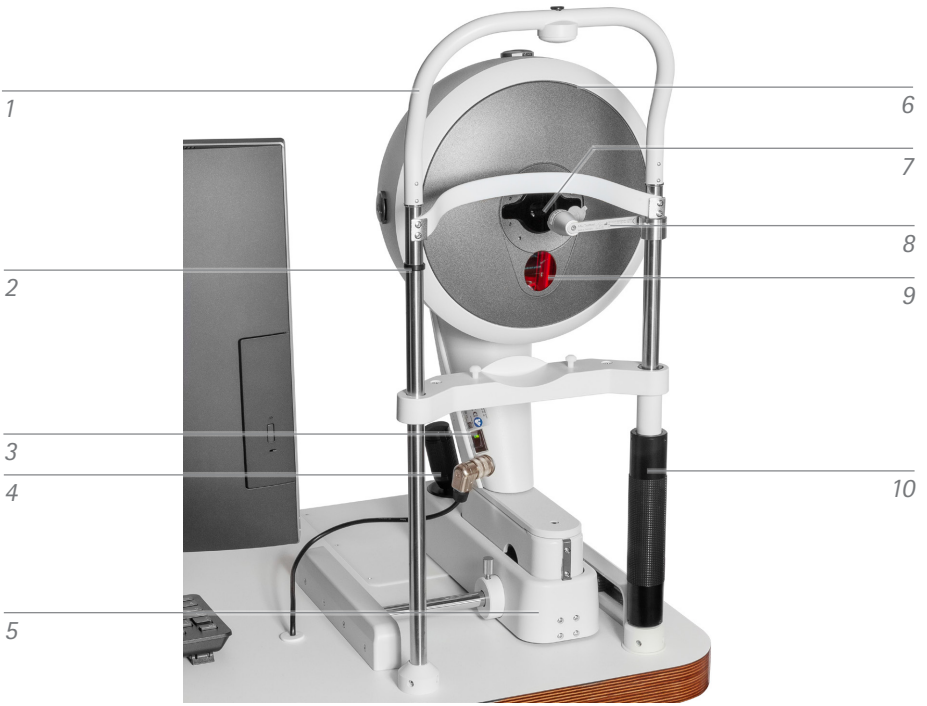
OCULUS | Pentacam® AXL

Quick Guide

Performing measurements in a few steps

OCULUS®

Device components



Pentacam® AXL on a lift table

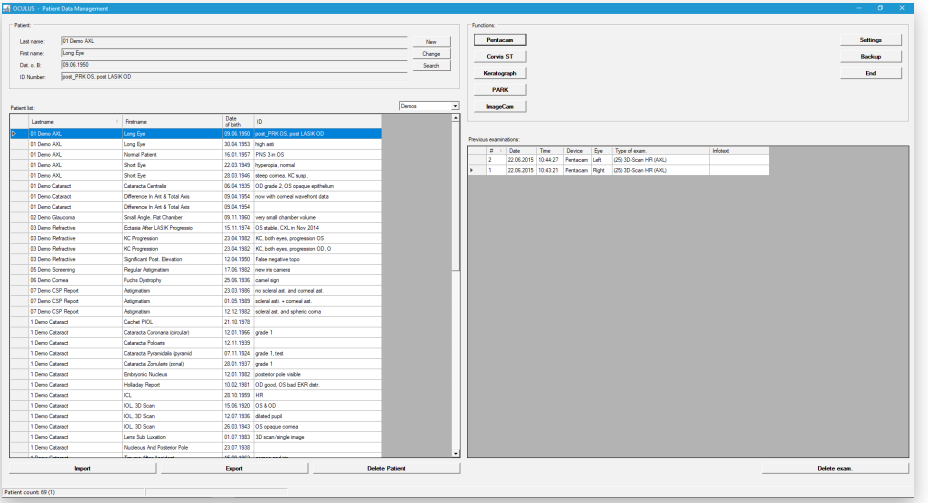
1 *Chin and forehead rest*
2 *Orientation point*
3 *On/off switch*
4 *Joystick*
5 *Cross-slide base*
6 *Pentacam® AXL measuring head*
7 *Iriskamera, with blue slit light and Dual PCI*
8 *Test eye*
9 *Scheimpflug camera*
10 *Rotary handle for height adjustment*

This quick guide is only meant as a supplement for operating the OCULUS Pentacam®. For more complete information about operating the OCULUS Pentacam®, please refer to the manual.

Step 1 ▶ Switch on the unit and the PC

- The OCULUS Patient Data Management can be started by clicking the Pentacam® icon.

