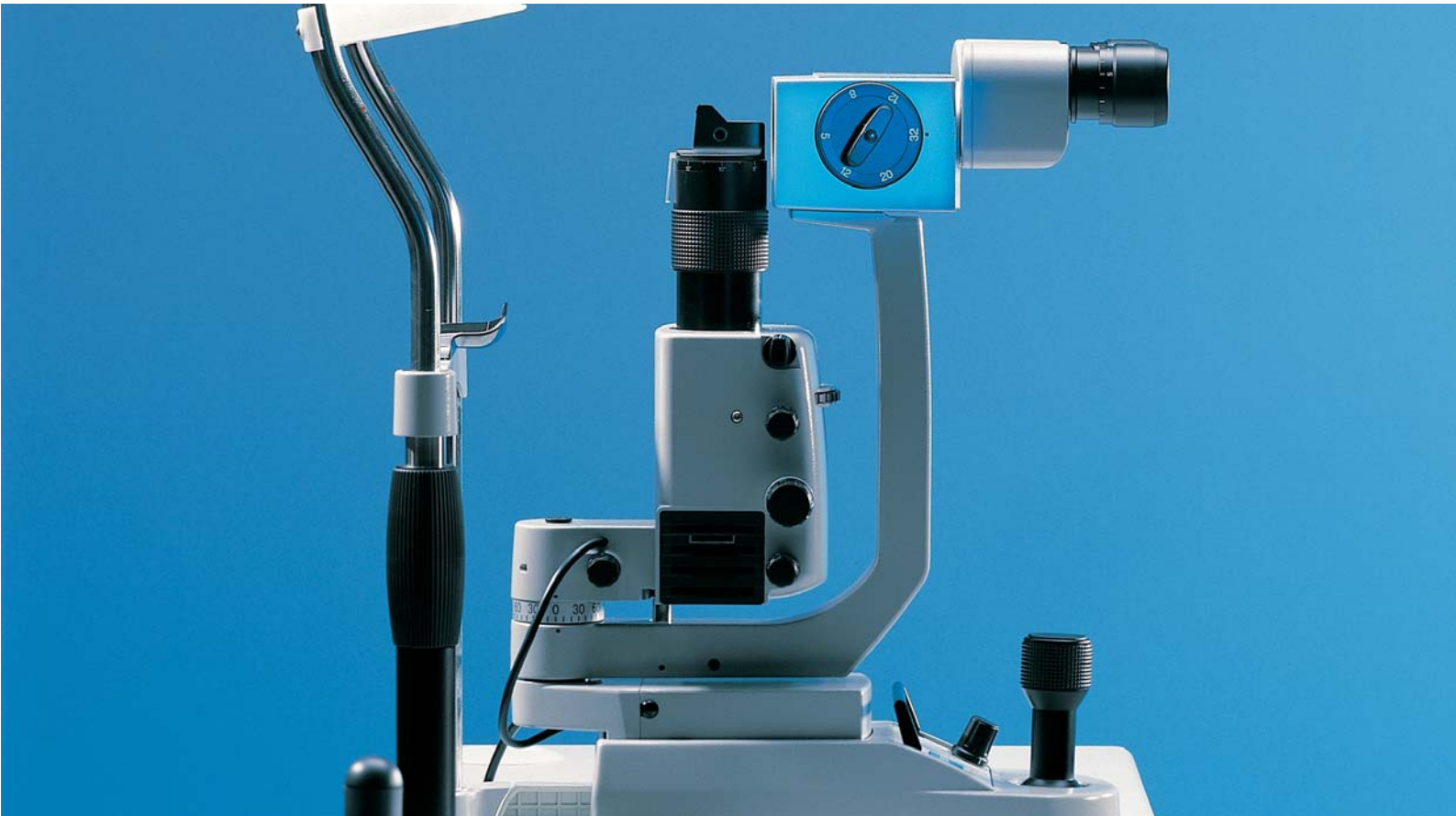
## **More operator convenience**

Super high eyepoint eyepieces provide unrestricted operating comfort also to spectacle wearers. With one hand, everything is under control: also on instrument base and lamp housing the operating concept shows itself at its best.



# SL 130 Slit Lamp.

## The full spectrum from diagnosis to laser therapy.



The SL 130 is a system of many talents. Whether for observation, diagnosis and documentation, it is the ideal total solution for your requirements.

