

Slit Lamp Biomicroscope

 A unique instrument that permits magnified examination of transparent or translucent tissues of the eye in cross section.

Slit Lamp Biomicroscope

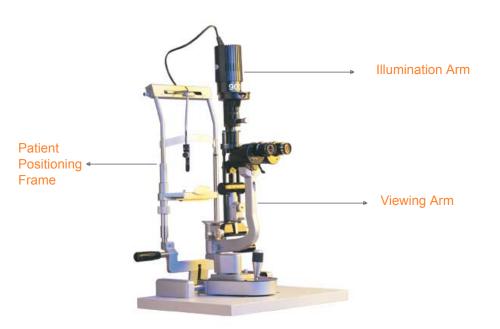
- Enhances the external examination by allowing a binocular, stereoscopic view; a wide range of magnification; and illumination of variable shapes and intensities.
- Using specialized attachments and lenses, also permits applanation tonometry, fundus exam and gonioscopy.

Slit Lamp Biomicroscope

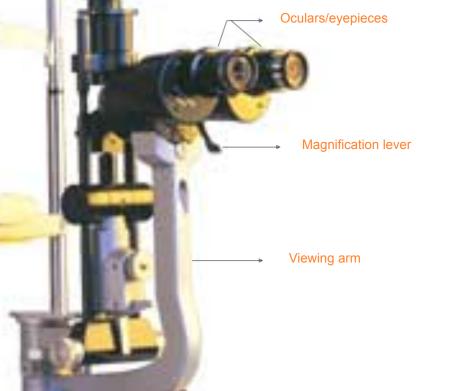
- It is used for examination of the anterior segment (A/S), which includes the anterior vitreous and those structures anterior to it.
- Most of A/S tissues except the anterior chamber angle and the posterior surface of the iris are directly visible with the slit lamp alone.

Parts of the SL

- 1. The Viewing Arm; containing the eye piece and the magnifying elements.
- 2. The Illumination Arm; containing the light source and its many controls.
- 3. The Patient Positioning Frame



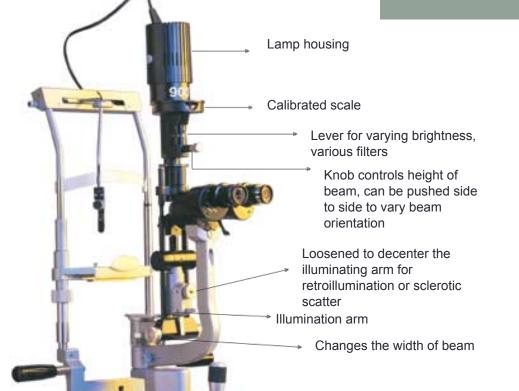




The Illumination Arm

 The illumination arm and the viewing arm are parfocal; the image of the source of illumination and the image being viewed by the examiner are both in focus at the same location at any given time when focus for viewing has been established

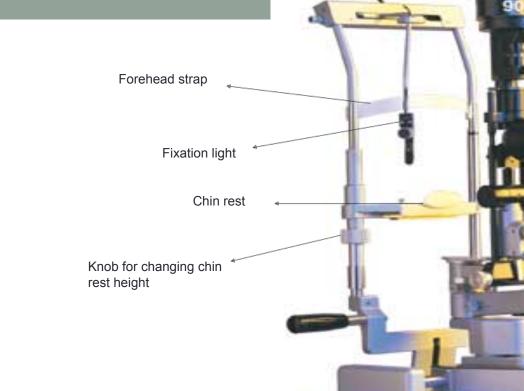
Can be swung 180°side to side



The Patient Positioning Frame

 Consists of 2 upright metal rods to which are attached the forehead strap and the chin rest.

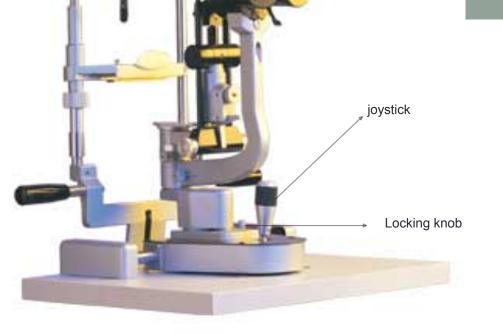




The Base

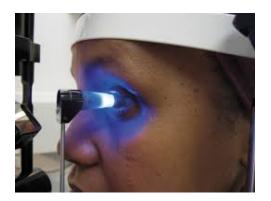


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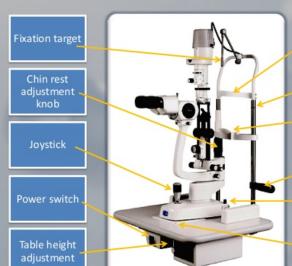
Other Attachments

Applanation tonometer



Cont...

Parts of mechanical system:



Forehead band

Canthus alignment

Chin rest

Hand grip for patient

Lock for slit lamp base

Low friction plate

The End