

End-user license agreement for starCam-Software

The following end-user license agreement („EULA“) is a legal binding contract between you and the starMed GbR („starMed“). You are entitled, under the provisions of this EULA, to use the camera software „starCam“ from starMed (the „software“) on your computer.

With purchasing / installation of the starCam you accept the provisions of this EULA.

§ 1. LICENSE

1. Under the provisions of this EULA starMed grants you the not exclusive and nontransferable license for use of the software without permission for granting sublicenses.
2. You are entitled to install and to use copies of the software on each of your own computers.

§ 2. RESTRICTIONS

The under this provisions granted license for the use of the software is subject to the following restrictions and limitations, as long as they haven't been suspended by either an explicit permission of starMed or applicable laws.

You are not allowed to do the following:

1. To copy the software in whole or in parts nor to duplicate;
2. By any means to change, to extend, to arrange or to modify the existing software;
3. Try to develop all or part of the software (reverse engineering) nor to decompile nor create derivative works, disassemble or otherwise attempt to discover the source code of the software;
4. To transfer the right for use of the software charged or free of charge, to sublet or in any other way transfer it;
5. The under this provisions granted right to transfer for charges nor free of charges, sublicense, lease, rent, loan, or otherwise transfer (except as permitted); and
6. To delete or to blur copyright hints and references;

§ 3. LAW / RIGHTS

All rights, titles and interests of the software are held respectively controlled by starMed or third parties licensors, who have been granted a license or sublicense. starMed or the third parties licensors retain and reserve all the rights who haven't been explicit granted according to this EULA.

§ 4. LIMITATION OF LIABILITY

1. The software is made available in the existing condition. StarMed does not give warranty or security that the software is without faults, defects, inaccuracies or perfectly functions. StarMed does not give any explicit, conclusive or legal warranties, especially the warranties of tradeability or suitability for particular purpose.
2. starMed does not give any warranty, that the use of the software under this conditions does not violate any intellectual property rights owned by third parties or controlled by third parties.
3. For the safety of the computers on which the software is been used you alone are responsible.
4. starMed does not compensate, nor reimburse, nor defend any damage caused by the use of the software thru you or third parties.
5. On no account will starMed be liable for any indirect, random, special, consequential, punitive, or exemplary damages or whatsoever (especially damages by loss of business or personal profits, data loss) from the use of this software, even if starMed has been advised of the possibility of such damages.

§ 5. TERMINATION

1. starMed is entitled to terminate this EULA if the contained provisions and restrictions of this EULA have been violated, regardless of other rights of starMed regarding indemnity or other judicial or legal remedies.
2. In case of a termination of this EULA you will be obliged to omit any use of the software and to destroy the whole software immediately.
3. The provisions of § 4 till § 6 of this EULA stay valid regardless of the termination of this EULA.

§ 6. GENERAL / MISCELLANEOUS ALLGEMEINES

1. This EULA is subject to German law.
2. You shall comply with all applicable export regulations, provisions and international contracts which apply for the software and keep all agreements.
3. The conditions of the EULA are declared as severable. Should individual paragraph, provision or clause of this EULA be invalid or subsequently cease to be invalid, then the validity of the rest of the EULA shall remain unaffected, valid and suable.

System requirements for starCam software from starMed

This software has been developed for Microsoft Windows 7 / 8.1 and 10.

Minimal requirements:

Microsoft Windows 7

Intel Core i5 – 2,4 GHz CPU

4 GB RAM

USB 2.0 and USB 3.0 ports [not necessary for starCam 2.0]

Recommended requirements:

Microsoft Windows 8.1 or 10

Intel Core i7 – 2,4 GHz CPU

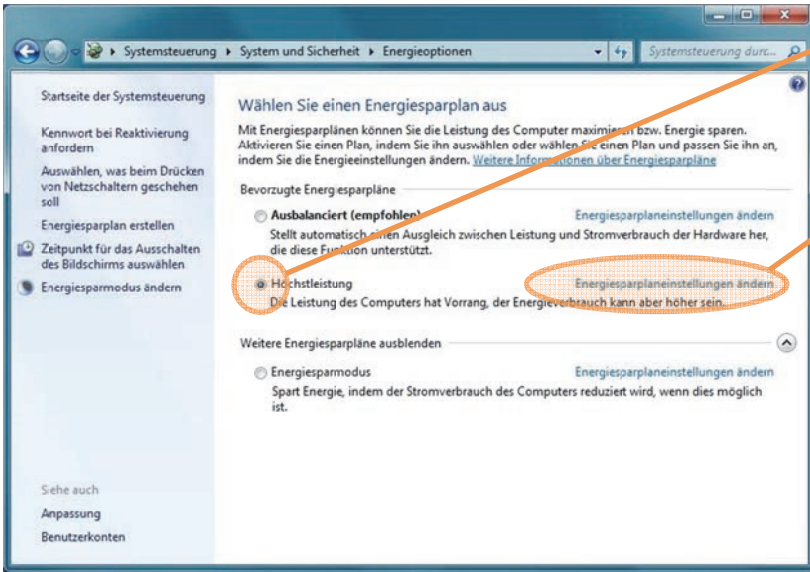
8 GB RAM

USB 2.0 and USB 3.0 ports [not necessary for starCam 2.0]

Recommended computer optimizations for starCam Software

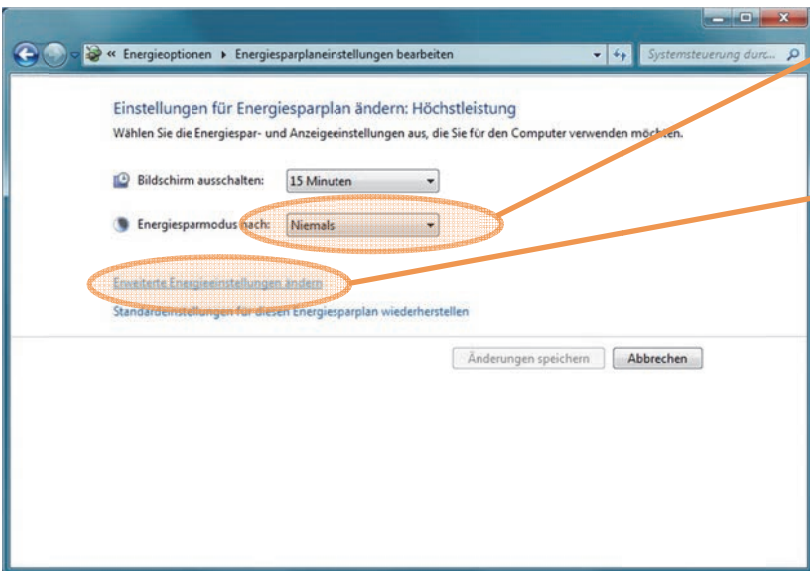
The adaption of your computer happens on your own risk and responsibility. [Administrator recommended].

START ► SYSTEM CONTROL ► SYSTEM and SAFETY ► ENERGY OPTIONS



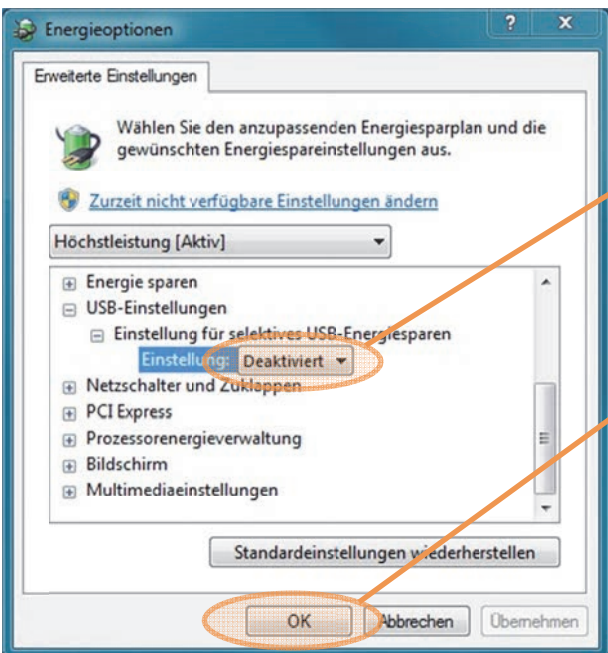
Choose option HIGH PERFORMANCE

Click to check further settings



Choose option NEVER

Click to check further settings



Set here to DEACTIVATE

Confirm new settings with OK

Content of starCam Full-HD USB 3.0 from starMed



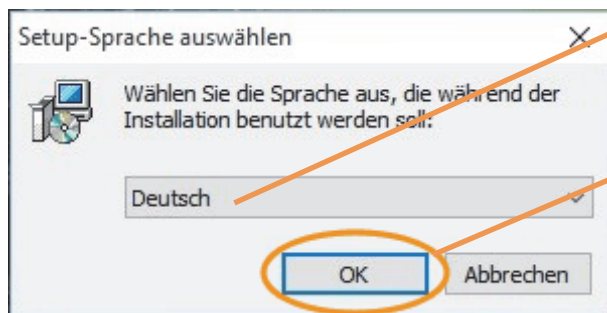
- 1 Camera (inclusive 1,5m USB 3.0 cable), 8.5x magnification lens and adapter
- 2 Bluetooth foot switch
- 3 USB 2.0 Bluetooth stick for foot switch
- 4 5.0x lens [16mm]
- 5 Touch guard for lenses
- 6 Spiral cable holders (2 pieces)
- 7 Cable holder clip (2 pieces)
- 8 USB 3.0-cabel for Full HD transfer (5m)
- 9 USB-stick inclusive starCam Software and instruction manual (PDF)
- 10 Allen key 2mm

Installation of starCam Software

The installation is done at your own risk and full responsibility according to the EULA.

Important: you shall connect the camera and the USB 2.0 bluetooth stick after the installation of the software to the computer.

1. Switch on and start your computer.
2. Connect the USB stick [starMed] to a free USB port.
3. Select the removable media on the computer.
4. Open the folder via double-click.
5. Open the starCam.exe via double-click.
6. The program starts with the installation.

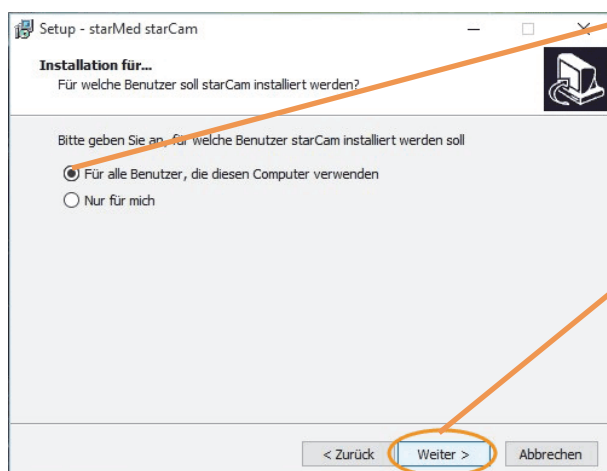


Choose your desired language
(example: German)

Confirm your choice with OK

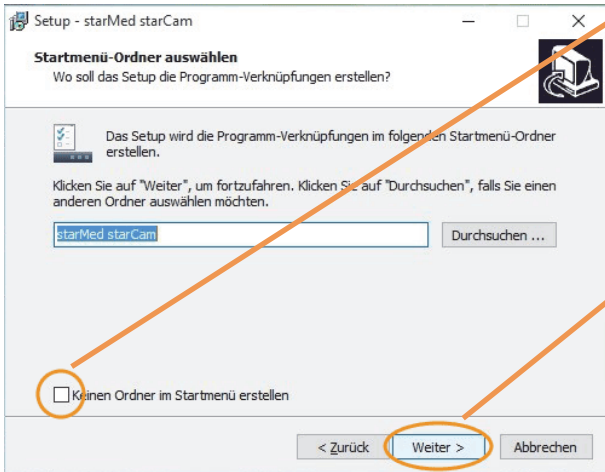


Press NEXT to proceed further



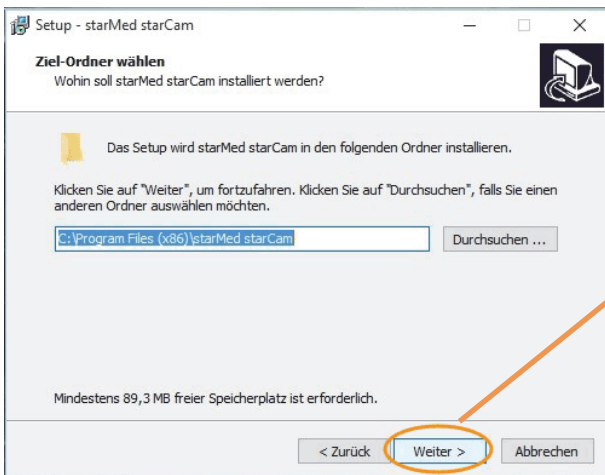
Choose for which user the program
should be installed (recommended:
for all users).

