Frey

CE

MANUFACTURED
IN EUROPEAN UNION





Digital Slit Lamps
SL-100 & SL-110
with SLI-200
Digital Imaging System

freymedical.eu

SL-100 & SL-110 Slit Lamps - Advanced LED Slit Lamps Microscopes with SLI-200 Digital Imaging System.

Powerful combination to vizualize, improve workflow and share results.

FREY SL-100 & SL-110 are advanced digital slit lamp microscopes 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 SLI-200 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.

Improve clinical workflow

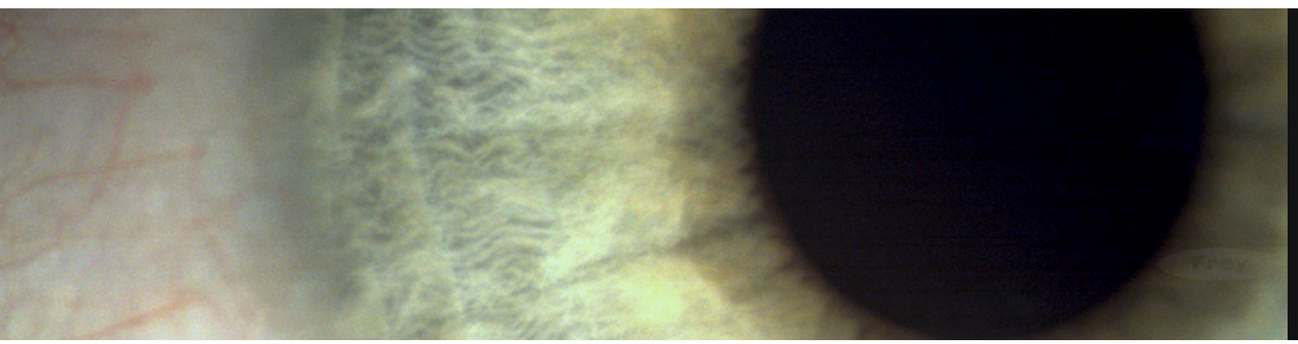
Superb mechanics, Frey SL-100 is very easy to operate. Frey combines modern design and enduring performance providing the clinician with fatigue free examinations every day. Yellow contrast enhancing filter for additional contrast is cleverly integrated into the optical body of the microscope, and can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

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.

Stream to multiple screens

Stream images and videos across multiple devices. Frey SLI-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.



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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

Work independently and efficiently. Frey SLI-200 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.

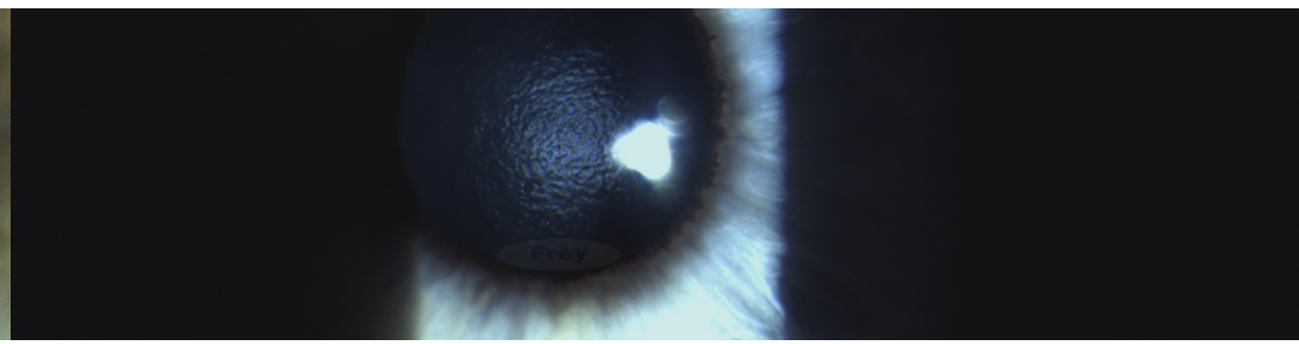
Large & reliable internal storage

Result and image management is an essential part of doctor's workflow. SLI-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.

