



SL99K Élite summarizes all the experience gained by CSO in slit lamp production into an innovative model meeting the highest standards of optical and mechanical quality.

SL99K Élite is designed to enhance the user experience in capturing images of ocular structures, making the examination easy and ergonomic.

MULTIFUNCTION JOYSTICK

It Allows for image capture, exposure adjustment, and direct selection of photo and video modes

LIGHT SOURCES

A dual-function potentiometer allows for the adjustment of the slit and background light sources.

MAIN LED ILLUMINATION

The main LED illumination source, with its low thermal emission, provides high comfort for the patient during biomicroscopic examination. The color temperature of the light emission remains constant regardless of its intensity.

AUXILIARY LED ILLUMINATION

The auxiliary light source can provide background illumination to optimize image capture with the camera, which also allows for the capture of Meibomian glands.

MICROSCOPE

A five-step microscope associates the magnification with the image captured by the camera in real-time during the slit lamp examination.

DIAPHRAGM

To enhance the depth of field in images, the slit lamp is equipped with a diaphragm that also integrates with the application software

YELLOW BARRIER FILTER

It allows to increase contrast during biomicroscopic examination with fluorescein

CHIN REST

In addition to allowing the adjustment of the examined patient's height, the widened section arc facilitates the observation of the patient with auxiliary lenses.

DIGITAL CAMERA

The Mizar digital camera, thanks to its high resolution and automatic exposure adjustment, enables high-quality video and image capture of ocular structures.

ACCESSORIES

POLARIS

Allows for the analysis of the lipid layer of the tear film and a qualitative assessment of break-up time.

TONOMETERS

The SL99K Élite slit lamp is compatible with CSO applanation tonometers models F900 and A900.



ELITE DIGITAL VERSION

TECHNICAL DATA

Illumination	
Illuminator	White LED (main and background)
Slit projection index	1,25 x
Slit length (continuous setting)	1 – 15 mm continuous
Slit width (continuous setting)	0 – 15 mm continuous and fixed apertures
Maximal length of the slit	15 mm
Aperture diaphragms	∅ 15/10 / 5 / 3 / 1 / 0.2 mm
Filters	Blue, red, green (red free), ND50%
Slit rotation	±90° continuous on Tabo system
Rotation interval of the slit projecton	±90°, 0-180° tabo scale steps 10°, reference on 0°,45°,90°,135°,180° and ±10°
Vertical tilt	0° / 5° / 10° / 15° / 20°
Horizontal tilt	± 10° reference on 0°
Operation distance (mirror/patient's eye distance)	80 mm
Luminosity adjustment	Continuous adjustment
Luminous intensity	220000 Lux
Microscope	
Type	Galilean convergent with magnification change system -5 positions
Ocular convergence angle	6°
Stereoscopic angle	10°
Overall magnification	6 x, 10 x, 16 x, 25 x, 40x (real 5,6x / 8,5x / 14,8x / 25,6x / 39,3x) magnifications are automatically recognized by Phoenix software when the user takes the pictures
Eyepiece magnification	12.5x
Range of adjusting eyepieces	+8 to -8 diopters
Inter pupillary distance	50 – 80 mm
Yellow filter	included
diaphragm	Adjustable by the user
Inclined eyepiece	Optional
Digital camera	
Sensor size	2/3"
Resolution	2248x2048
Dynamic range (sensor)	73 dB
Frame rate (frames per second)	35
Interface	USB 3.0