# **ZEISS SL Imaging Solution**

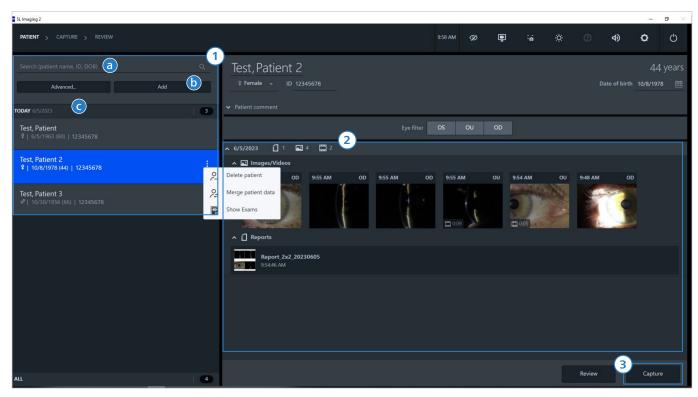
Capturing and editing quality images and video





# **ZEISS SL Imaging Solution screen overview**

### **Patient screen**



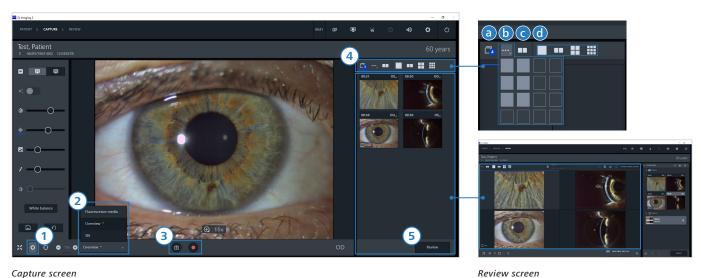
Patient screen

### 1. Access patient data

- a. Search for existing patient
- **b.** Enter new patient data
- c. Choose from FORUM® modality worklist

- 2. Review data from previous visits
- **3. Click "Capture" to switch to the capture screen** (for exam documentation)

### **Capture screen / Documentation examination**



Capture screen

- 1. Camera settings
- 2. Camera profiles: Use predefined camera profiles for different illumination conditions
- 3. Camera and record buttons
- **4. Layout templates:** Choose a layout template to automatically create reports during image acquisition for easy, streamlined documentation
  - a. Counter for captured images and videos
  - **b.** Create a new layout by selecting boxes
  - c. Last created layout
  - **d.** Quick access for favorite layouts with drag-and-drop placement feature
- 5. Review: Automatically creates a report using the selected layout

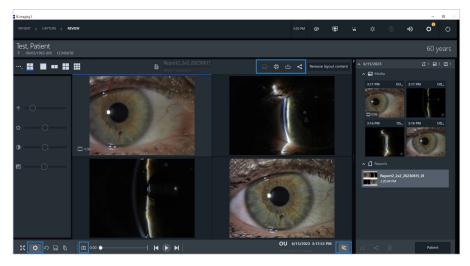
#### Capture images and videos using:

- ZEISS SL800 joystick trigger
  - Short press to capture images (likewise during recording)
  - Long press (>1s) to start and stop the video recording
  - Rotate to change the predefined camera parameter

#### ■ Other ZEISS slit lamps

- Capture images using the footswitch or keyboard spacebar, or click the camera button (3)
- Click the record button (3) to start and stop the video recording

### **Review screen**



Review screen

### Control mechanism for image

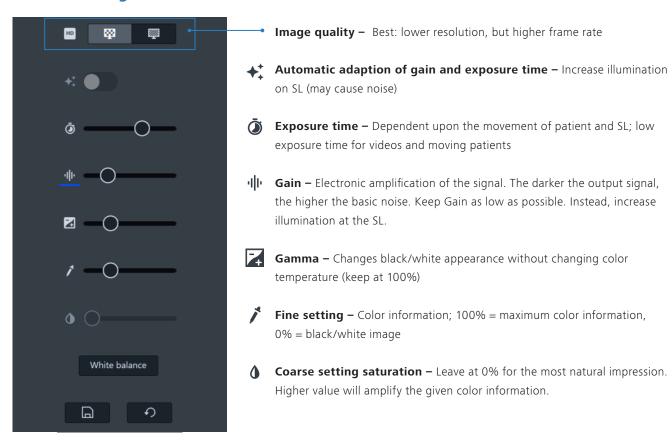
- Zoom: Use the mouse wheel
- Rotation: CTRL + mouse wheel
- Movement: CTRL + hold left mouse bar

#### **Tools**

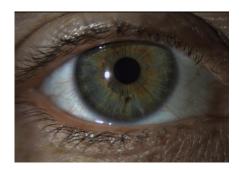
- Edit images and videos
- **⊒** Use Flicker to observe differences
- **t** Export reports, videos and images to
- ← FORUM/DICOM archive or share on a predefined network drive
- Save data locally
- Create a single image from a video

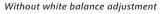
# How to get quality images using the software

## **Camera settings**



## Adjust the white balance for more natural looking images







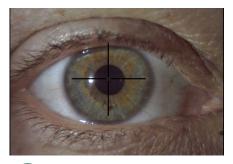
With white balance adjustment

### Override the default white balance by following the steps below:

- Hold a white sheet of paper in front of the slit lamp
- Swivel in the diffuser for a homogeneous illumination
- Reduce illumination to a minimum (the test paper should appear grey on the screen)
- Make sure there is no glare
- Click the White balance button (each profile requires a separate white balance)

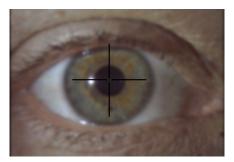
# How to align the slit lamp and camera correctly

### Issue: Observer can compensate a misalignment of the instrument, the camera cannot





**Good image**Crosshair and image in focus



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**Poor image**Crosshair in focus, but view out of focus » **Focus slit lamp** 





**Poor image**View in focus, but crosshair out of focus » **Focus eyepieces** 



### Option 1: Eyepiece with crosshair (recommended)

This method applies to all types of slit lamps

- **1.** Insert the eyepiece with crosshair into the right side of the binocular tube (this is where the camera is located).
- 2. Close the left eye and turn the diopter ring of the eyepiece until the crosshair appears sharp. Start from maximum "+" to avoid accommodation.
- **3.** Ensure the crosshair and observed object are both in focus.
- $\textbf{4.} \ \text{Check the monitor image; it should now be in focus.}$



# Option 2: Monitor focus (no crosshair eyepiece or focus rod)

This method applies to all types of slit lamps

- **1.** Attach an object (e.g., a business card) to the headrest.
- **2.** Focus on that object using the highest magnification while looking only at the monitor.
- **3.** Block the slit lamp by activating the quick action break.
- **4.** Looking through the microscope, without moving the slit lamp, adjust your eyepieces (monocular).

### Tips:

- Keep in mind which beam path is recorded to avoid shadows and reflexes
- Use the aperture to increase the depth of field
- Use the optimal type of illumination
- Big illumination angle for 3D information

- For people who wear glasses, it is necessary to slide in eyecups
- Reduce ambient light for better results
- Accommodation is more pronounced among younger people (that's why adjusting correctly, and Option 1, is important)

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**SL Imaging Solution** 



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