Confirm your choice with NEXT

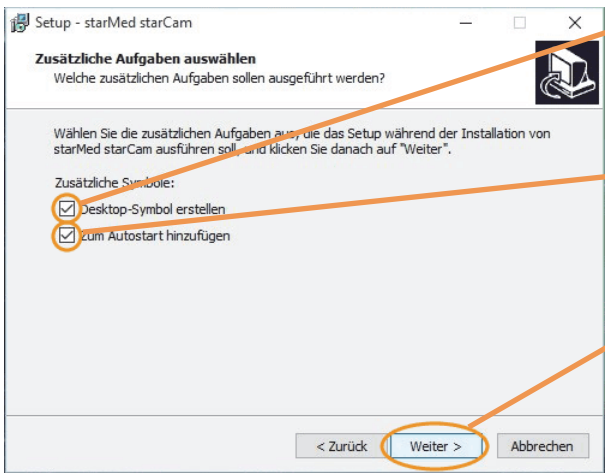


Please check the box if you don't want to create a folder

Continue by pressing NEXT



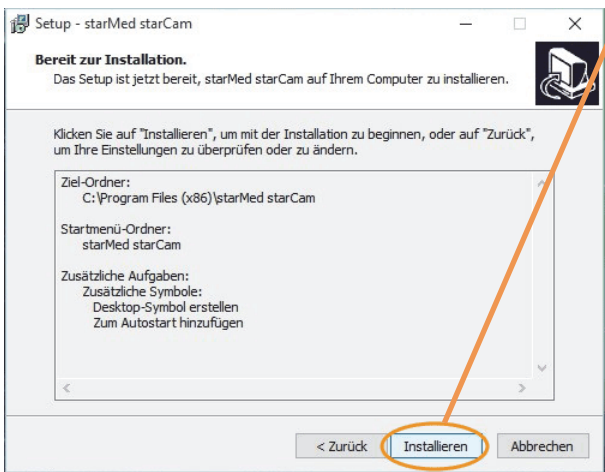
Continue by pressing NEXT



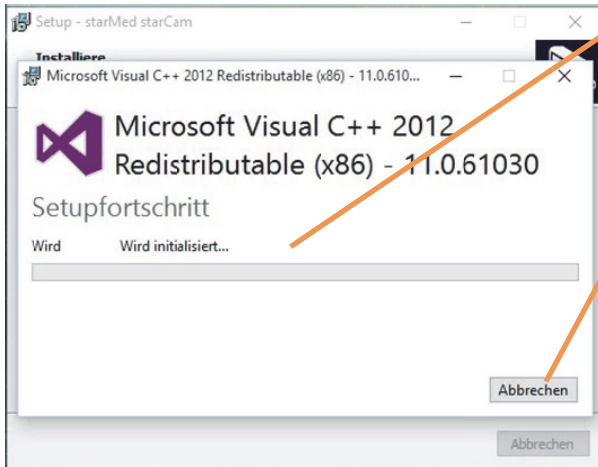
Creates a shortcut symbol on your desktop for quick-start

Adds the program to auto start

Confirm and continue by NEXT

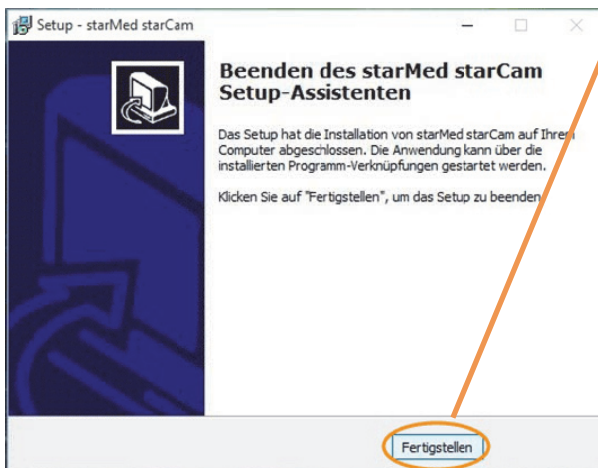


All settings are done – continue by INSTALLATION

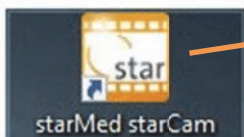


Necessary additional software for the starCam is installed

Only if the software shall **NOT BE INSTALLED** press CANCEL



Complete installation – Installation successfully finished



In case of desktop symbol was created – this icon appears on the desktop

Start Software starCam

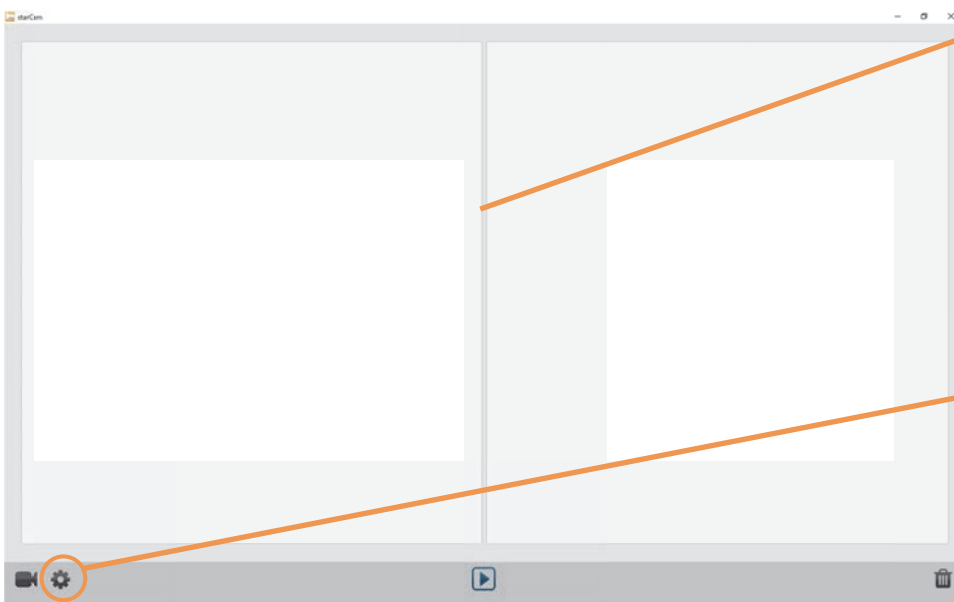
1. Connect camera to USB 3.0 port
2. Connect USB Bluetooth stick for foot switch to USB 2.0 port and wait till the stick has completed the automatic installation process (red LED on the stick is dead after successful installation).



Start the program by double-click on the desktop symbol



Starting screen appears

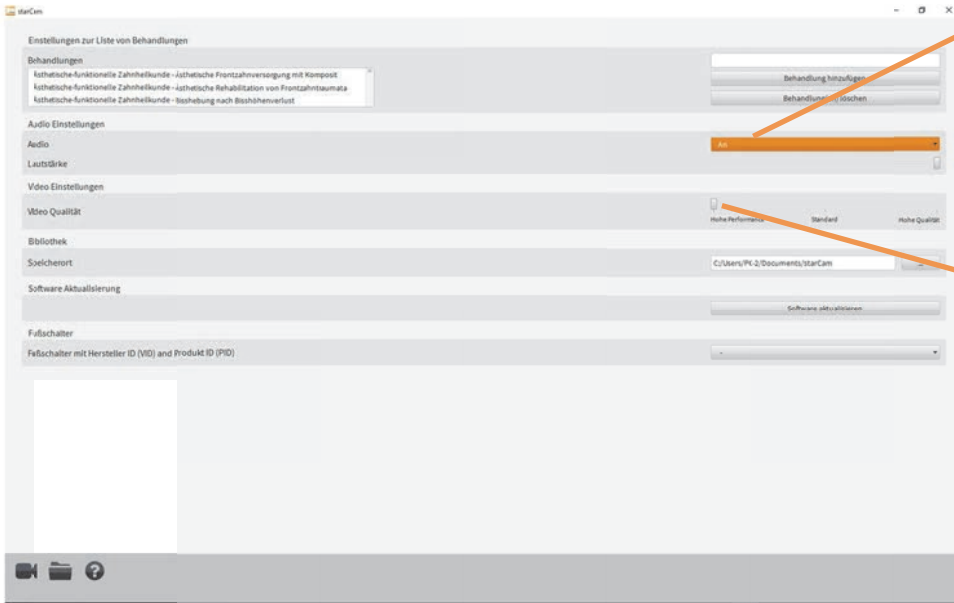


The library opens automatically and the program is active

Activate the SETTINGS by clicking on the symbol

On / off of program audio

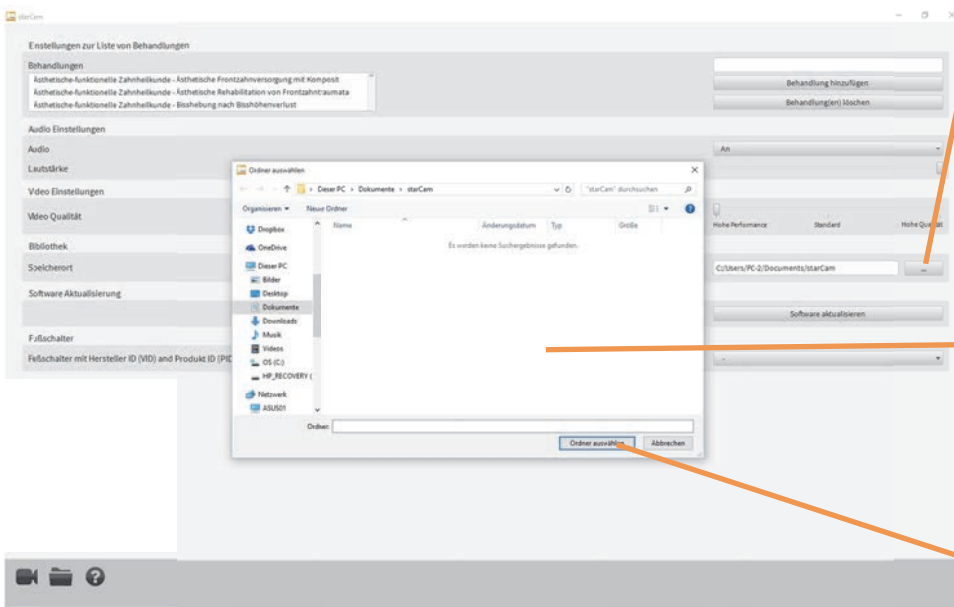
performance settings



On / off and also volume of the acoustic audio feedback.

Slider should be at HIGH PERFORMANCE in the beginning and can be adjusted otherwise later if the computers performance is sufficient.

Setting destination path in the system for files

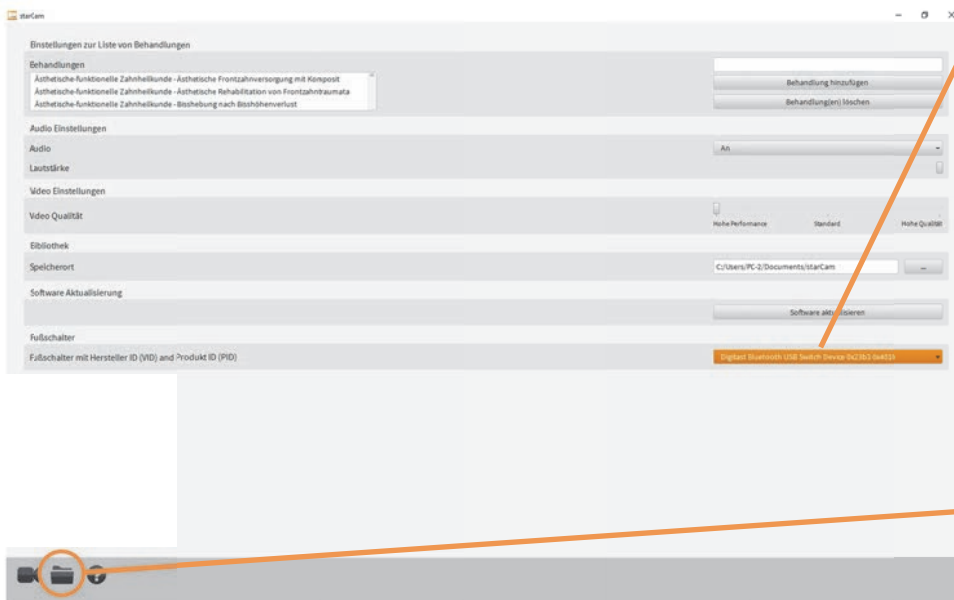


Define filed location

Pressing [...] opens the folder directory.