Eyemager application support

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FREY Digital Slit Lamp + Imaging System + Eyemager application

- operation management of the ophthalmology clinic at a higher level.

Powererful combination of FREY Digital LED Slit Lamps SL-100/ SL-110 and Digital Imaging System SLI-200 leads eye care professionals into another dimension of practice organization and management. Slit lamps equipped with build in software are efficient tool themselves. SLI-200 can transmit stored in internal memory images and videos and stream live video over Wi-Fi to multiple devices simultaneously: PC computers, tablets and mobile phones. But we went further - we have created Eyemager, software available at no additional cost. Eyemager is an application for Windows, MacOS, iOS, Android. Download Eyemager to your PC, tablet, smartphonne to take full advantage of the possibilities FREY digital imaging suit gives.

Slit lamps with imaging system on the market.



FREY



SL-100
LED digital Slit Lamp

SLI-200
Digital Imaging System with software

Say NO to:

Cables around.
Additional devices distracting patient.
Questions like: what camera or smartphone to use?
Money spent on additional computers and software.
Lack of connection between couple of practices (network).
Time spended on coping with toublesome workflow.
Time wasted for organizing the workplace.
Problems with managing patients data.
Wasting space in examination room.
Communication inside practice.

Just perform the examination easily with:

One, stand-alone device.
Power and signal cables inside slit lamp componentry.
Capture initiating push button integrated into joystick.
Power supply and eye illumination circuits inside the base.
Designed with built in computer with large internal memory, AMOLED touch display and Wi-Fi communication.
Integrated eye detection sensor for automatic left/right eye detection.

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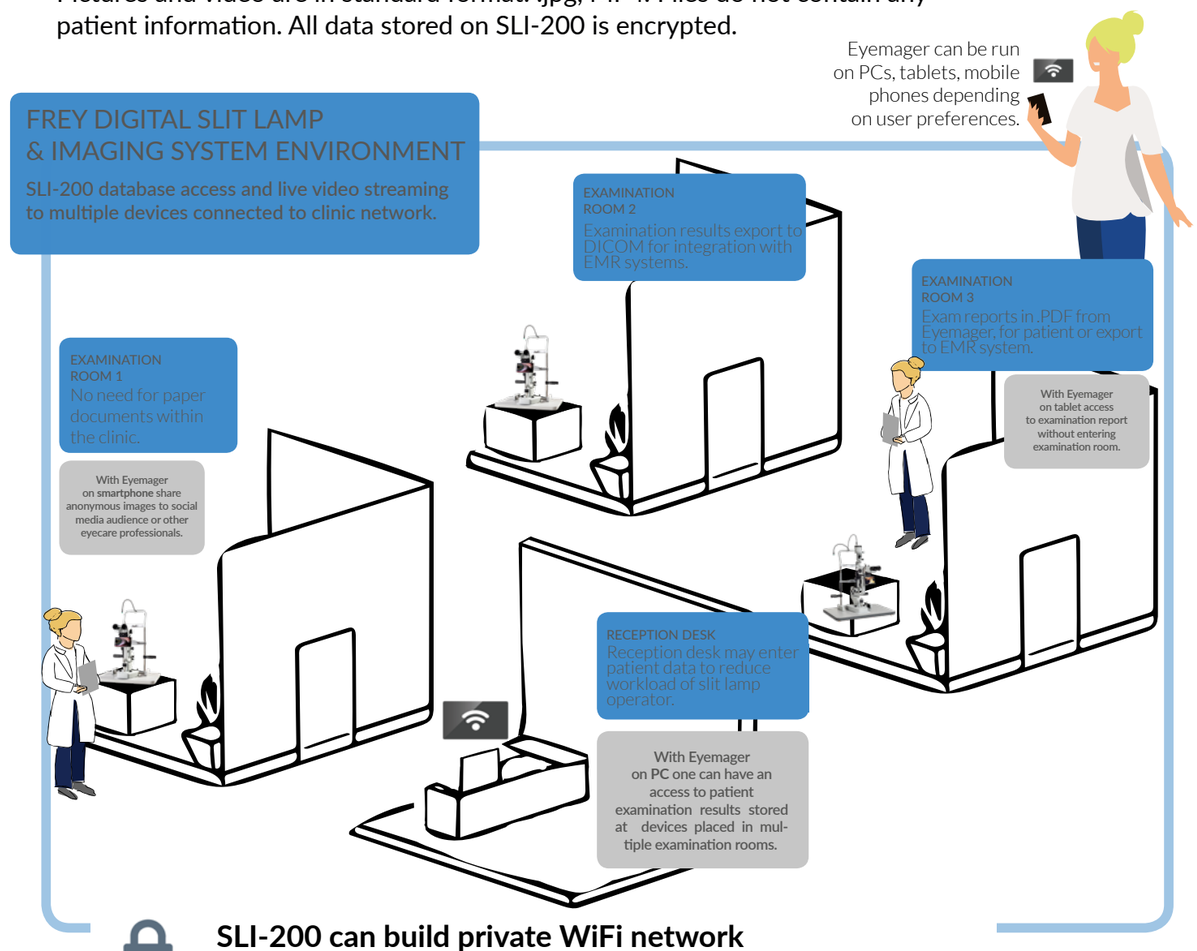
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Eyemager™

