

**LED** *Slit Lamps*  
**SL-9900**  
*2x, 3x, 5x*



**LIFT**

**Electrical Table & Tabletops**

*Optional - Available Colors*





# CSO Digital SLIT LAMPS



5<sup>x</sup>

3<sup>x</sup>

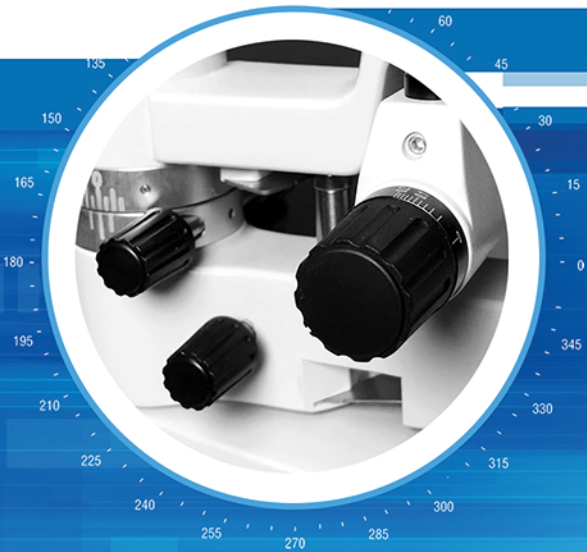
2<sup>x</sup>

ZOOM

## ⊕ ⊖ Magnification Tuners

CSO Slit lamps all provide slit lamps with stereoscopic microscope from 2x, 3x, 5x, and continuous enlargements with progressive zoom. Also added with a complete screw-out eyepieces. giving a clear, brilliant and well contrasted images, thanks to the multilayer antireflection treatment.

Features	2X	3X	5X	ZOOM
Binocular Head	Converging Stereoscopic	Galilean magnification changer with converging eyepieces		
Magnification	10x, 16x	10x, 16x, 25x	6x, 10x, 16x, 25x, 40x	6x - 33x Continuous
Light Source	LED	LED	LED	LED
Built-in Yellow Filter	No	Yes	Yes	Yes
Digital Imaging Ready	No	Yes	Yes	Yes
Optional Eyepieces	16x, 26x	No	No	No
Weight (Lbs/Kg)	49 / 22	53 / 24	45 / 20	50 / 23



## Precise Adjusters

Slit lamp SL-9900 series are built with high quality optics and precise mechanical parts, feasible for all adjustable slit positions designed for comfort and a new experience while capturing and recording the patients eyes.

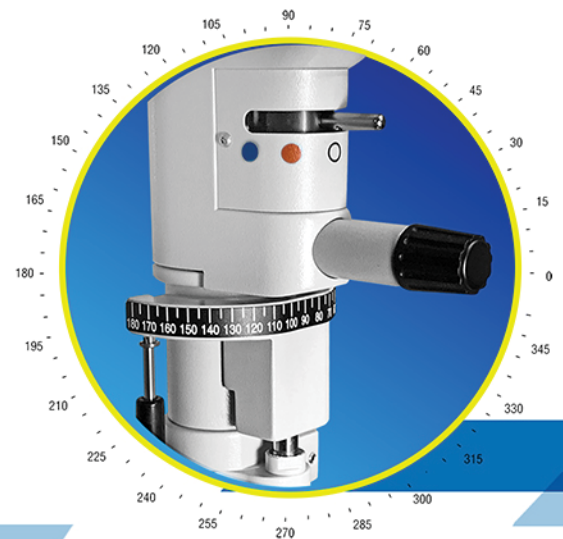


## Fire Button Joystick *Optional*

The SL-9900 Series are built with a precise, smooth and high quality joystick. It provides lateral, longitudinal and vertical movements during all patients examinations.

## Filter Insertion Control + Lever

The optical filters devices controllers can selectively transform light of different wavelengths used in many applications Available Filters: Blue, Red, Gray, Green (Red free).