The user interface of the "Patient Data Management" is displayed.



Step 2a ▶ Selecting a patient

Entering a new patient

- To create a new patient in the "Patient Data Management", click the [New] button.

- Enter the patient's full last name, first name and date of birth in the patient window. You also have the option of entering an ID number or designation.

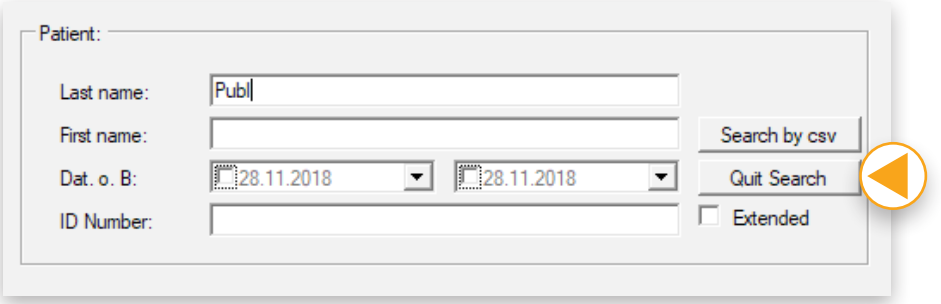
- To save the data you entered, click the [Save] button.

The patient you have just entered now appears in the patient list.

Step 2b ▶ Selecting a patient

Selecting an existing patient

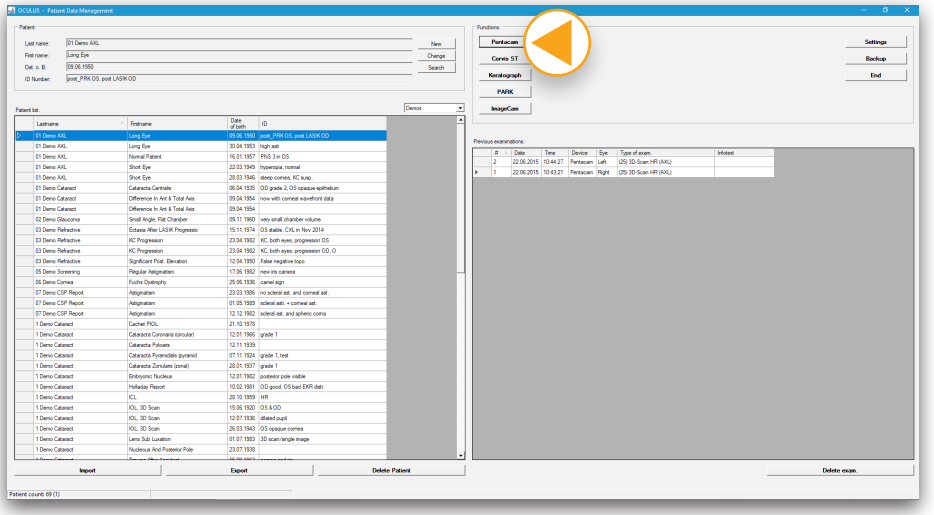
- Choose the [Search] button to quickly find the patient you require in the list.
- Now enter the patient's name, the first letter of his or her name or ID number (if an ID number has already been entered) in the field that appears and confirm by choosing [Search].



- Click the appropriate entry in the list to transfer that patient's name to the patient window. This also brings up a list of any previous examinations for that patient in the examination window (right column).

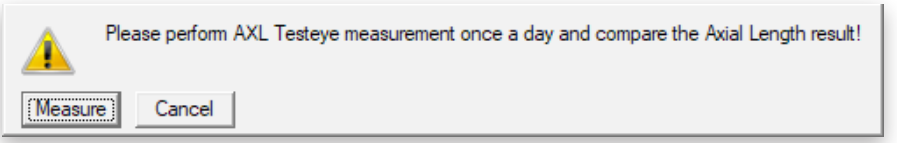
Step 3 ▶ Starting the Pentacam® program

- After selecting a patient, start the Pentacam® program by clicking on the [Pentacam] button.
- Alternatively, start the program by double-clicking on the selected patient's name.