Confirm filed location

Activation of the Bluetooth foot switch

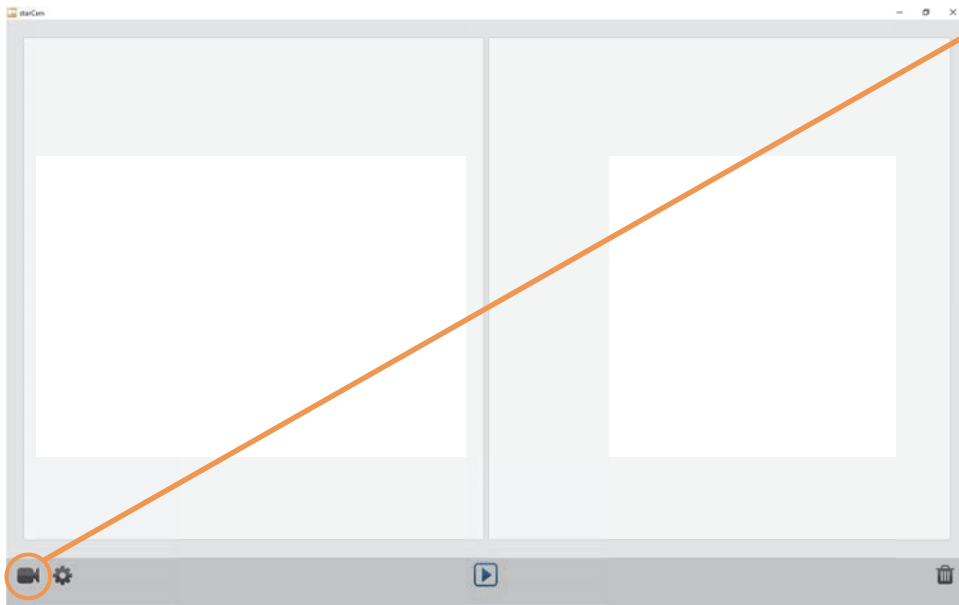


Select "Foot switch Digitast Bluetooth USB ..."

Advise: USB Bluetooth stick has to be connected to the computer before starting the starCam software.

Back to LIBRARY

Starting the camera



To start the live picture press the CAMERA symbol.

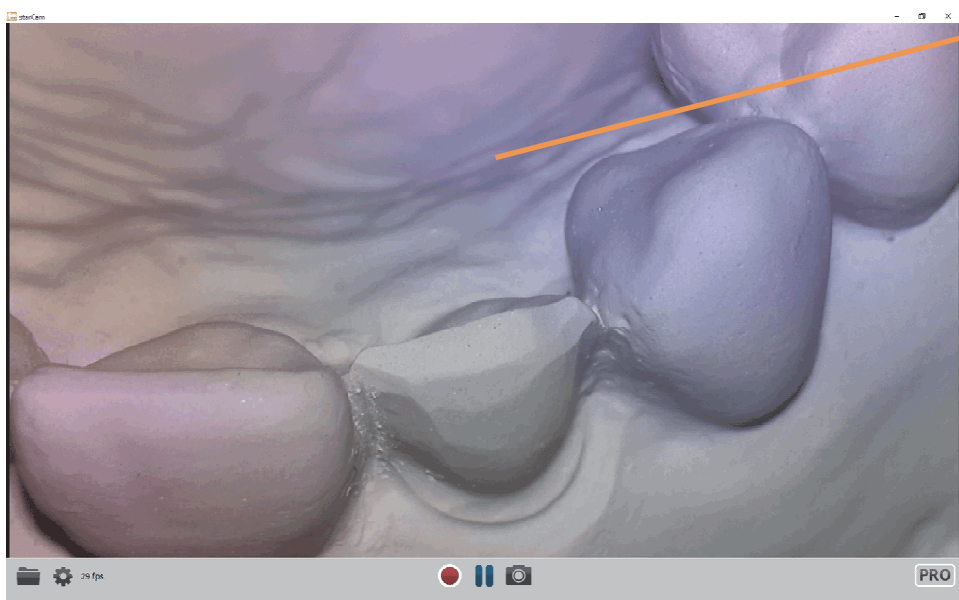
Advise: the camera has to be already connected to a USB 3.0 port.

It is recommended to use the USB ports at the backside of your computer for higher performance.



In case the camera hasn't been recognized, restart the process by pressing REPEAT.

Advise: camera already has to be connected to a USB 3.0 port – please ensure a proper connection.



Camera was recognized and is connected – the live picture/stream appears.

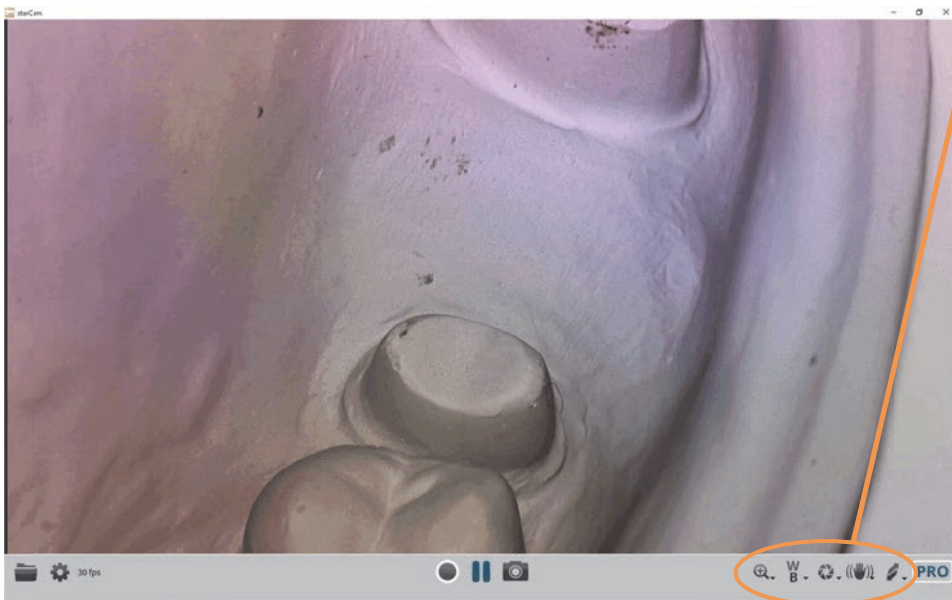
Advise: the picture might be blurry as the camera focus hasn't been adjusted yet. You are not recording yet.

Settings of the PRO-mode

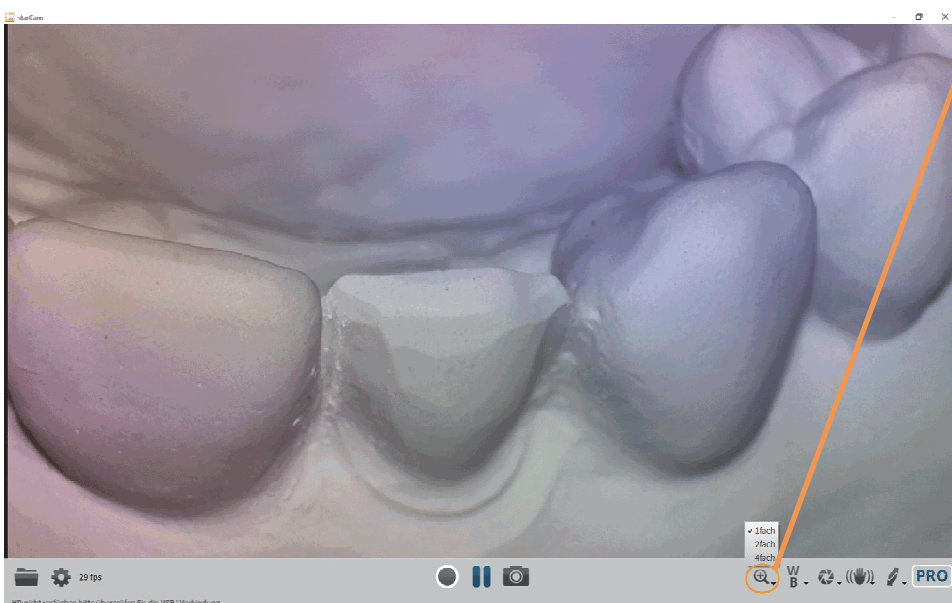


Switch to the PRO MODE by clicking on the PRO button. Active button is changing to blue.

Advise: if the PRO mode is active only single pictures are possible but no recordings.

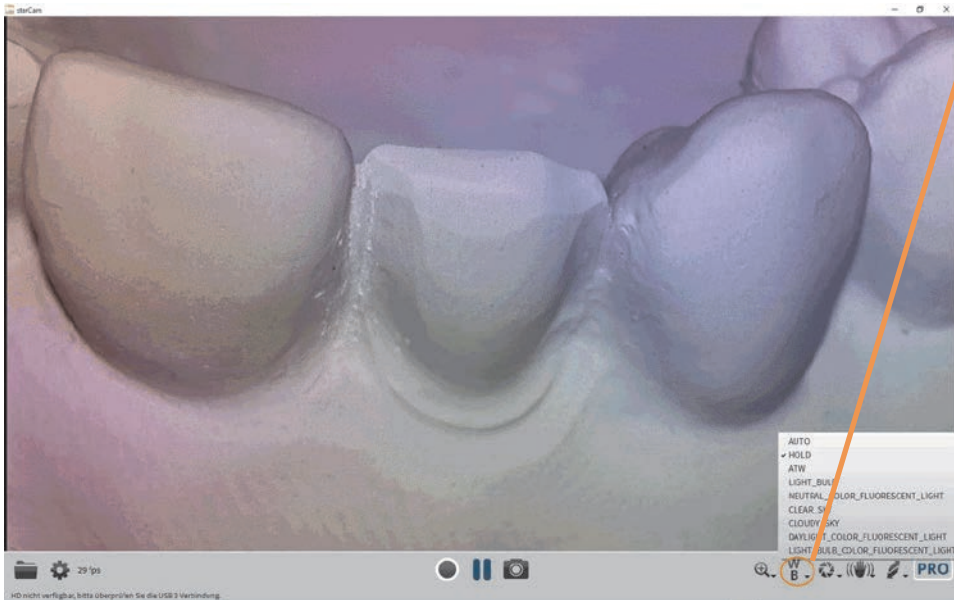


The active PRO mode offers additional symbols.

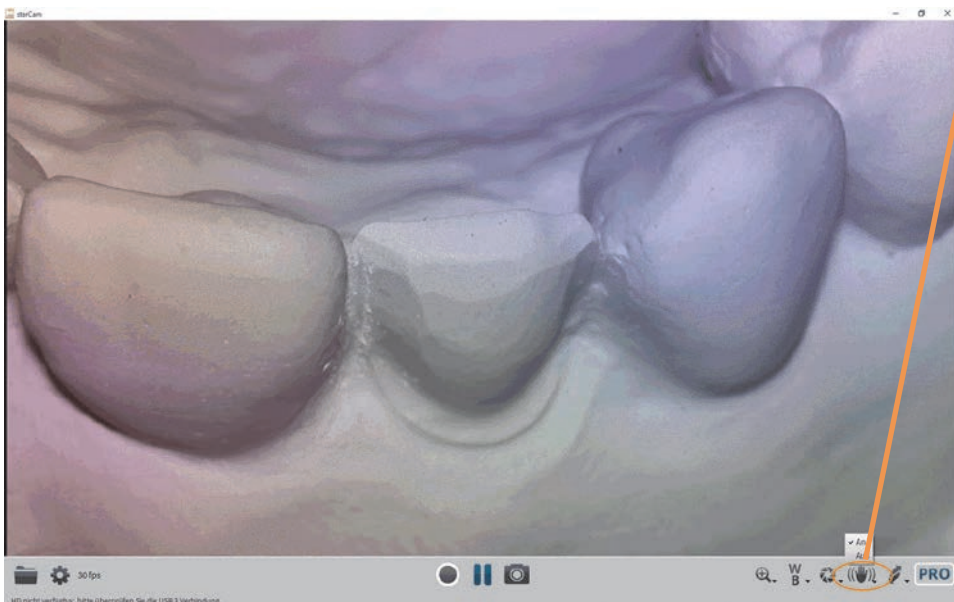


You can choose additional digital zoom to the optical magnification.