## ↻ Lightning Card Red LED Reflex

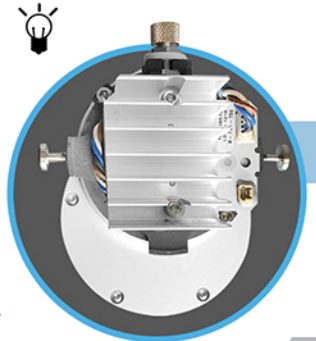
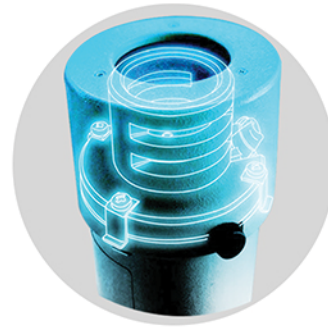
The New SL-9900 series slit lamps are built with a tilting device where the diagonal light sources can be vertically projected up to 20° with 5° intervals. This shows to be very helpful in the horizontal optical observation gonioscopy & posterior eye examination.





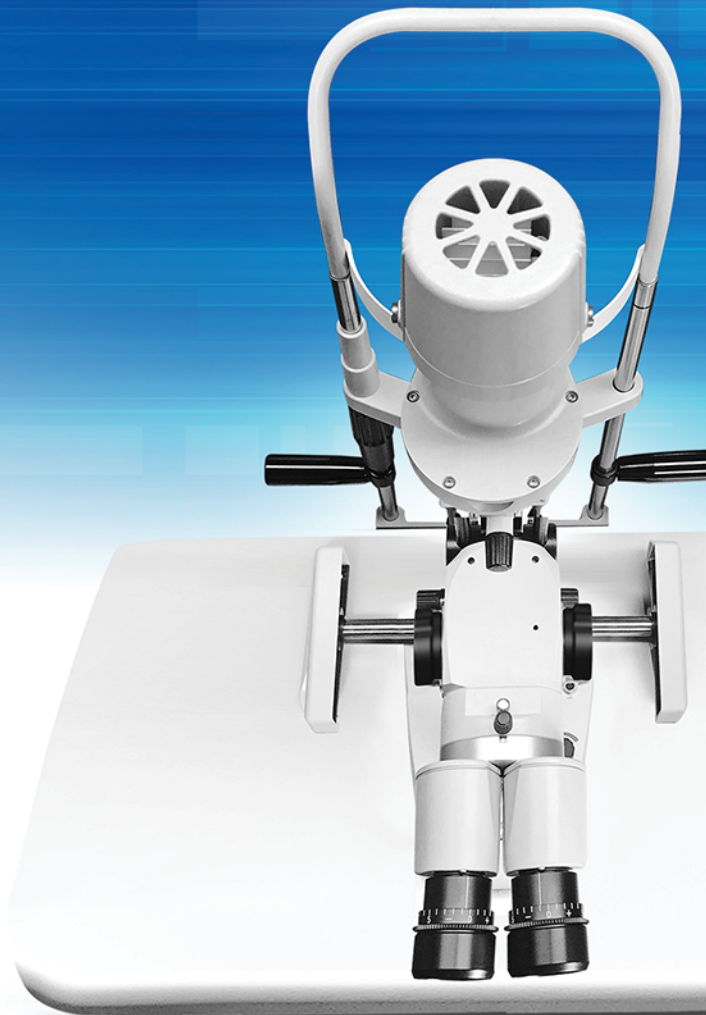
## Illumination System

CSO latest slit lamps offers an LED illumination lamp designed for accurate and detailed observations. The life of the LED is longer than 50,000 working hours.



