



## SL Imaging Module from ZEISS

Convenient documentation





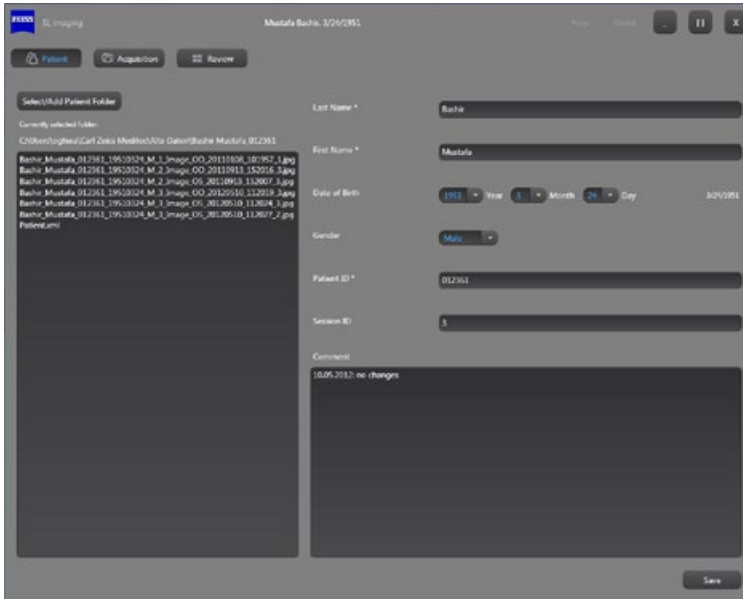
## Best practice record keeping: documentation

In today's eye care practices, documentation is essential of accurate record keeping – starting with slit lamp examinations. Captured slit lamp images and videos serve as a baseline for follow-up visits, to monitor risk patients and to provide continuity of care. They are also highly effective for patient education and consultations, for communication between eye care specialists and referrals as well as to demonstrate clinical decisions.

That is what the SL Imaging Module from ZEISS is designed for. As an integral part of every ZEISS slit lamp, it easily captures high-quality images and videos. It provides eye care professionals with a consistent and comprehensive means for documenting examination results.

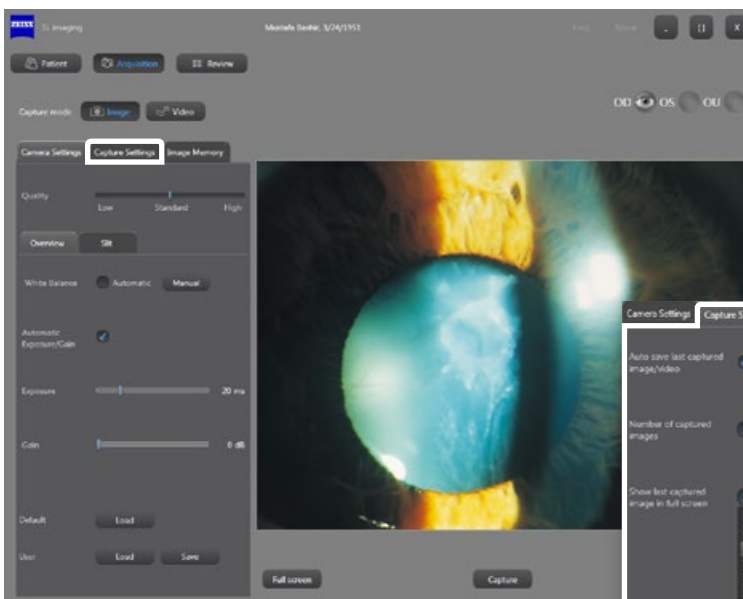
# SL imaging software

## Features overview



### Patient Data Display

Enter data of new patients during the first visit or access patient data already stored in the software. Patients can be assigned a session ID. A commentary box offers space to enter additional information.

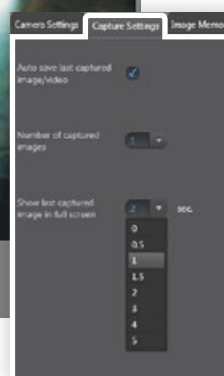


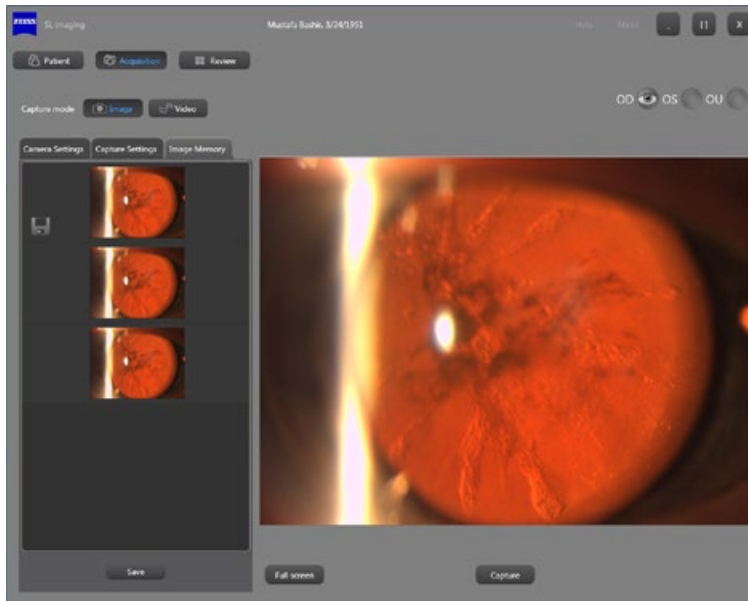
### Acquisition Display with Camera Settings

The live image is displayed in the acquisition mode. Users can adjust camera settings to suit personal preferences and exam room conditions. For example exposure time and gain for overview and slit images.

