

**Frey**



# Digital Slit Lamp

## SL-100 & SLI-200

[freymedical.eu](http://freymedical.eu)

## **SL-100 Lamp - Advanced LED DIGITAL Slit Lamp Microscope.**

Powerful combination to visualize, improve workflow and share results.

FREY SL-100, advanced digital slit lamp microscope is designed for high performance, accurate diagnostics, reliability and patient comfort. Brilliant optics result in stunning image quality and resolution. An innovative LED illumination system with integrated eye illumination and digital camera delivers superb clinical viewing. FREY SL-100 digital slit lamp provides unique quality with fully integrated design already at manufacture stage and does not require external PC. Implement efficient, high-level work flow and integration into clinical practice, with less complicated and more integrated device.

### **Digital camera ready**

Frey SL-100 integrates specialized componentry to connect and control Frey bespoke digital imaging system. Push button joystick and eye illumination system controls are elegantly integrated. Simply add digital camera system allowing clinicians to enjoy outstanding ergonomics and complete control over the imaging process clinical examination.

### **LED illumination system**

The LED illumination source eliminate heat and infra red emissions associated with traditional light sources and ensures optimal diagnostic detail from the cornea to the retina. LED exhibits superior duty cycle and reduces medical device maintenance and downtime significantly. LED light intensity is precise and easy to use, delivering a sharp and bright slit for superior performance and control.

### **Improve clinical workflow**

Superb mechanics, Frey SL-100 is very easy to operate. Frey combines modern design and enduring performance providing the clinician with fatigue free examinations every day. Yellow contrast enhancing filter for additional contrast is cleverly integrated into the optical body of the microscope, and can be subtly operated for viewing corneal staining.

### **Stream to multiple screens**

Stream images and videos across multiple devices. FREY SL-200 allows you to collaborate with other health care professionals, share knowledge and discuss diagnosis, improve clinical outcomes in real time, easily. Ideal for general practices, educational and training institutions. Video streaming and photo sharing enhance clinical collaboration and education.



**SL-100 & SLI-200**  
**Key features**

## L/R eye detection

Frey slit lamps are equipped with advanced eye detection technology that automatically identifies whether the left or right eye is being examined. This feature enhances the diagnostic process, providing a seamless experience for both the clinician and the patient.

## Stunning AMOLED tech

AMOLED screen provides superb image quality - better contrast, higher brightness, fuller viewing angle, a wider colour range to capture even the greatest detail of the eye. AMOLED consume less power, enables Frey to simplify the unique design that is ultra-thin with better durability.

## Work wirelessly

Use fast, stable and reliable Wi-Fi AC or Bluetooth 4.2 to connect all your devices. Simplify workspace and improve clinical workflows.

## Out of the box & stand alone

Frey SL-100 & SLI-200 combo does not require external PC or any other device to operate. All cables remain hidden in an ergonomic and minimalistic design. The eye lighting system, which can be controlled using the knob built into the lamp base, is included.

## Large & reliable internal storage

Result and image management is an essential part of doctor's workflow. FREY SL-200 simplifies and speeds up the work with 128GB internal storage. Gather a large number of heavy files. Select, the most interesting photos and sent them to you smartphone - without cluttering it.



## Technical specification and devices details.

Slit, Projection system and Base general data		SL-100 Digital Slit Lamp				
Slit width (continuously adjustable)	0 - 16 mm					
Maximum slit width	16 mm					
Slit length (continuously adjustable)	1.1 - 16 mm continuously variable					
Slit projection scale	1.2 x					
Slit aperture diaphragms	0.3/ 1/ 3/ 5/ 9/ 16 mm					
Filters	clear, blue, natural density, yellow, diffuser, red-free					
Slit rotation	0° - 180° with reference scale					
Vertical slit tilting angles	0°/ 5°/ 10°/ 15°/ 20°					
Slit projection angle	90° - 0° - 90° with reference scale					
Working distance - eye of patient/ prism surface	85 mm					
Fixation lamp	green lamp					
Chin-rest height adjustment	59 mm					
Base travel	103 mm X-axis, 100 mm Y-axis, 35 mm Z-axis					
Stereoscopic Microscope						
Microscope type	Convergent binocular optical microscope @ 8°					
Magnification power selection system	Five position rotating drum					
Eyepiece	12.5 x					
Magnifying powers	6x	10x	16x	25x	40x	
Field of view [mm]	36	22	14	9	5.6	
Distance between pupils	48.5 - 80 mm					
Objective lens working distance	111 mm					
Objective lens working angle	12°					
Eyepiece diopter adjustment	from -5D to +5D					
Camera						
Screen	AMOLED 5' touch screen					
Sensor	CMOS Image Sensors with a 3.45 µm Pixel					
Memory	128 GB internal high endurance flash storage					
Image processing technology	HDR, Global Shutter Function					
Photo resolution	2048x1536 px					
Movie resolution	960x720 px					
Communication	Bluetooth 4.2, Wi-Fi AC					
Depth of colour	up to 12 BPP					
Other features	Video streaming to multiple devices					
	Photo & video capture					
	Automatic L/R eye detection					