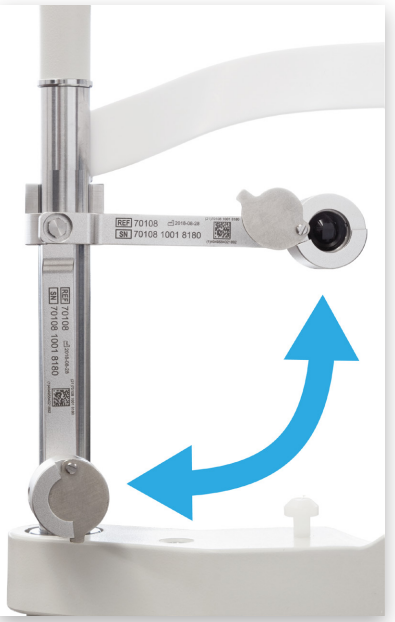


Step 4a ▶ Measuring the test eye

Once every morning of after 24 h continous operation, the software requests you to perform a test eye measurement.

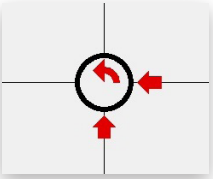


- Shift the test eye infront of the Pentacam®.
- Open the protective cover from the lens.



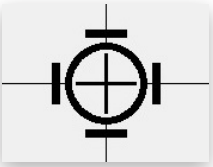
- Click [Measure].

Step 4b ▶ Measuring the test eye

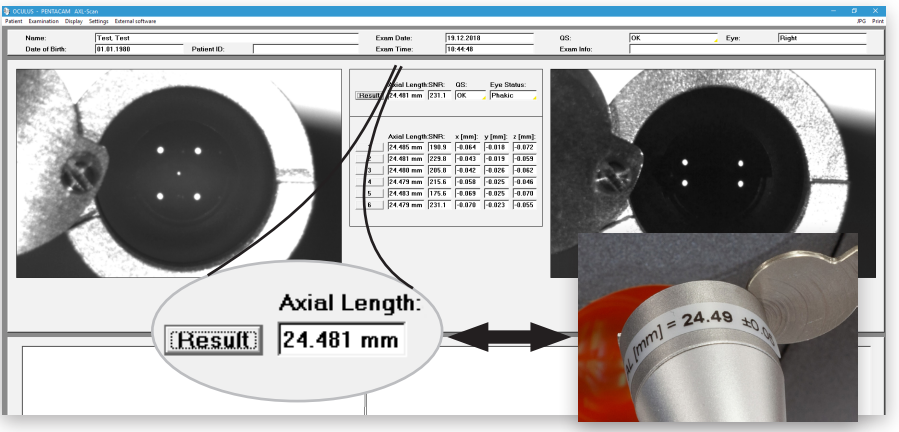


- Fine adjustments can be performed with the help of the adjustment window. Move the joystick towards the provided directions (red arrows).

Example:
You need to move the joystick to the left, front and turn it anticlockwise.



- When the eye is in focus, the adjustment window will show a black cross in the centre of the circle surrounded by four black bars.
- Click [Start Scan], for starting the scan manually.
- Match the measured data with the data on your test eye.



If the difference between the initial value and the current value lies outside the tolerance range, please contact our service or your marketing authorisation holder.

Schritt 5 ▶ Positioning the patient

- Adjust the height of the table.
- Ask the patient to place his or her head on the chin and forehead rest.

The black ring marking between the chin rest and the forehead rest (a) should be used for height estimation of the patient's eye.

- Adjust the patient's eye level using the twist grip (b).

The patient is positioned correctly when chin and forehead touch the rests and the eyes are level with the marking.

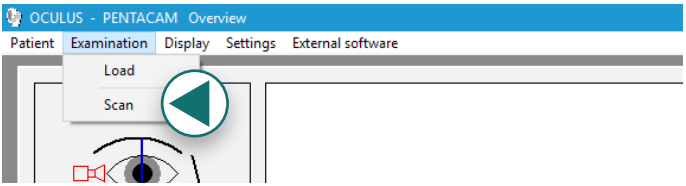
- Instruct the patient to focus on the red light during the entire measurement.