### Capture Settings

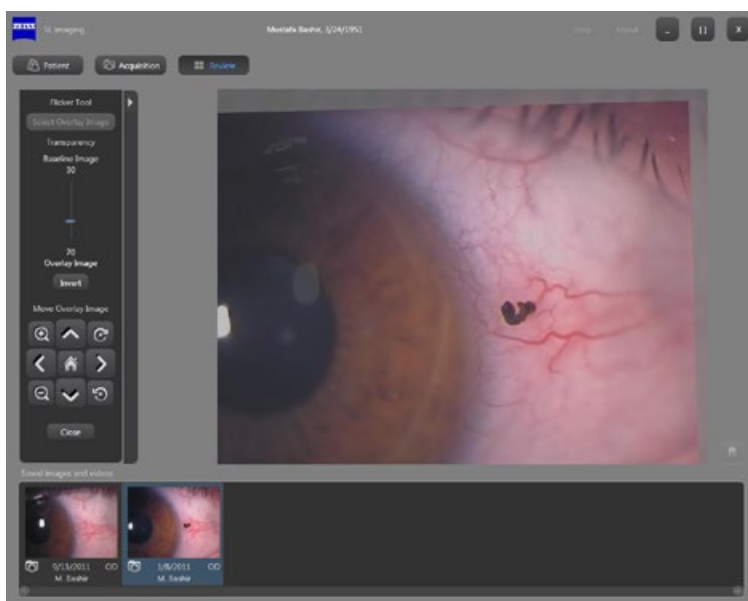
There is an auto-save option for the last captured image or video. Up to 5 images can be recorded by a single capture event. The best images from each series can then be saved manually.





**Acquisition Display with Image Memory**

All captured images are stored in the "Image Memory" folder. Saved images and videos are marked with a symbol. Additional images and videos can also be stored.



**Review Mode with Flicker Tool**

The Review Screen displays all saved image data in a patient file, including newly acquired images. In addition, a Flicker Tool enables quick detection of minute changes. For fast assessment of disease progression, two images, e.g. from two separate sessions can be optimally aligned by adjusting scale, rotational angle and position.

# Integrated imaging

All ZEISS slit lamps feature the SL Imaging Module, which consists of two components: the SL cam 5.0, a compact, fully integrated 5-megapixel camera, and the SL imaging software. It is also available as an easy upgrade kit for existing SL 115 Classic, SL 120, SL 220 and SL 130 ZEISS slit lamps and as a beam splitter retrofit. Even older slit lamp models like the 20 SL and the 30 SL can be retrofitted with the SL Imaging Module\*.



## SL Imaging Module

Situated between the tube and the variable magnification changer, the compact SL cam 5.0 becomes one with the slit lamp, capturing superb high-resolution images and videos for documentation.



## SL workstation

The SL imaging software is preinstalled on the SL workstation, which complies as a medical device with IEC 60601-1. SL imaging software can also be run on virtually any practice computer\*.



## Retrofit options

- SL cam 5.0 cameras are available for all current SL 115 Classic, SL 120, SL 220 and SL 130 models
- Adapters are available for upgrading the 20 SL and 30 SL models as well as beam splitters

From left to right: adapter for SL 115 Classic/adapter for SL 120 and SL 130/adapter for SL 220, 20 SL and 30 SL/adapter for beam splitters

\*For more information, please contact your local ZEISS sales representative.

# Technical data

## SL Imaging Module from ZEISS

### SL cam 5.0

Sensor type	1/2.5" CMOS, rolling shutter
Sensor size	2592 x 1944 pixel
Frame rate	Approx. 25 fps at 648 x 486 pixel Approx. 15 fps at 1296 x 972 pixel Approx. 5 fps at 2592 x 1944 pixel
Interface	USB 2.0, 400 Mb/s
Signal to noise ratio	38 dB
Dynamic range	70 dB
Dimensions (W x H x D)	Depending on model Max. 80 mm x 60 mm x 40 mm Max. 3.1 in x 2.4 in x 1.6 in
Weight	Depending on model Max. 0.35 kg Max. 0.08 lbs



### SL imaging software

#### Minimal requirements for computer hardware

Frequency	Min. 2.26 GHz
Hard disc	Min. 250 GB
RAM	Min. 4 GB
Interface	Min. 2x USB 2.0 CD/DVD drive
Monitor resolution	Notebook: min. 1600 x 900 pixel, opt. 1920 x 1080 pixel; PC monitor: min. 1280 x 1024 pixel
Free memory	SL imaging software: 60 MB; SL imaging software and Microsoft .Net software: 2 GB
Operating system	Microsoft Windows XP 32 Bit, Service Pack 3; Microsoft Windows 7 Professional 32/64 Bit, Service Pack 1
Software	Adobe Acrobat Reader version 9 or higher Microsoft Media Player version 10 or higher Microsoft .Net Framework 4

#### Selection of optional accessories for SL Imaging Module

Capturing	USB foot switch
Brightfield illumination	DigiCam Illuminator
PC	SL Workstation (22" panel-PC, fanless LV Intel® Core™ 2Duo, 2.26 GHz, HDD 500 GB, CFD 16 GB)



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