Its optimum technical design allows the SL 130 Slit Lamp to be used in laser therapy. The controls of the slit projector are symmetrically arranged and can be operated with either the right or left hand when the projector is in its central position. The configuration also permits the use of different prism heads and a micromanipulator.

The outstanding optical system generates a brilliant, crisp image with razor-sharp definition. It's all there - slit rotation, slit decentration for retro-illumination, and an illuminated field of 14 mm. The prism head can be tilted by up to 20°.

The system's high transmission minimizes light loss. This means more light for observation and greater protection of the patient's eye against excessive irradiation.

Another benefit of the excellent transmission: more light is provided for documentation and fluorescence examinations. The choice of using either a parallel or convergent tube is also an integral part of the technical concept implemented in the system.



# Technical excellence.

The perfect observation system of the SL 130 Slit Lamp and the system's superb ease of use together form a unit sharply focused on your special requirements. The practical benefits include a short working distance, a comfortable arm and body posture, single-hand operation and optimally contoured controls for the sensitive adjustment of the slit length, width and rotation. The joystick allows fast, precise control of the slit lamp, and a quick-action lock ensures that the slit lamp can be fixed firmly in position at any time.

The extensive line of accessories for the SL 130 Slit Lamp includes devices for digital documentation, applanation tonometers, laser attachments, and a lot more besides.



*AT 020 Applanation Tonometer*

*AT 030 Applanation Tonometer*

*Laserlink*

*Yellow filter*

# Image is everything with the SL 130 Slit Lamp.

A large number of possibilities are available for documenting your results with the SL 130 Slit Lamp.

The Compact Video Camera 020 makes optimum use of the advantages offered by modern 1CCD miniature cameras. The major benefits include an extremely compact design, low weight and excellent image quality. 3CCD cameras can also be attached using a beam splitter and the appropriate additional optics.

The DigiCam adapter offers the possibility of attaching various digital cameras to the SL 130 Slit Lamp. The image quality will most definitely impress you – in both survey and slit photos. An additional, continuously adjustable illumination system is available to brighten the field surrounding the slit.

The ideal supplement to these photographic media is VISUPAC, software which has been specially developed for use in ophthalmology. It contains a professional database and a large number of image processing functions.



*Compact Video Camera 020*

*DigiCam adapter with digital camera*

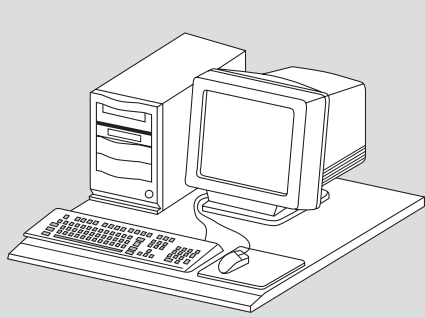
*VISUPAC*

*DigiCam adapter with digital camcorder*

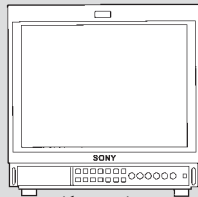
# Technical data - System overview.

## SL 130 Slit Lamp

Magnification/eyepieces	5x 8x 12x 20x 32x with 10x eyepieces with $\pm 8$ D compensation of ametropia 6x 10x 16x 25x 40x with optional 12.5x eyepieces with $\pm 8$ D compensation of ametropia
Field of view	40 -6 mm in diameter
Slit width	0 – 14 mm, continuously adjustable; index markings at 1/2/5/10 mm
Slit length	in steps 0.3 /2.5/3.5 /7/10/14 mm; triple slit
Slit rotation	continuous $\pm 90^\circ$
Slit decentration	$\pm 4^\circ$ horizontal, click stop at $0^\circ$
Swivel range of slit projector	$\pm 180^\circ$ , scale for angular difference
Angle of incidence	tiltable by $0^\circ -20^\circ$
Filters	blue, green (red-free), gray (neutral), swing-in; Heat absorbing filter, permanently integrated; screen for diffuse illumination, swing-in
Working distance	exit prism/patient's eye 66 mm
Travel of instrument base	z axis 29 mm; x axis 110 mm; y axis 90 mm
Vertical adjustment of chin rest	60 mm
Weight	basic unit 9.85 kg; headrest 1.25 kg
Illumination	6 V 20 W halogen lamp
Brightness	continuously adjustable
Line connection	100 to 240 V $\pm 10\%$ (self sensing); 50 to 60 Hz
Instrument table	asymmetrical