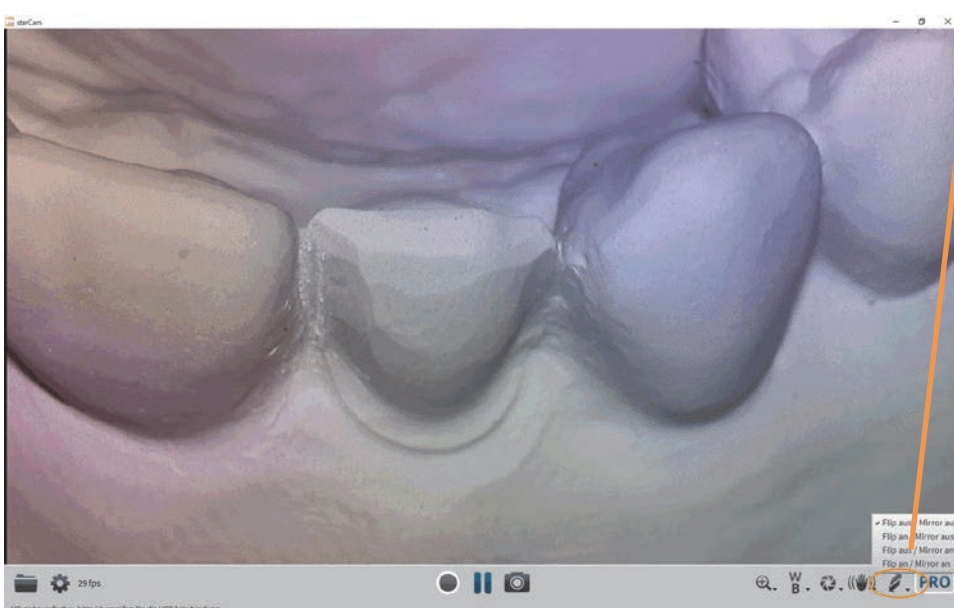
Recommended is 1x.



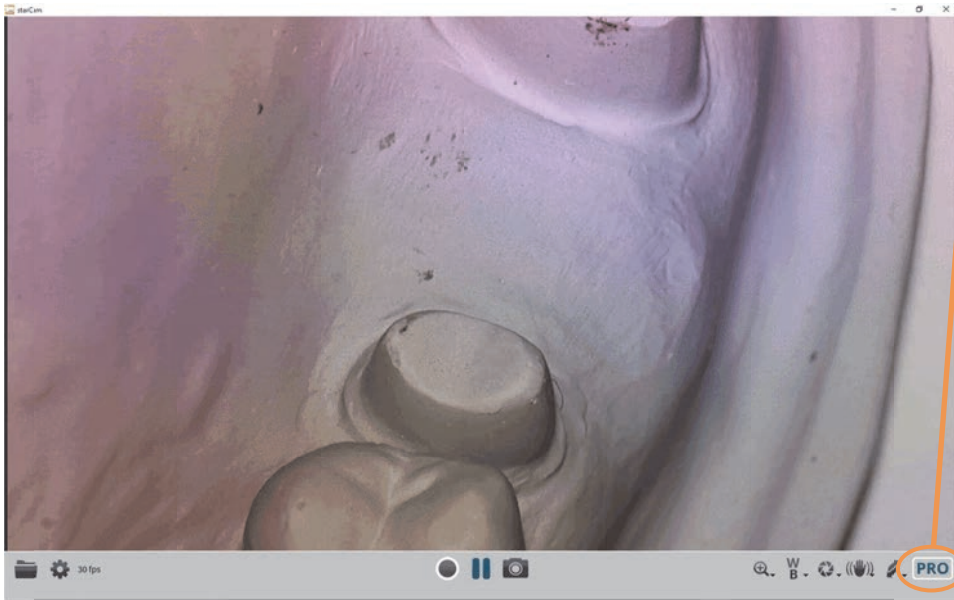
White balance.
 Recommend is AUTO.



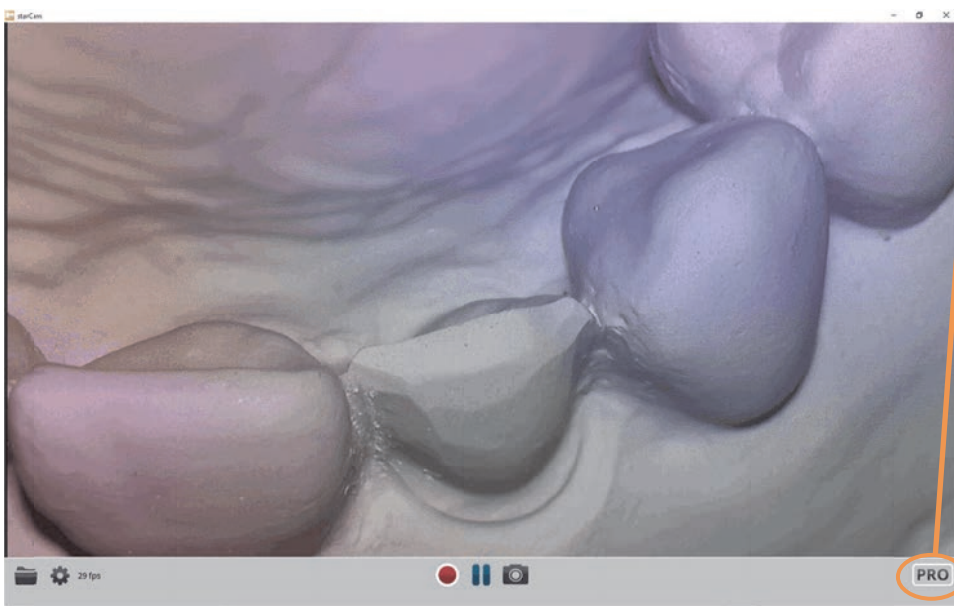
Picture stabilization.
 Recommended is ON.



Mirror the view for live streaming, single pictures or recordings.
 Recommended flip off / mirror off.



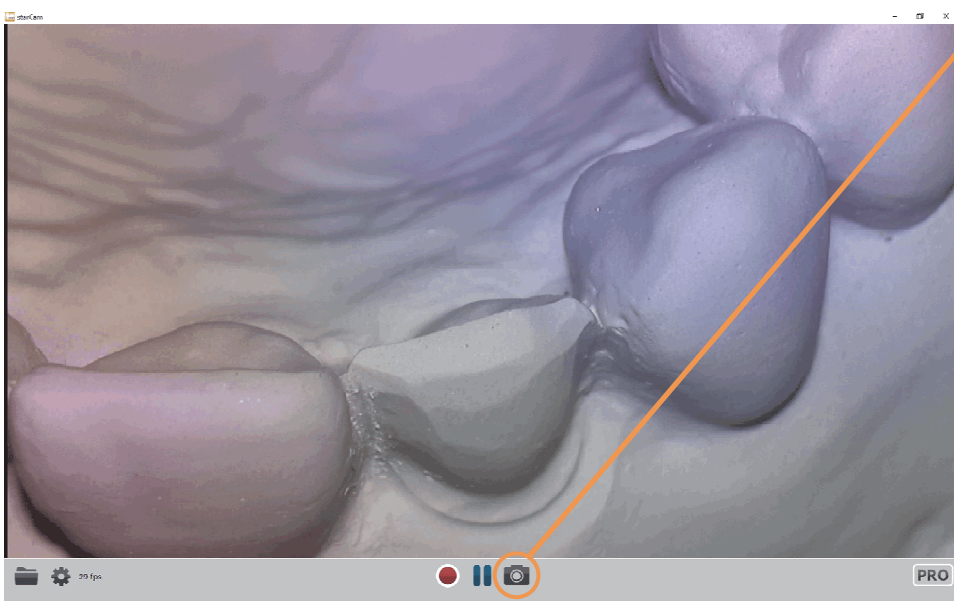
Close the **PRO** mode and save the chosen settings and options.



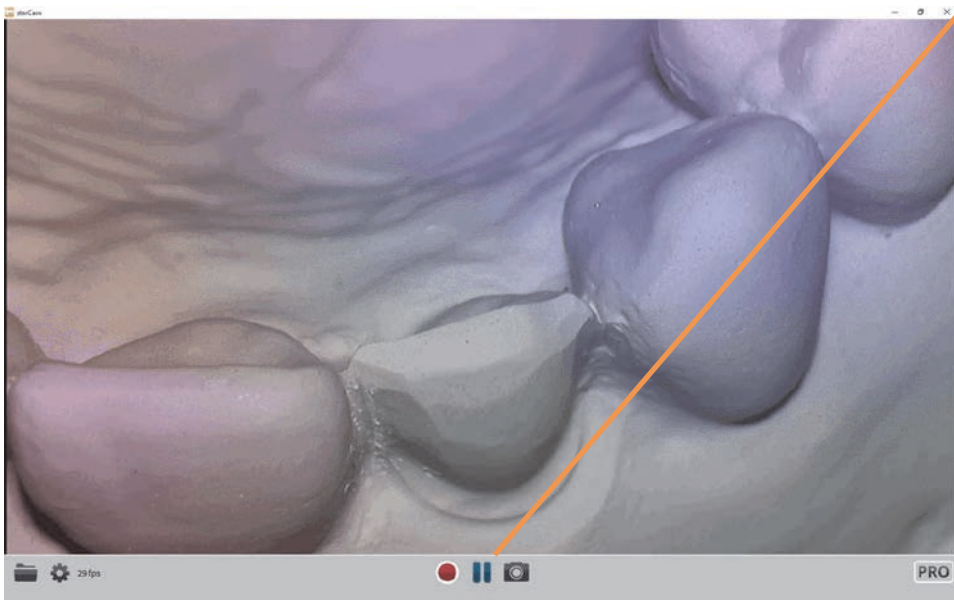
PRO mode is disabled. Symbol is grey again instead of blue. Additional symbols are hidden.

Advise: if the PRO mode is disabled it is possible to take single pictures and to start recording at any time.

Start / pause recording and single pictures

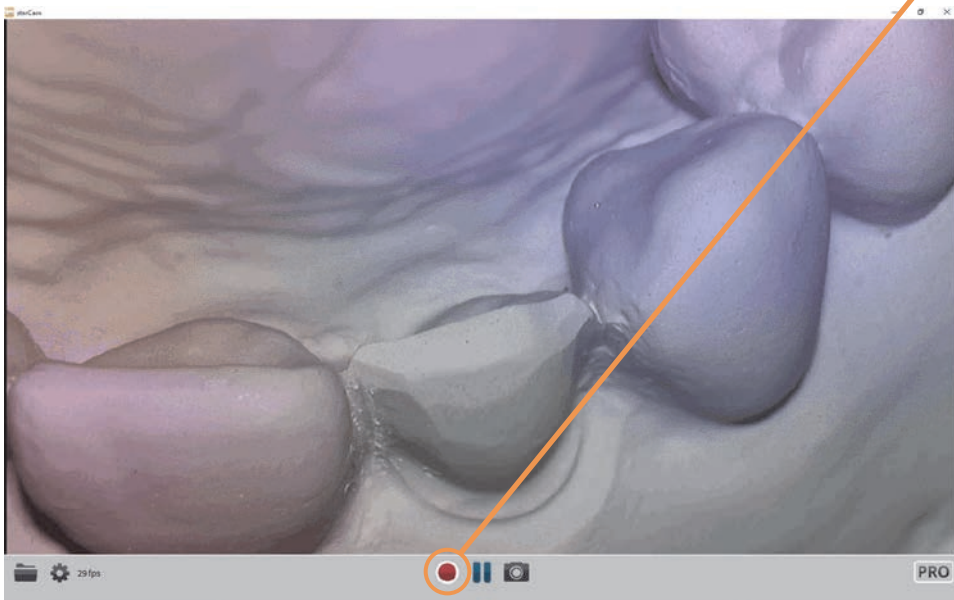


Single pictures: to take a photo please press the foot switch shortly once, you will hear a sound. The photo/picture will be saved in the library. Each trigger generates a own new photo saved in the library.



