

SLIT LAMP ESL-1800

EXPERIENCE UNPARALLELED
CLARITY AND VERSATILITY.



ELI
EZer®

ESL-1800

The ESL-1800 Slit Lamp by Ezer offers exceptional wide-field optical performance with a Carl Zeiss style illumination system and advanced Galilean optics. Its classic design features precise joystick and knob controls, five-step magnification (6x to 40x), and a high luminance halogen lamp. With three easily interchangeable filters, the **ESL-1800** combines excellent functionality and affordability, making it a valuable addition to any practice. The **ESL-1800** features a conveniently placed rheostat near the joystick for easy, one-handed adjustments. The slide base enhances control with improved X-Y motion. Additionally, the transformer and tabletop are interchangeable.

The **ESL-1800** Slit Lamp is designed for efficient use of space and ease of access. It includes a compact instrument tabletop, transformer, and an accessory drawer for storing the focusing test rod and other essentials.

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FEATURES

• CLASSIC ILLUMINATION AND ADVANCED OPTICAL CLARITY:

The ESL-1800 Slit Lamp by Ezer combines a Carl Zeiss style classic illumination system with a Galilean converging binocular ocular system for optimal performance. Its classic design provides easy access during eye examinations and contact lens fittings, with the illumination system positioned at the same level as the observation system. A rotating drum knob allows for convenient magnification adjustments. The Galilean stereoscopic microscope offers exceptional clarity and sharpness, projecting images to infinity through a tele-centric optical path viewed by a stereo tube. This advanced setup delivers one of the best zoom ratios in its class, ensuring sharp image clarity and detail.

• FIVE-STEP DRUM

MAGNIFICATION: The ESL-1800 features a convenient five-step drum magnification system, allowing for effortless switching between magnification levels during the exam.

• **LARGE BINOCULAR FIELD OF VIEW:** The Ezer ESL-1800 features a wide binocular field of view with various sizes and an adjustable depth of focus. Its eyepieces accommodate a wide range of pupillary distances, ensuring a comfortable and fatigue-free examination experience.

• INTEGRATED CONTROL JOYSTICK:

The ESL-1800 features an intuitive joystick for effortless control and sharp image acquisition. It offers flexible movement options, including forward and back, left and right, as well as fine and vertical adjustments. The joystick allows for precise horizontal fine-tuning and vertical height alignment. Once the desired alignment is achieved, the base can be securely locked to prevent any sliding.

• ERGONOMICALLY DESIGNED ILLUMINATION

CONTROL: The ESL-1800's classic design features a smoothly integrated joystick and controls for precise operation. The illumination lever is conveniently positioned next to the joystick, and the brightness control switch offers three settings to simplify diagnostic procedures.

• HIGH CLARITY LUMINANCE AND BUILT-IN

FILTERS: The ESL-1800 features a high luminance 6-volt, 20-watt halogen lamp for exceptional clarity. It includes three built-in filters that can be easily changed: a heat absorption filter for patient comfort, a red-free filter for enhanced contrast, and a cobalt blue filter for fluorescein assessment.

• CONTINUOUS SLIT ROTATION AND APERTURE ADJUSTMENT:

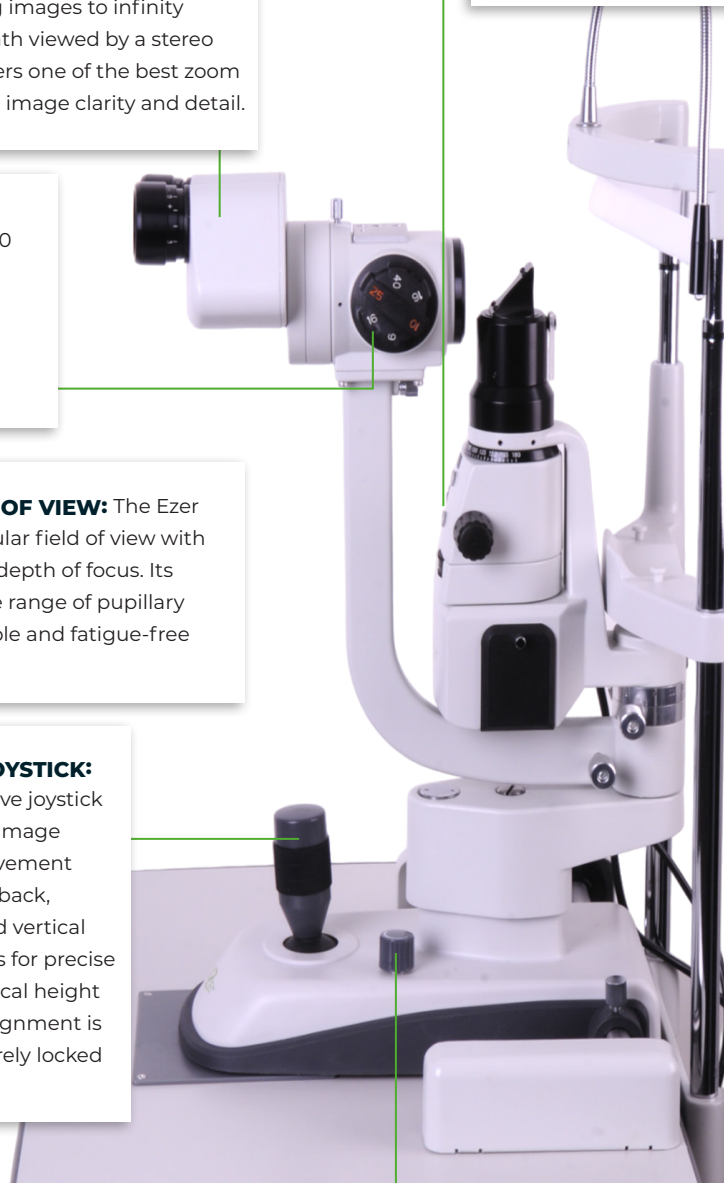
The ESL-1800 allows continuous adjustment of slit width from 0mm to 14mm and slit height from 1mm to 14mm. At full aperture, it offers circular beams of light in 14mm, 9mm, 5.5mm, and 0.3mm sizes. The slit image can be rotated horizontally and vertically from 0° to 180° for precise examination.

• RED LED FIXATION LIGHT FOR ACCURATE DIOPTR

COMPENSATION: The ESL-1800 includes precise diopter adjustments, calibrated for emmetropia with a Focus Test Rod ensuring accuracy. Its Red LED Fixation Light, featuring a dot target, helps in diopter compensation adjustments from -15D to +10D. This feature is particularly useful for examining patients with refractive errors beyond the standard range.

• APPLANATION

TONOMETER: This slit lamp can be equipped with TN-180B applanation tonometer to measure the intraocular pressure. The TN-180B tonometer does not include a Mount Adapter for connection to the slit lamp.



SPECIFICATIONS

MICROSCOPE	Type	Galileo Magnification Changer with Converging
	Magnification	5 Step by Drum Rotation
	Eyeiece	12.5x
	Total Magnification Rate	6x,10x, 16x, 25x, 40x
	Field of View	6X(Ø33mm) 10X(Ø22.5mm) 16X(Ø14mm) 25X(Ø 8.8mm) 40X(Ø5.5mm)
	Range of P.D. Adjustment	2.16 to 3 in (55 to 75 mm)
	Diopter Adjustment	-5D to +3D
ILLUMINATION	Slit Projection Magnification	1.16x
	Slit Width	continuous from 0mm/0in to 14mm/0.55in (at 14mm/0.55in, slit becomes a circle)
	Slit Height	continuous from 1mm/0.04in to 14mm/0.55in
	Aperture Diameter	Ø0.55, Ø0.35, Ø0.22, Ø0.012 in(14, 9, 5.5, 0.3 mm)
	Slit Angle	0° to 180° continuously adjustable from vertical to horizontal
	Slit Inclination	
	Filter Piece	heat-absorption, red-free and blue
MOVEMENT BASE	Illumination Bulb	6V 20W halogen bulb
	Back and Forth Movement	90mm/3.54in
	Left and Right Movement	100mm/4in
CHIN-REST PARTS	Fine Vertical Movement	15mm/0.6in 30mm/1.2in
	Vertical Movement	80mm/3.15in
POWER SOURCE	Fixation Target	Red-LED
	Input Voltage	100/220V ~±10%
	Input Frequency	50/60 Hz ±1Hz
	Input Power	30VA
	Output Voltage	Illumination bulb 4V, 5V, 6V Fixation target 6V
DIMENSION AND WEIGHT	Packing Box	720 x 495 x 480mm 28.35 x 19.5 x 19in
	Total Weight	23 kg / 50.6 Lb
	Net Weight	17 kg / 37.4 Lb