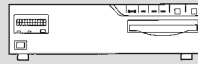
VISUPAC



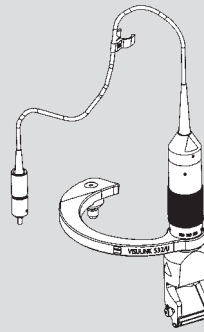
Video monitor



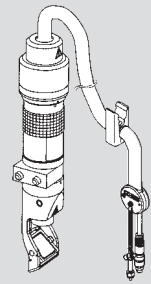
Video recorder



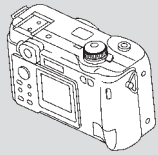
Video printer



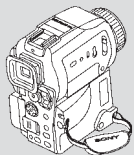
VISULINK 532/U for VISULAS 532s



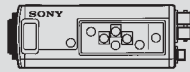
VISULINK PDT/U for VISULAS 690s



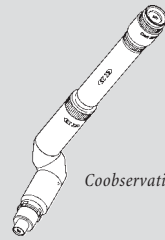
Digital camera



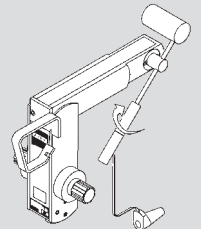
Digital Camcorder



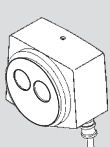
3CCD camera



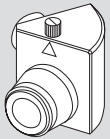
Coobservation tube



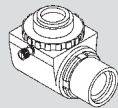
AT 020  
Applanation Tonometer



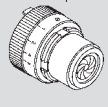
Compact video camera 020



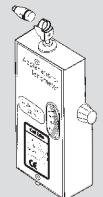
DigiCam adapter



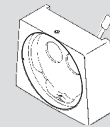
TV-adaptor with C-thread



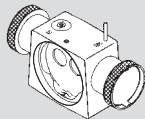
Iris diaphragm



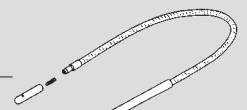
AT 030  
Applanation Tonometer



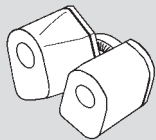
Barrier filter (yellow)



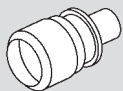
Beam splitter



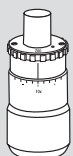
Fixation light



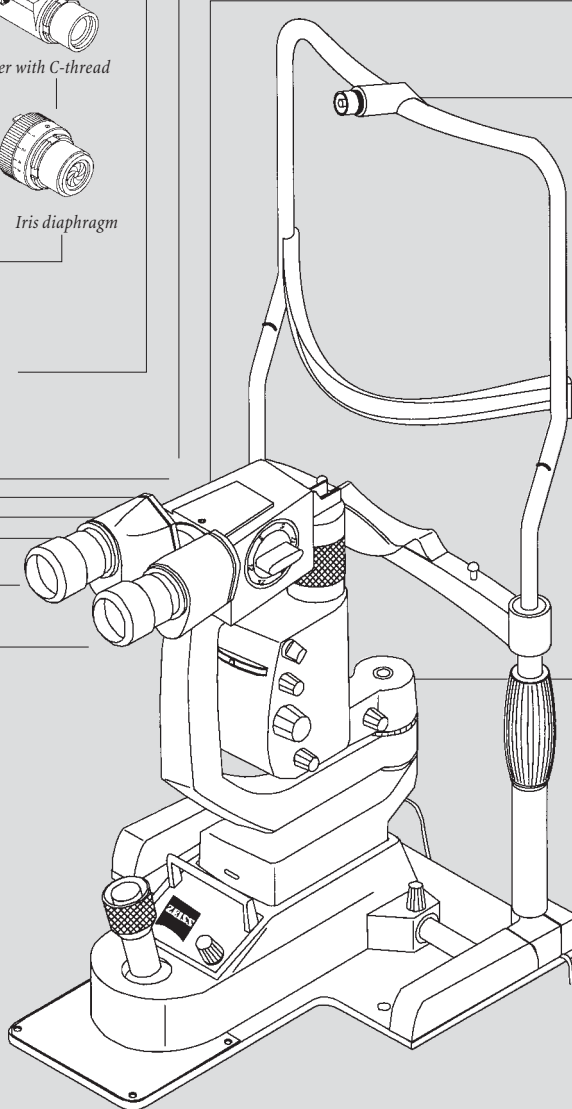
Alternatives:  
convergent- or parallel tubes



Alternatives:  
10x or 12.5x eyepieces



Measuring eyepiece



Fill-in illumination  
DigiCam illuminator