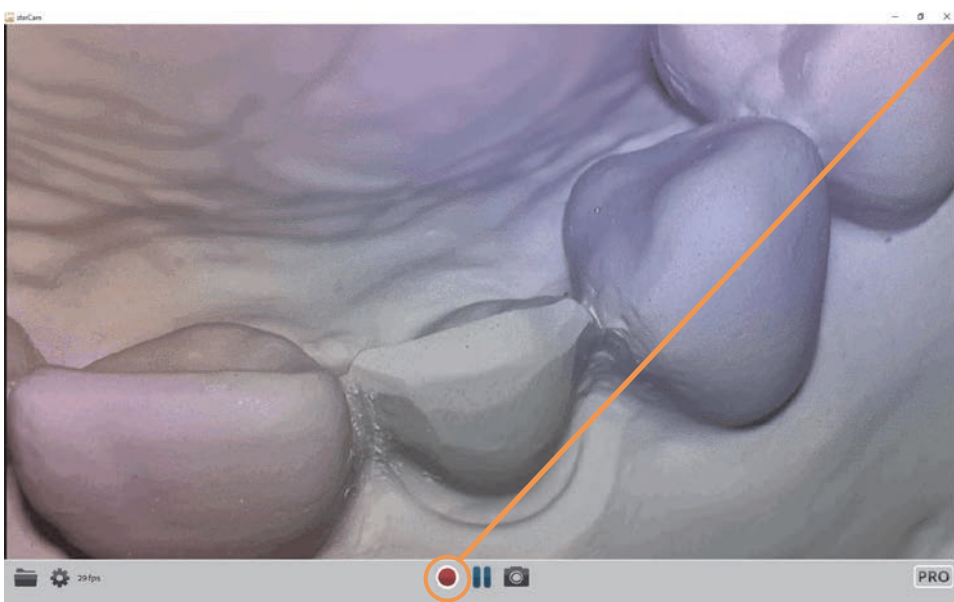
Pause live stream / recording: by pressing the pause button a standing picture will be shown on the screen. While recording the record is interrupted and stopped. The pause symbol changes to the PLAY button. ▶

To end the still picture press the PLAY button.



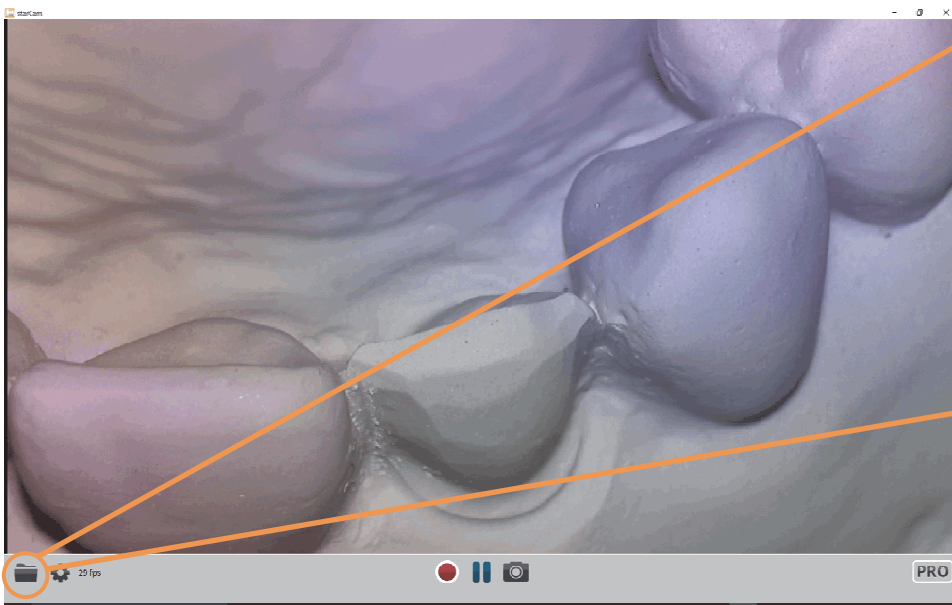
Start recording: by pressing the RECORD button or pressing the foot switch longer (more than 2 seconds) the recording starts. If adjusted you hear an acoustic feedback (Bam-Bim).

Advise: you can also take single pictures during the recording. (Pressing the foot switch shortly)



End recording: by pressing the RECORD button or pressing the foot switch longer (more than 2 seconds) again the recording ends. If adjusted you hear an acoustic feedback (Bim-Bam).

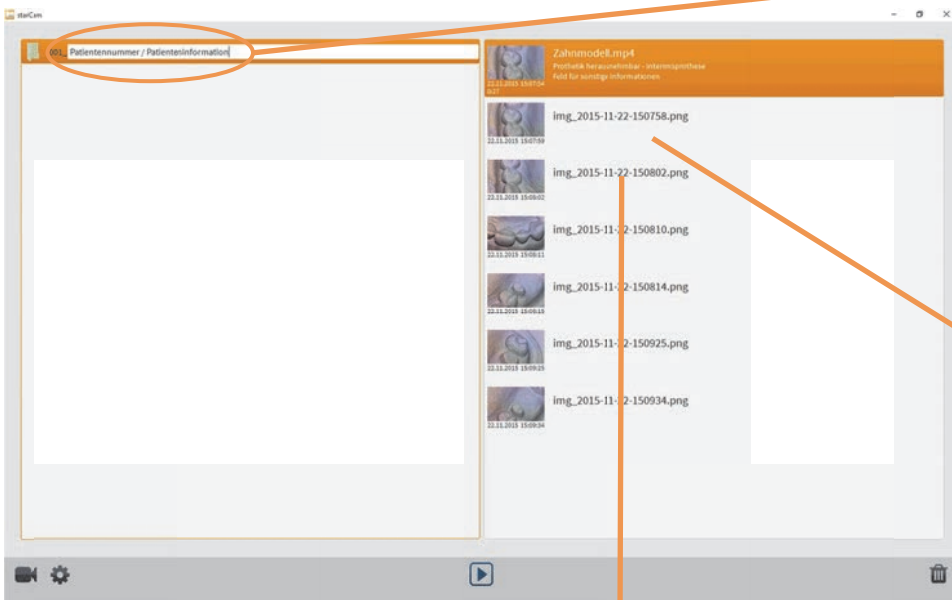
Advise: after ending recording it is still possible to take single pictures. (Pressing the foot switch shortly)



The recording automatically is saved in the library. It is possible to start directly a new recording which creates a new file in the library.

Switch to the library after ending recording or photo shooting by clicking the FOLDER symbol.

Administration of the library



Each session creates a new study/trial and is automatically consecutively numbered.

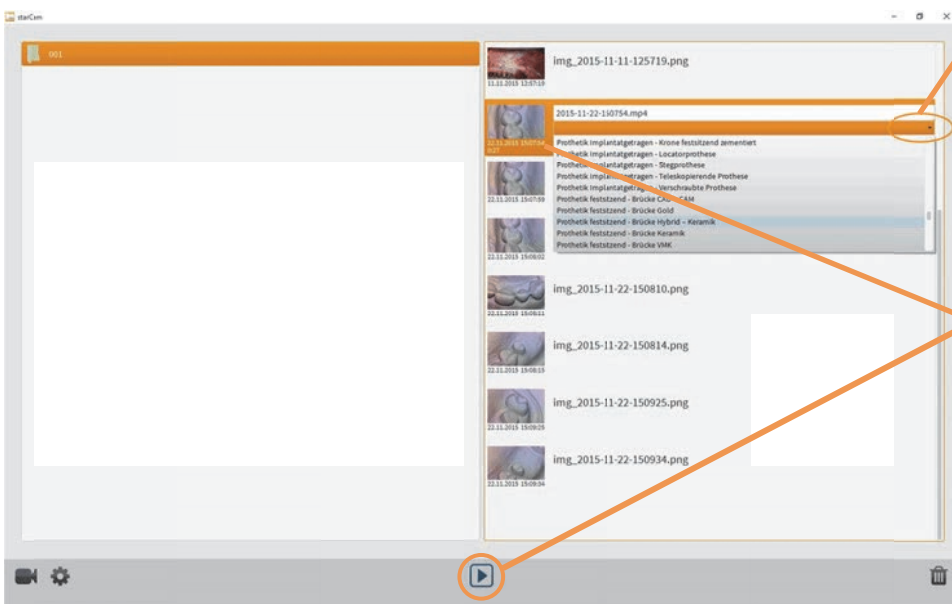
The name of the trial can be changed anytime.

On the right side the content of the selected trial is displayed.

Pictures = .png

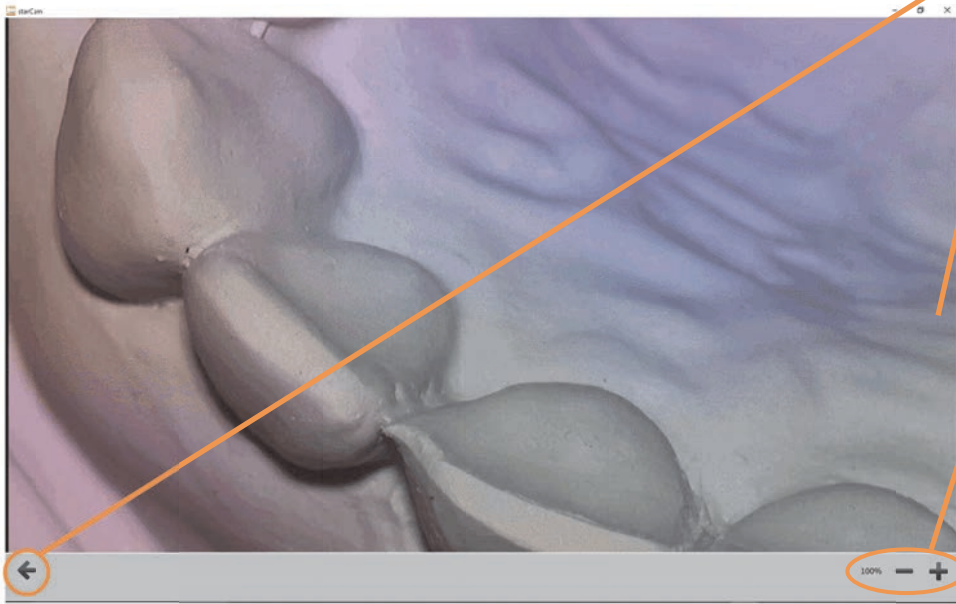
Recordings = .mp4

Recordings and pictures can be renamed anytime.



You can also add a description of the treatment. (Templates and free text)

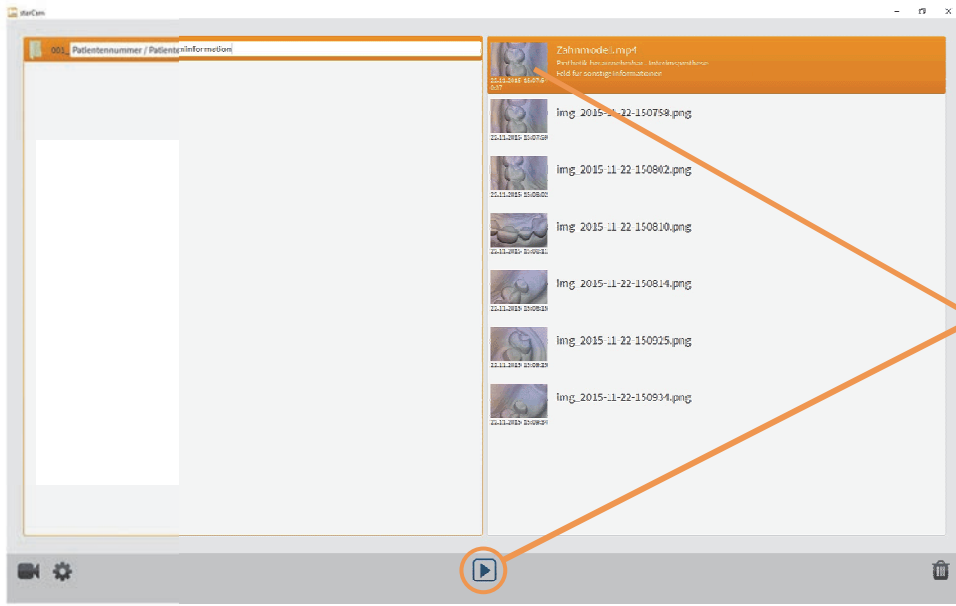
Through double-clicking on a picture or pressing the PLAY button you enter the viewing mode.



