

CSO CL990 Digital Vision System

The new SL Digital Slit Lamp is placed on the top of CSO slit lamps gamma, by merging high quality optics with a high-resolution digital camera and a complete and sophisticated software package.

The Digital Slit Lamp gives to the specialist a lot of options and it can provide excellent eye anterior segment images, high definition fluoresceinic and fundus pictures.

The modern optic system included in the SL990 is based on a multilayered antireflection treatment that ensures a more effective light transmission giving a 20% improvement both in optic resolution and contrast.

The galileian convergent binocular microscope 5x, by using an 8 degree binocular tube convergence, combined to the galileian system, provides a better image fusion with a better user comfort. The standard binoculars 12.5X give 6X, 10X, 6X, 25X and 40X zoom factors.

To get a more contrasted the fluoresceinic image observed with blue light, a Wratten Kodak #12 yellow filter is directly integrated in the microscope box. The CSO system let the user to insert or take off the filter instantaneously.



The halogen 6V 20W / 12V 30W lamp achieves an excellent luminous efficiency and a high quality colour temperature, The vertical tilting system let the user to light the eye till 20' by a 5' step. This is useful in horizontal optical examination, in gonioscopy and in retinal examinations.

A regulator controls the slit light intensity and is placed near by the joystick that moves both horizontal position and elevation. Operations in this case are easy, fast and sharp.

During slit acquisitions an optic fibre system provides diffused background light to the eye; in this way such parts of the eye placed in dark zone can be examined. The diagnostic functionality of the SL990 and SL980 slit lamps are constantly developed with the collaboration of most famous Italian and European hospitals, medical institutions, clinics and eye care centres.



The Digital Vision System designed by CSO can be added to CSO Slit Lamps and is composed by an excellent digital camera with a Sony CCD sensor with a maximum resolution of 1392x1040 pixels.

The system is able to acquire and save high-quality pictures and videos by using a High Quality Colour Correction Algorithm. Camera performances are maximized by excellent software and future upgrades of the camera firmware will be simply downloadable from the Internet. CSO provides the optimum quality/price solution.

Software features

- Patient data and exams management
- Easy pictures and video acquisition
- Live video window
- Unlimited Images gallery
- Images comparison
- Measurements tools
- Drawing tools
- Image processing standard tools
- User-definable calibrations
- Sources: CSO FireWire Camera, Standard analogue camera (with optional Video Converter), Twain
- Networkable - patients' database on TCP/ I P protocol
- Languages: English, French, German, Spanish and Italian

The software can be integrated with corneal topography software with contact lens fitting capabilities.

Technical Specification

- Image Device : 1/2" Type progressive scan Sony IT CCD
- Picture Size : Up to 1392 x 1040 pixel
- Cell Size : 4.65 x 4.65
- Resolution Depth : 8 bit
- Digital Interface : IEEE 1394a; DCAM V1.30
- Transfer Rate : 400 Mb/s
- Frame Rates : 11 fps
- Gain Control : Manual: 0-20; Auto Gain
- Shutter Speed : from 20 ms to 67 sec: Auto Shutter
- Advanced Features : Real Time Shading, Built-in FIFO Memory, programmable LUT
- 2 programmable Inputs, 2 programmable outputs, Delayed Image Transfer
- Operating Temperature : from +5 degrees C to 45 degrees C
- Power requirements : DC8V - 36V via IEEE 1394 cable
- Power Consumption : Less than 3W (@12V DC, directly from Firewire Cable)_
- Dimensions : 90mm (H) x 87 mm (W) x 39 mm (D)

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