Eyemager allows to:

Access SLI-200 stored data.
Manage patient records.
Review examination results.
Analyze pictures and videos.
Create examination reports in .pdf format.
Export examination results to: DICOM for EMR integration.
Sharing pictures and videos via email, WhatsApp, Messenger, Instagram, etc.*

Pictures and video are in standard format: .jpg, MP4. Files do not contain any patient information. All data stored on SLI-200 is encrypted.



SLI-200 can build private WiFi network
– similar to Personal Hotspot known from mobile phones.

No need to invest in networking infrastructure.
Multiple devices may connect simultaneously to SLI-200.
Patient records always stored on SLI-200.

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Technical specyfication and devices details.

Device type	SLI-200 Imaging System
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
Depht of colour	up to 12 BPP
Other features	Video streaming to multiple devices
	Photo & video capture
	Automatic L/R eye detection

Slit, Projection system and Base general data	SL-100 Digital Slit Lamp					SL-110 Digital Slit Lamp				
Minimum slit opening	0 mm					0 mm				
Slit maximum lenght	14 mm					14 mm				
Continuously adjustable slit length	1.8 - 14 mm continuously variable					1.8 - 13 mm continuously variable				
Slit projection scale	1.2 x					1.2 x				
Slit aperture diaphragms	0.2/ 1/ 3/ 5.5/ 9/ 14 mm					1.8/ 0.2 / 5.5 / 9 / 14 mm				
Filters	clear, blue, natural density, yellow, diffuser, red-free					clear, blue, yellow, diffuser, red-free, red				
Slit rotation	0° - 180° with reference scale					0° - 180° with reference scale				
Vertical slit tilting angles	0°/ 5°/ 10°/ 15°/ 20°					0° - 180° with reference scale				
Working distance - eye of patient/ prism surface	75 mm					75 mm				
Fixation lamp	green lamp					green lamp				
Chin-rest height adjustment	59 mm					59 mm				
Base travel	103 mm X–axis, 100 mm Y–axis, 35 mm Z–axis					103 mm X–axis, 100 mm Y–axis, 35 mm Z–axis				
Stereoscopic Microscope										
Microscope type	Convergent binocular optical microscope @ 8°					Convergent binocular optical microscope @ 8°				
Magnification power selection system	Five position rotating drum					Five position rotating drum				
Eyepiece	12.5 x					12.5 x				
Magnifying powers	6x	10x	16x	25x	40x	6x	10x	16x	25x	40x
Field of view [mm]	36	22	14	9	5.6	36	22	14	9	5.6
Distance between pupils	48.5 – 80 mm					48.5 – 80 mm				
Objective lens working distance	111 mm					111 mm				
Objective lens working angle	12°					12°				
Eyepiece diopter adjustment	from -6D to +6D					from -5D to +5D				

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