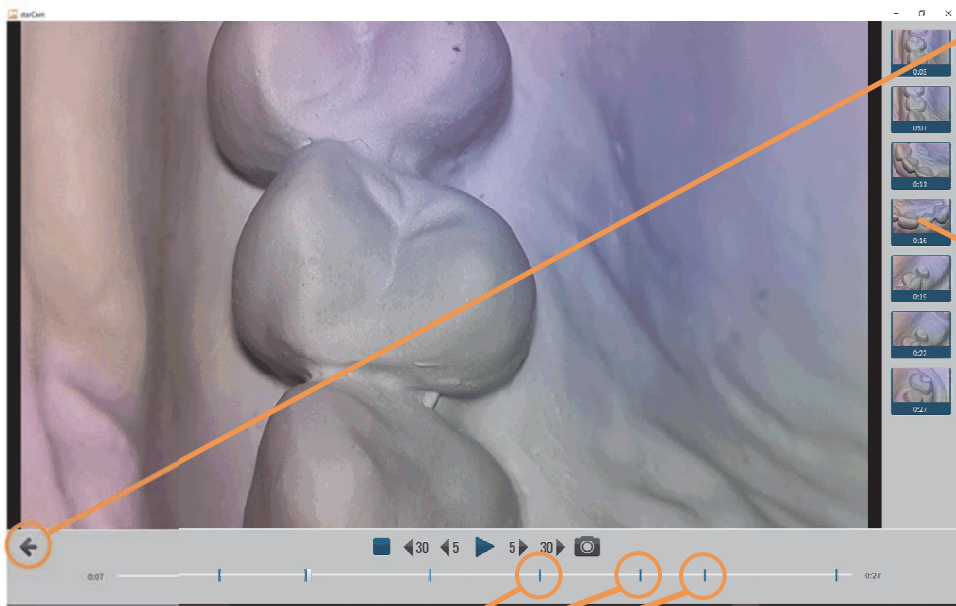
The BACK symbol ends the viewing mode and opens the library again.

By using the arrow keys left/right on your keyboard you can switch between the pictures.

By scrolling up or down or by pressing the +/- symbols you can zoom in and out (100% - 600%)



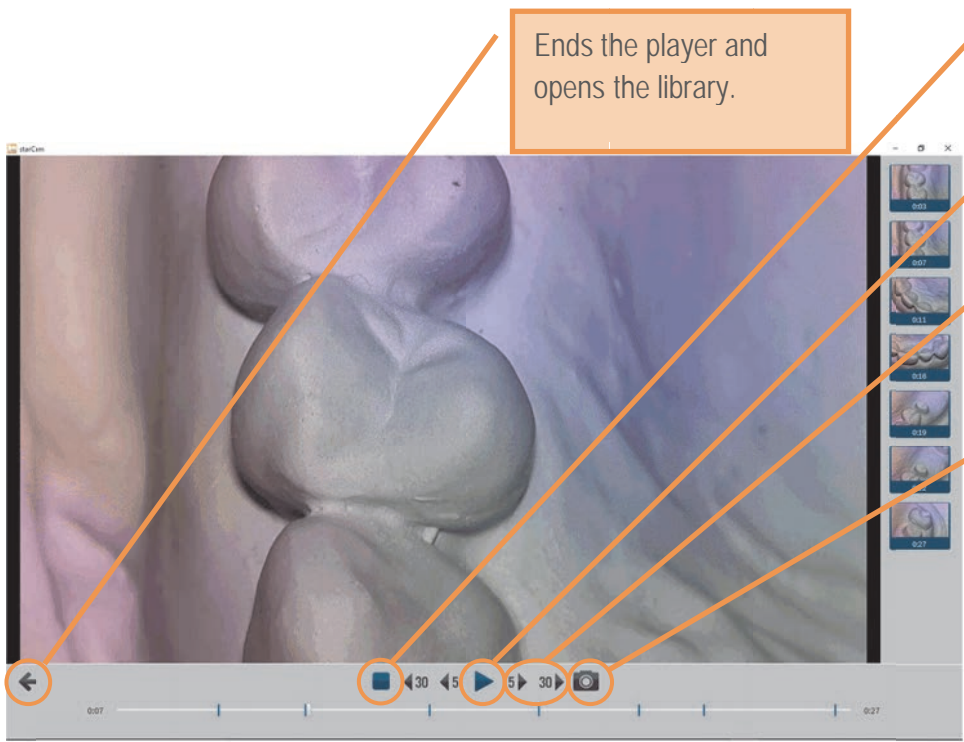
Through double-clicking on a recording or pressing the PLAY button you enter the MOVIE player.



The BACK symbol ends the movie player and opens the library again.

Here are the pictures shown which have been taken during the recording. By clicking on the picture the recording will jump to this marked position in the timeline.

Each picture is marked in the timeline by a small blue bar.



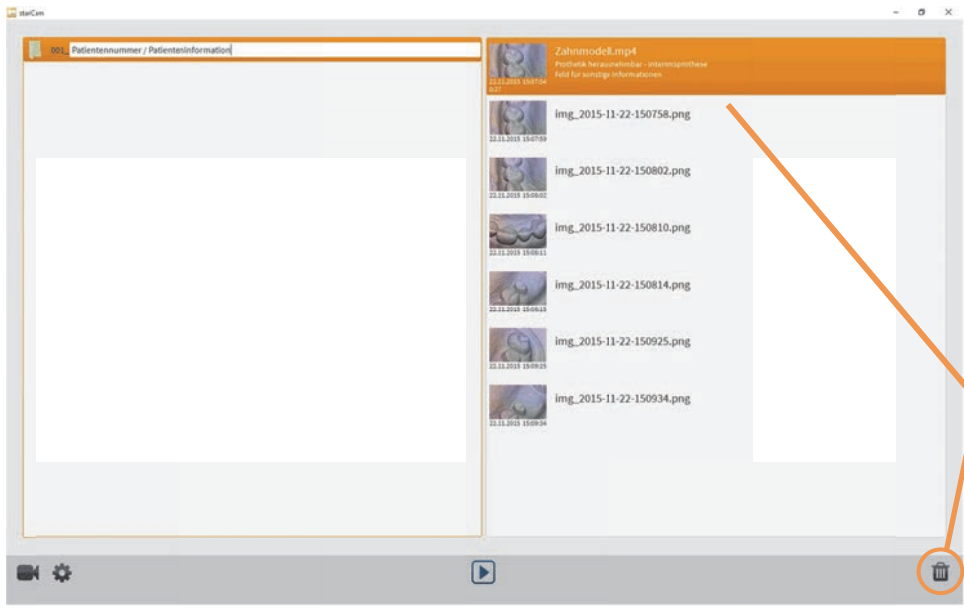
Ends the player and opens the library.

STOPS the playback and returns to the start

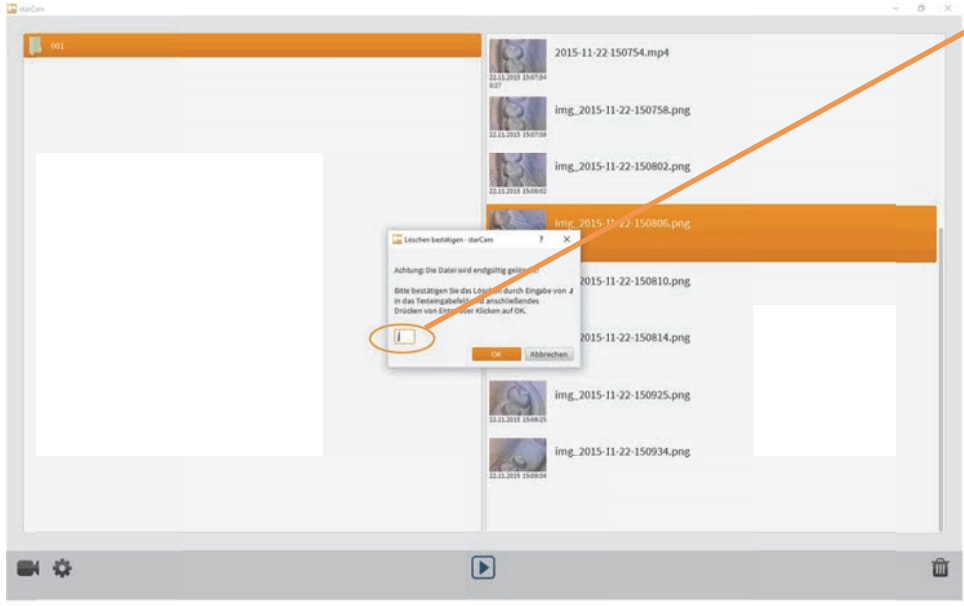
START / PAUSE the playback

Fast forward / rewind in the recording by 3 / 30 seconds

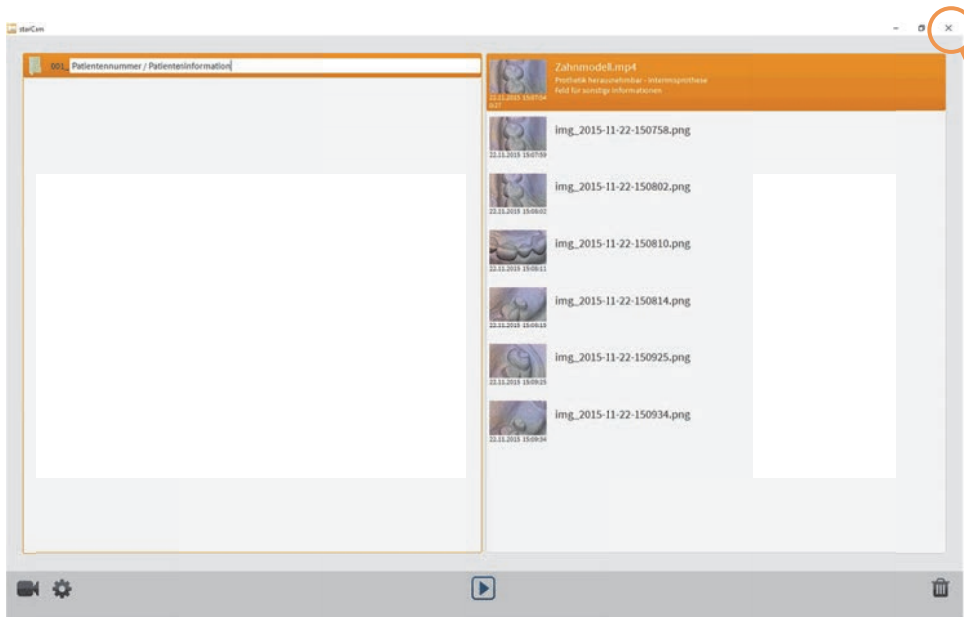
Advice: it is possible to take an additional picture of the recording which will be added automatically to this trial.



Marked pictures and recordings can be deleted by clicking this symbol.