## Quality Optics

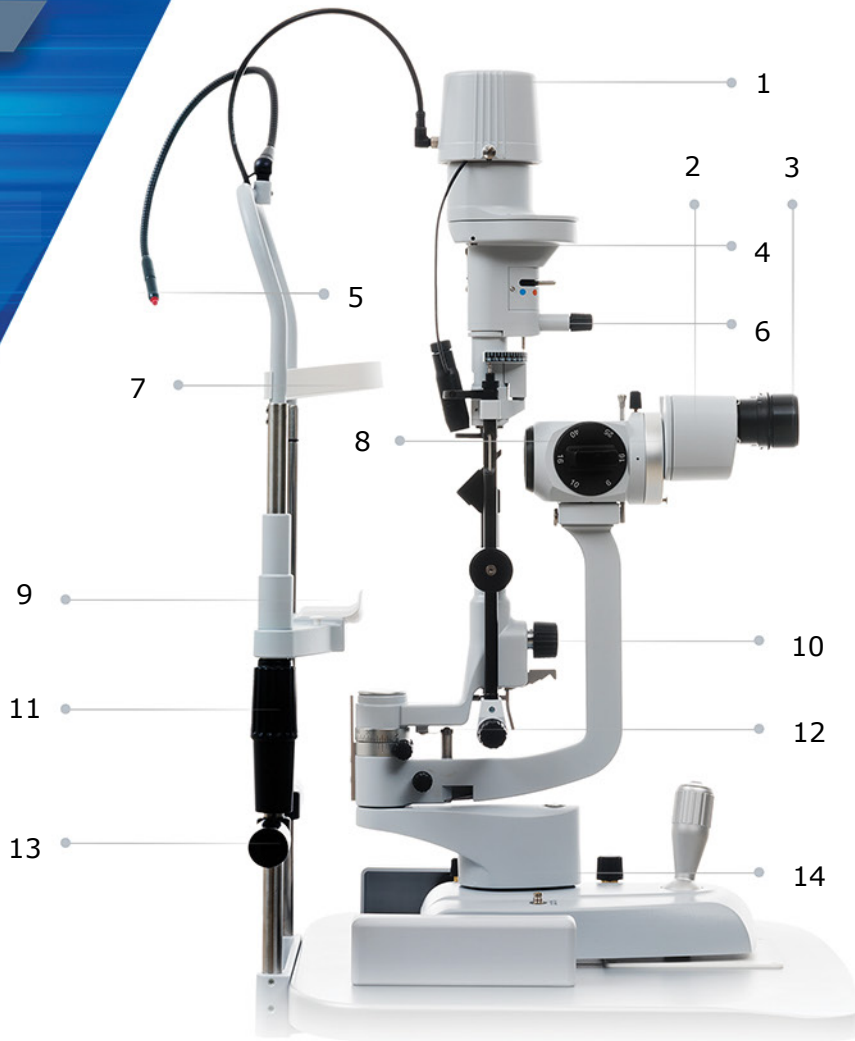
CSO SL-9900 Series slit lamps provides high quality optics and excellent image quality for all ophthalmology demands. Our slit lamps features one stereoscopic microscope with Galilean system and 5 magnifications tuners with complete screwout eyepieces.



## Digital Ready Slit Lamps

# SL-9900

2X, 3X, 5X



1. Light Bulb / LED Cover
2. Microscope
3. Extractable Eyepieces
4. Digital Video Camera Splitter
5. Fixation Point
6. Slit Height Adjuster / Tuner
7. Head Rest
8. 5X Magnification Tuner
9. Chin Rest
10. Slit Projector Head
11. Chinrest Height Adjusting Ring Nut
12. Slit Width Adjusting Knobs
13. Patient's Handle
14. Orthogonally Moving Base
15. Wheel Shields
16. Built in Fire Button Joystick (Photo & Video)



# MIZAR

**DIGITAL CAMERA**

Resolution	5Mpx
Pixel resolution	2448x2048
Camera interface	USB 3.0
Frame Rate	35 fps

CPU: I3 or higher ( suggested I5), RAM: 4 GB or higher (suggested 8 GB), OS: Win10x64, Win8x64, Win7x32, Win7x64, GPU: 1 Gbyte not shared, RESOLUTION: 1280x960 or higher





## PHOENIX Software

While the biomicroscopic examination, the Phoenix application software, allows the display of the smallest details and the acquisition of high-resolution images, videos, and plenty of storage data management for further review.

- ✓ *Image and Video Processing*
- ✓ *Patient Management Center*
- ✓ *User Friendly Interface*
- ✓ *Export and Print Functions*
- ✓ *Image and Drawing Tools*



### Easy USB Transfer

One Power cable and data line will produce data transmission quickly and easily. Neither hardware nor computer configuring is required.