Step 6 ▶ Darkening the room

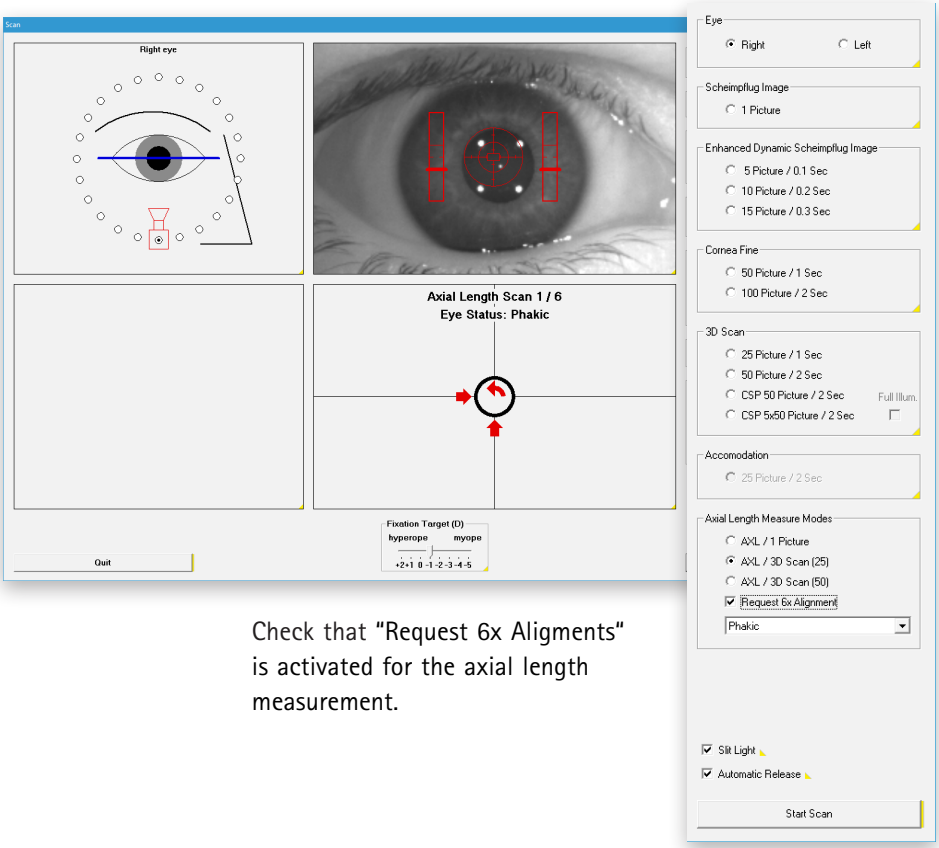
- If you do not wish to turn down or switch off the lights in the examination room, you need to cover the patient and the Pentacam® using the dark cloth included with the Pentacam®. This is necessary in order to ensure a correct examination.

Step 7 ▶ Prepare the measure

- Choose the tab [Examination] and click [Scan] to switch into the scan mode.



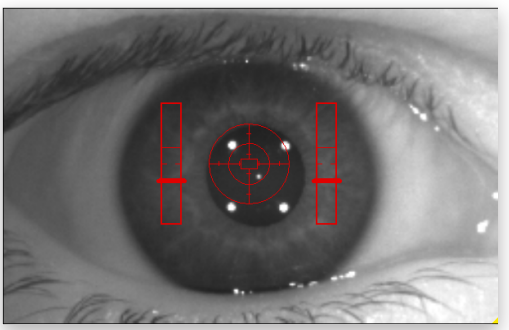
- Check the settings (e.g. number of pictures) on the right side of the scan menu. Change these settings if necessary.



Check that "Request 6x Aligments" is activated for the axial length measurement.

Step 8 ▶ Start Measurement

- Ask the patient to open the eye wide and fixate on the red point.
- Move the Pentacam's® cross slide towards the patient until the four infrared LEDs are clearly to see at the image (white dots). The preliminary position of the camera is achieved once the central corneal reflex is centered in the target cross.



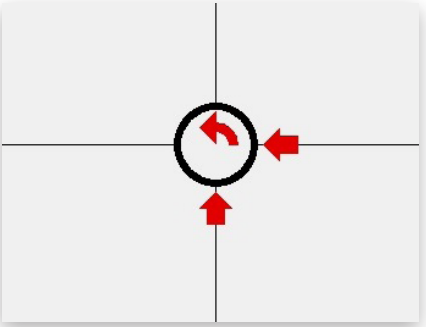
Pupil picture

What to say to the patient before taking the measurement:

- "Look at the red point."

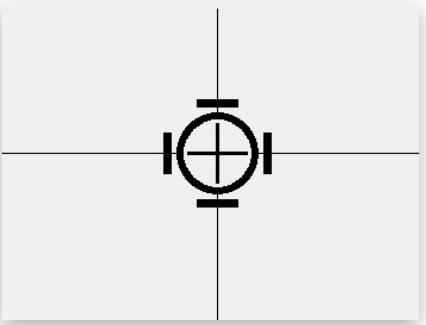
Step 9 ▶ Take the measurement

- Fine adjustments can be performed with the help of the adjustment window. Move the joystick towards the provided directions. (Red arrows).



Example:
You need to move the joystick to the left, front and turn it anticlockwise.