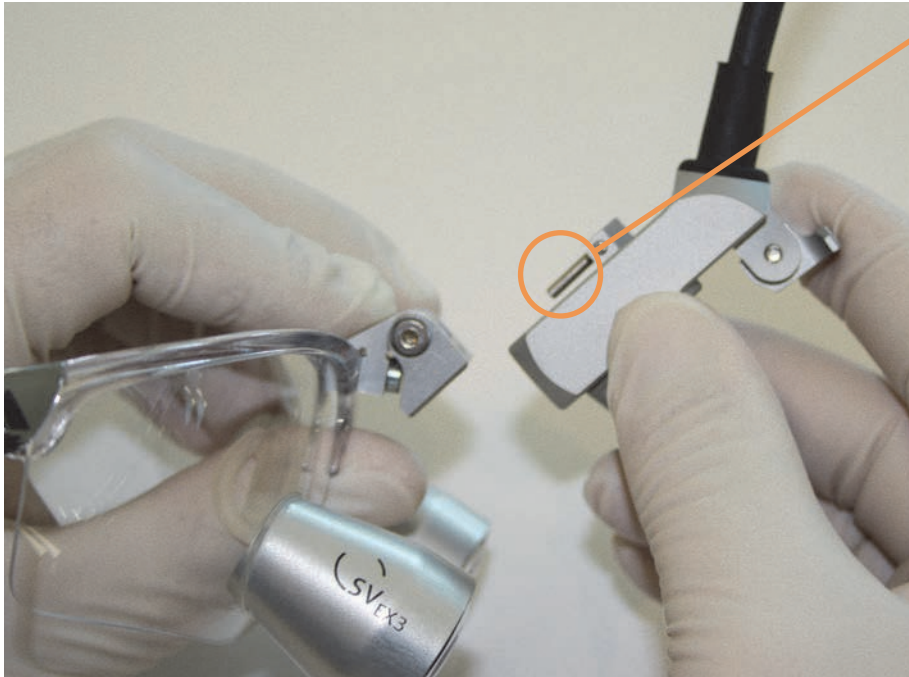


You will be asked to confirm the final deletion with "Y". Thus preventing an accidentally elimination of the files.
After confirming with "Y" the file is irreversible deleted.



To end the software click on the [X]

How to adapt the starCam to your loupes



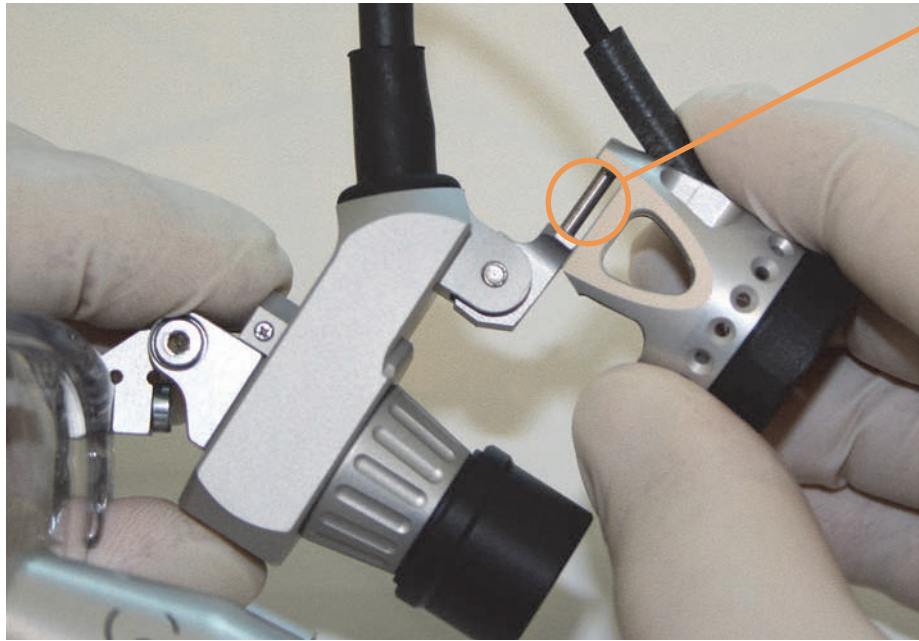
Put the camera's pin in the adapter of the loupes.



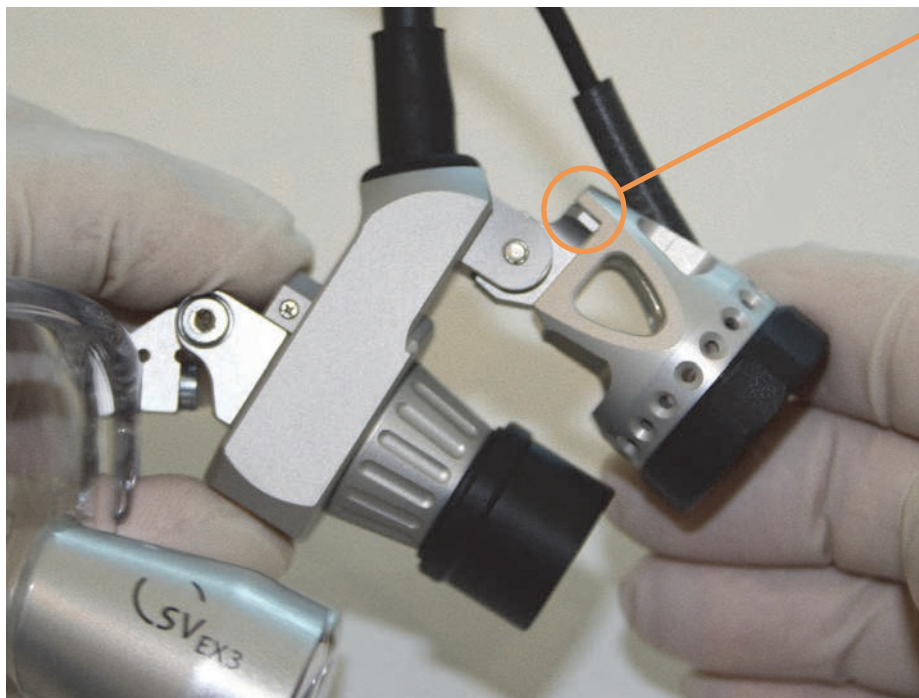
Put the pin up to the stop.



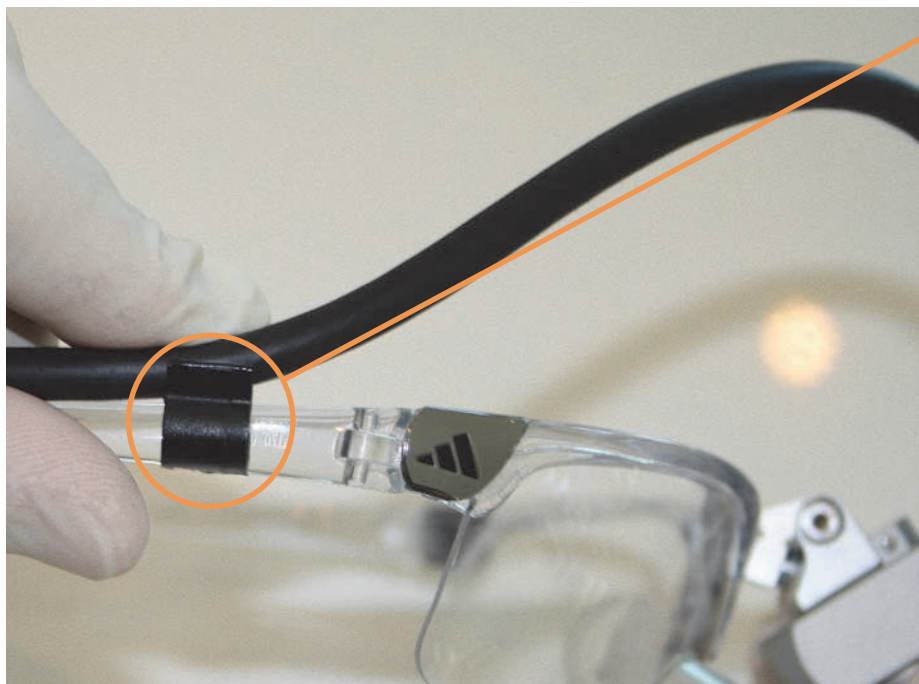
Tighten the adapter lightly with an Allen key [Inbus].



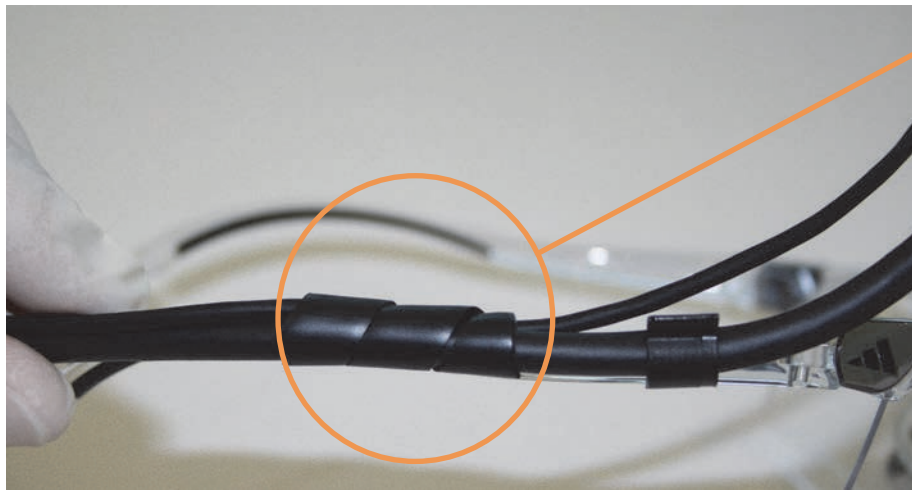
Put the starLight's pin in the adapter of the camera.



Put the pin up to the stop.

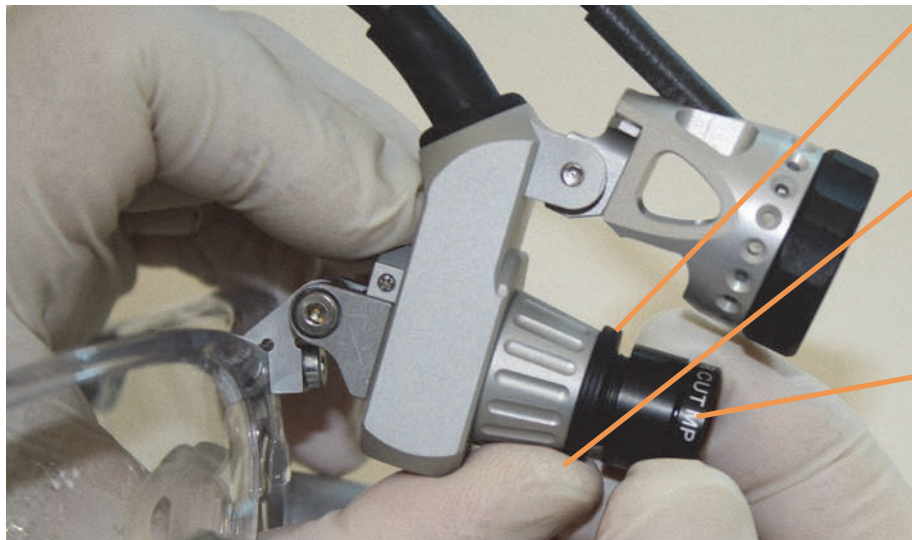


Put the USB cable in the cable holder of the loupes.



Bring the cable of the starLight together with the USB cable of the camera by using the spiral cable holders.

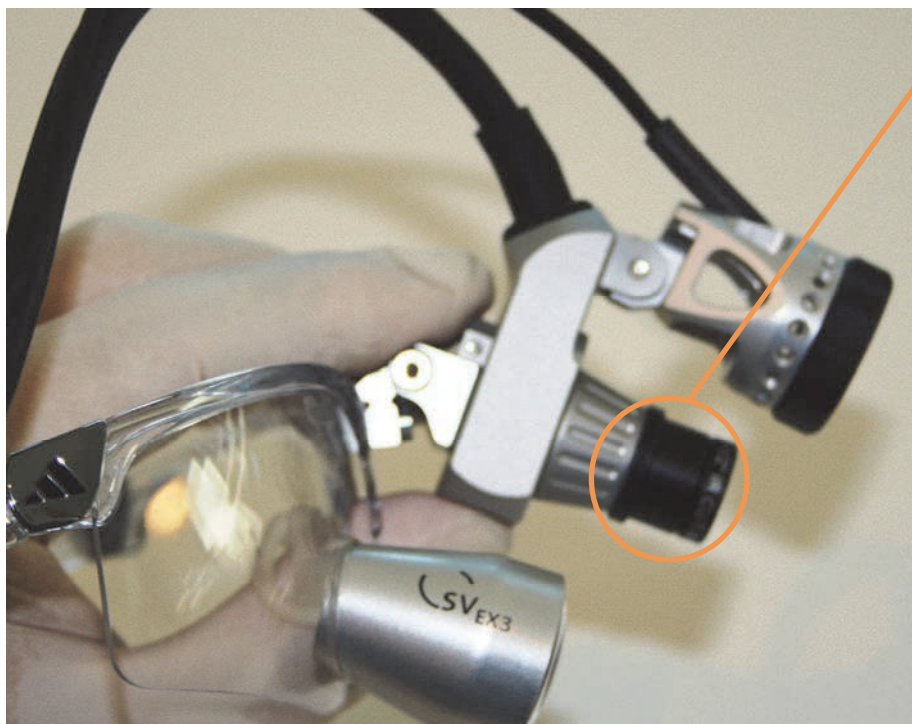
Prepare starCam for readjustment



Loose the lock nut by turning counterclockwise.