### User- Friendly Interface

Simple design style and friendly interface help operators handle it quickly and efficiently



### Centralized Management

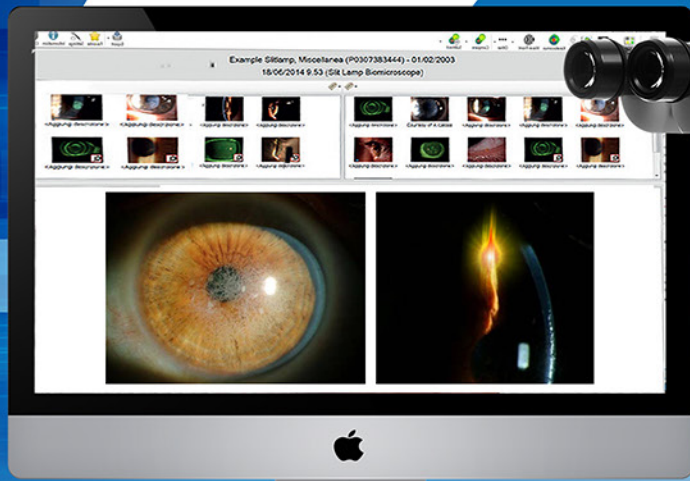
Professional patient information management platform is important to conduct centralized management for patient. This platform supports integrated function print.



The SL-9900 series slit lamps offers an excellent optional digital camera MIZAR through Phoenix software technology which manages to collect data, measurements, captures quality photos and video for all conducted examinations. Also features an image comparison, drawing tools, user calibration sources, network database, and language converters.



Monitor *Optional*



Model: 100710805



Model: 100710807



Model: 100710803



Accessory Drawer



Model: 100710801

## LIFT Electrical Tables ( LIFT-01 & LIFT-02 )

CSO sturdy and secured instrument table features an adjustable height sequence designed for 1-2 optical instrument configurations.

## Table Tops *Optional*

All CSO surfaces of these tables are designed to be very rigid with minimum deflection so that the alignment of optical elements remains stable over time



## Tonometer Z-800 *Optional*

The Z-800 tonometer provides extreme measurement accuracy. All values are directly readable on the instrument and without any standardization or calibration difficulties.



## Tonometer A-900 *Optional*

The A-900 is an accessory to any slit lamp model, used for measuring ocular pressure, amount of force needed to temporarily flatten part of your cornea and to prevent risk of developing glaucoma.





## Product Specifications

Digital Ready Slit Lamp  
**SL-9900**  
2X, 3X, 5X

### Technical Data

Slit Projection	1X
Slit Width (setting continuous)	0 – 12 mm
Slit length (setting continuous)	1– 12 mm
Slit Length (max)	12 mm
Apertures	12, 9, 5, 1, 0.2 mm
Filters	Blue, Red, Gray, Green (Red free)
Light Diffuser	Light Diffuser
Background Light	Only with Digital Vision HR
Slit Rotation	± 90° continuous (Tabo system)
Slit Angle	Variable 0°   5°   10°   15°   20°
Rotation Interval - Slit projection	±90°, angular scale, reference on 0° and ±10°
Working distance	80 mm
Joystick Push Button	Only with Digital Vision HR
Left / Right Detection	Only with Digital Vision HR
Voltage	15V DC 1A
Light Source	White LED
Brightness	248000 LUX continuous adjustment
Dimensions (HxWxD)	675 x 313 x 335mm
Weight	7 kg

Type	Convergent	Galileian convergent with magnification change system		Galileian convergent with variable magnification
Eyepiece Convergence Angle	13°			6°
Eyepieces	10x	12,5x	12,5x	12,5x
Eyepiece adjustment	±8 D.			
Magnifications	10x   16x	10x   16x   25x	6x   10x   16x   25x   40x	7X   30X
Field of View		8,5x   14,8x   25,6x	5,6x   8,5x   14,8x   25,6x   39,3x	
Interpupillary distance	18,5mm   12mm	26mm to 8,5mm	41mm to 5,7mm	30mm to 7,4mm
Barrier filter	51,5mm to 87mm	50mm to 80mm		
Barrier filter	Yellow			



### System Requirements (Version Digital HR)

PC:	4 GB RAM
Video Card:	1 GB RAM
Resolution:	1024 x 768 pixels
USB	3.0 Type A
Operating System	Windows XP, Windows 7 and Windows 10 (32/64 bit).