- When the eye is in focus, the adjustment window will show a black cross in the centre of the circle surrounded by four black bars. In this case the Pentacam will start the measurement automatically.



What to say to the patient right before you take the measurement:

- *"Open your eyes up wide and keep them opened while I take the measurement"*
- *"Blink once more – now don't blink – the measurement is starting – now."*

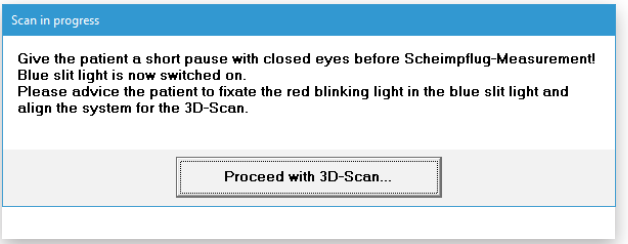
- If you are taking the measurement manually:
  Take the measurment by clicking **[Start Scan]** or by pressing the space bar.

For manual capture release, it might be that this measurement cannot be reproduced!

Step 10 ▶ Performing a Scheimpflug measurement

After the axial length measurement you will be requested to continue with Scheimpflug measurement.

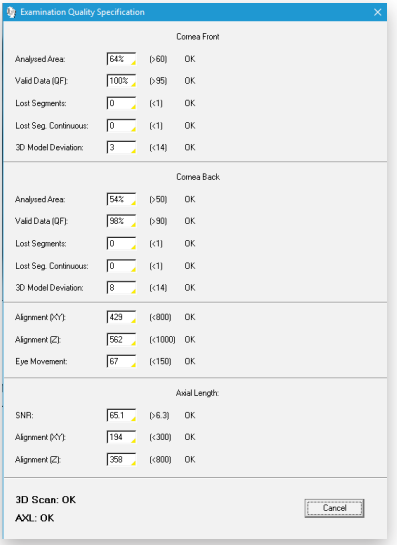
- Follow the given instructions.



- Start the measuremtent by clicking the button [**Proceed with 3D-Scan...**] or by pushing the space bar.
- Repeat step 9.

Step11 ▶ Check the measurement results

- Check the measurement result on the basis of the quality specification in the "QS" tab – it is located in the upper third of the right side in the Overview display.



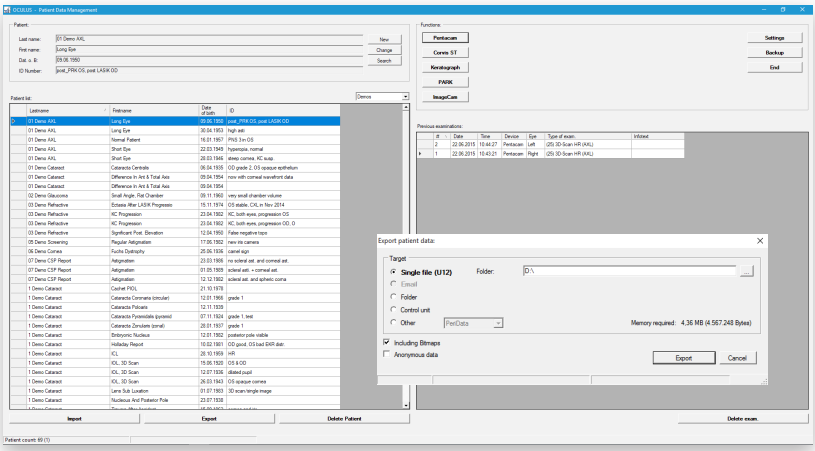
If an OK appears in the "QS" tab, the measurement is proper and repeatable.

- If the background of the "QS" tab is yellow, open the dialogue box by clicking on the tab and check the results of the examination. In case of doubt, repeat the measurement.
- If the background of the "QS" tab is red, repeat the measurement.

Regardless of the measurement quality, the examination data is being saved!

Step 12 ▶ Transfer measurement results

- You have the option export data from a patient or a single examination.
- Select the reqired patient in the "Patient Data Management".
- In case you want to export single examinations you need to select the particular examinations.
- Then click [Export].



- Chose „Single file (U12)" and specify a file name and destination.
- Make sure that "Including Bitmaps" is checked.
- Confirm by clicking [Export].
- Once the data has been exported and saved to the hard drive, you can attach it to an email or save it to an external data storage medium.
- The data can only be opened on another PC if the recipient is using the same software version and has obtained a license.

To make anonymous the patient data, activate the checkbox [**Anonymous data**].

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K/70100/EN_05/19_Rev.00

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