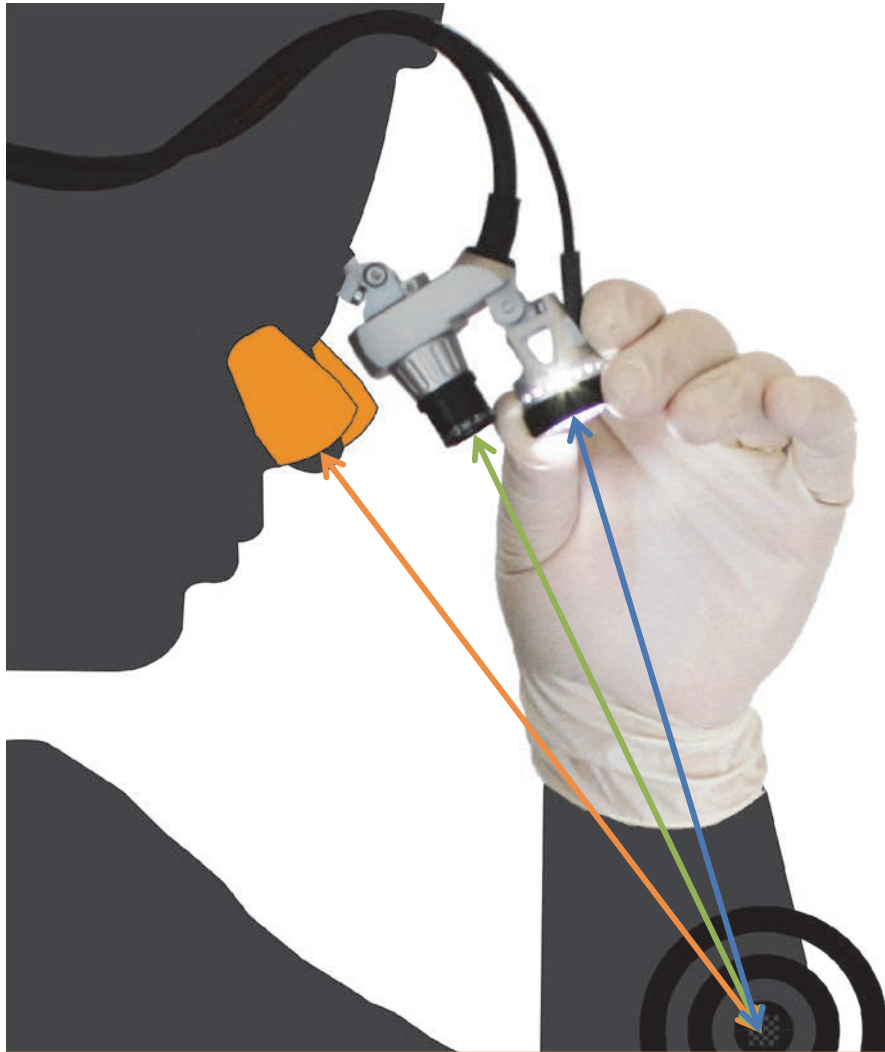
Fixate the lightly loosen lock nut with your thumbs.

At the same time screw back the lens clockwise to the stop.



The focal length is now set on endless.

Adjustment of the starCam

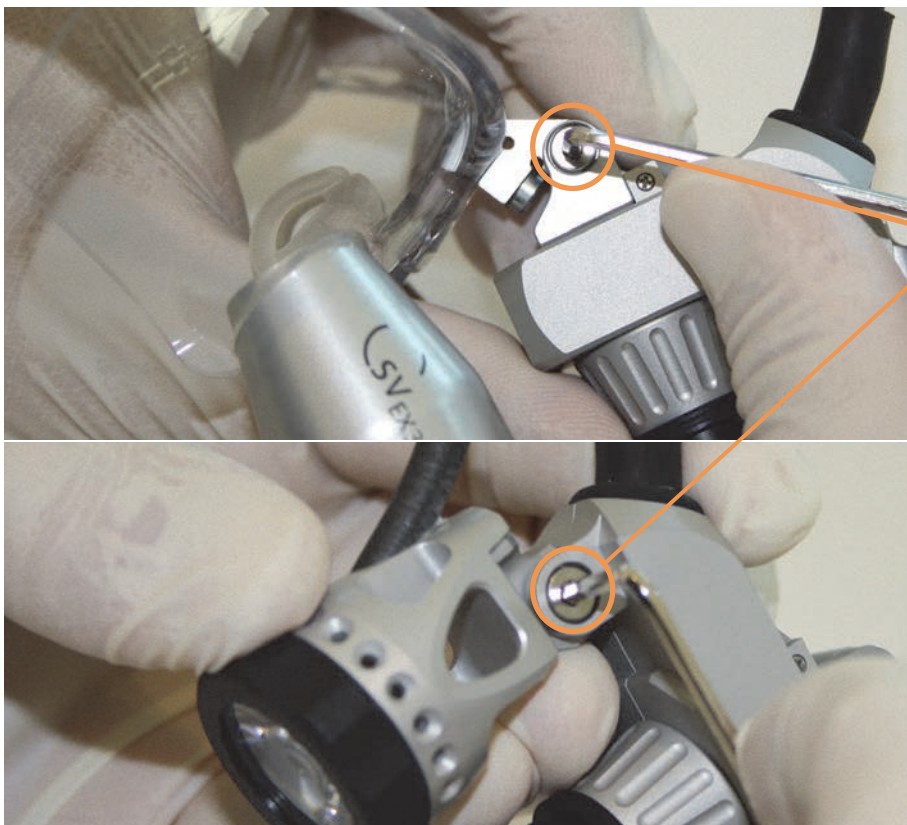


Fit on the loupes including the starCam and the starLight. Place the sheet of paper with the test picture on a flat surface in front of you. Look at the center of the test picture and decrease the working distance until you get a clear picture with your loupes.

Adjust the tilt angle of the camera and the light accordingly so both focus on the middle of the test picture too.

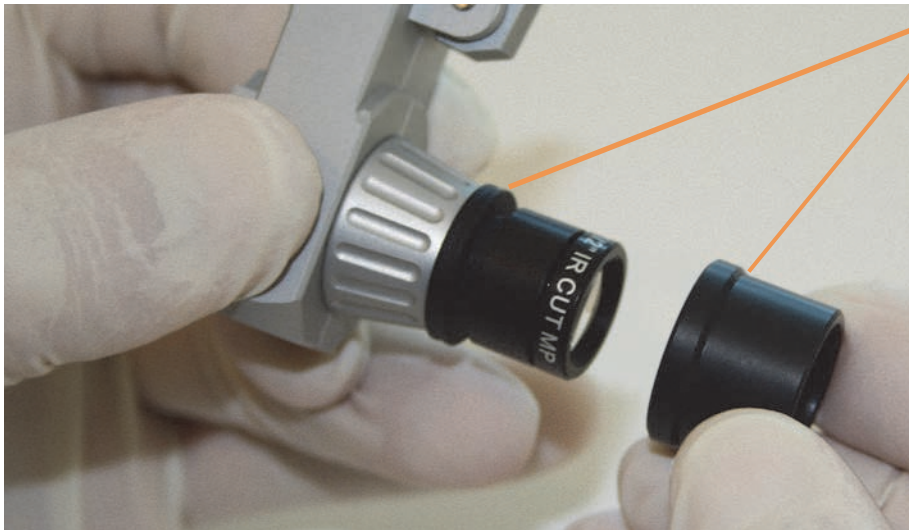
Turn the lens of the camera counter clockwise until you get a clear picture of the test image.

Advice: it is recommended having a second person to assist during the adjustment process. In this way you can ensure a stable working distance and thus a perfectly adjusted camera.



Secure the adjusted positions of the starCam and the starLight at the specific adapters with an Allen key.

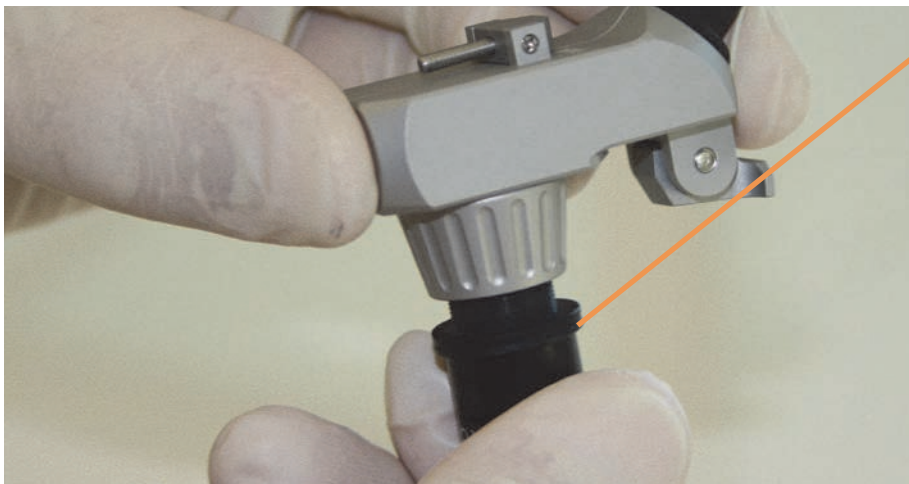
Assembling / disassembling of the touch guard



Fit the touch protection directly on the lens till it clicks in with the locknut.



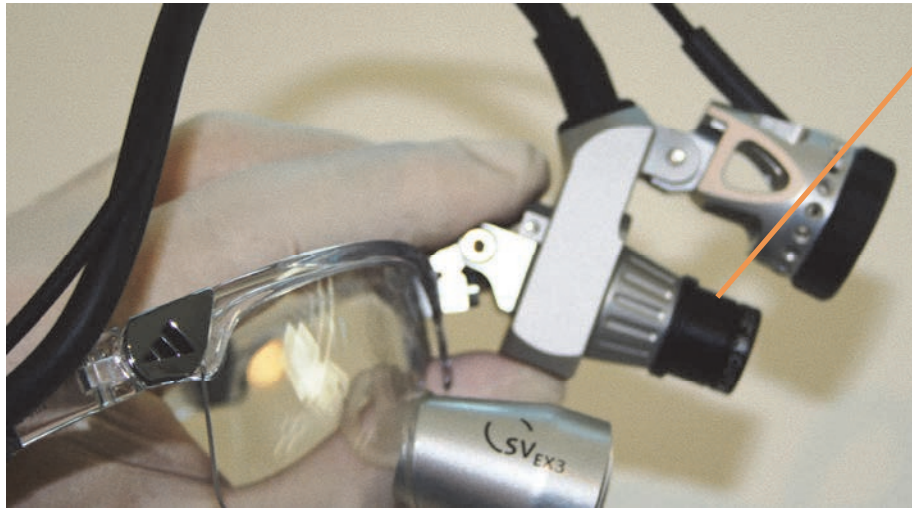
Turn the touch protection clockwise and pull it off to disassemble it. In this way the locknut getting loose can be prevented.



To change the lens loosen the locknut and hold the camera down. Now unscrew the lens completely.



Before you screw in the lens please pay attention that the red glass is dirt and dust-free.



After each lens change you need to adjust the camera optic again (please see "Adjustment of the starCam").

Print out the test image for camera adjustment.

