

# MicroREC

**Custom Surgical**<sup>®</sup>





## User Manual

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For more details, visit our website: [customsurgical.co](https://www.customsurgical.co)

Custom Surgical GmbH.

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Name and address manufacturer information and symbol ISO 7000 - 3082	
Product Name	<b>MicroREC</b>
Medical device symbol ISO 15223-1:2021	
CE mark	
Read the instructions symbol ISO 7000 - 1641	

# MicroREC

 MRC









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## 1. A Thank You Note

Hello, Customer!

We at Custom Surgical really appreciate your trust.

Now you can enjoy the easiest way of recording, sharing, broadcasting, and connecting your procedures with your smartphone.

Forget about cables, computers, or USB devices. Your time should be spent on what really matters.

Share your procedures with your colleagues, students, and partners or with us in just a few clicks. Share them with the hashtag **#MicroREC!**

We would love to share your procedures on our social accounts.

**Website:** [customsurgical.co](https://customsurgical.co)

**Instagram:** @customsurgical

**Facebook:** @customsurgical1

**LinkedIn:** @customsurgical

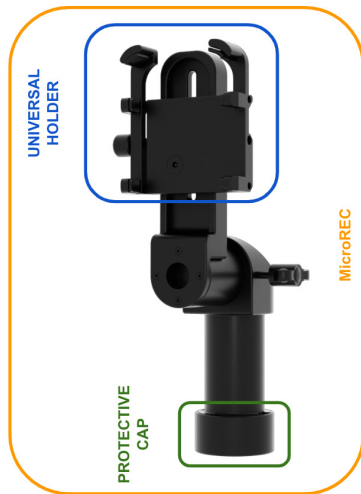
Don't forget to boost the quality of your recordings and organize them in the best way through the MicroREC app.



download for free

## 2. Package Content

The package contains one MicroREC, one protective cap, one Universal Holder, and the user manual.



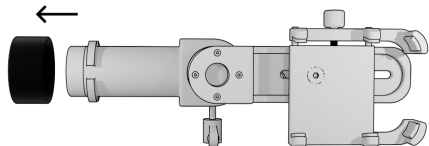
### 3. How to Install

#### 3.1. How to Install the MicroREC (No Adapter Required)

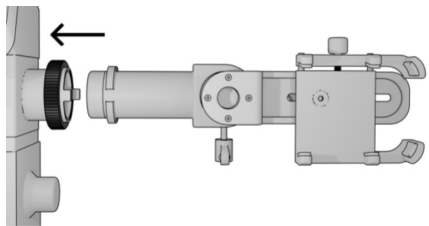
MicroREC itself is compatible with Zeiss microscopes and slit lamps, Takagi microscopes and slit lamps, Topcon, Nidek, and many other slit lamps with no need for adapters.

Before following the next steps, make sure that your microscope or slit lamp does not need an adapter. If it needs an adapter, skip this chapter and go to the following: "3.2 How to Install a MicroREC (Adapter required)."

**Step 0.** Remove the protective cap.

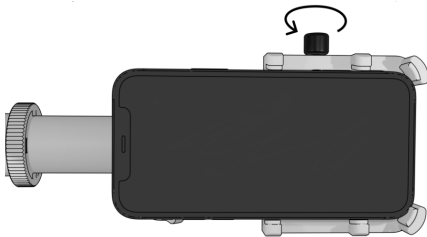


**Step 1.** Introduce the MicroREC sleeve into the microscope's Beam Splitter or the slit lamp and tighten the thread. It can be attached to the right or left side of the microscope.



**Step 2.** Install the smartphone in the Universal Holder.

**Step 3.** Tighten the knob of the Universal Holder to secure the smartphone.



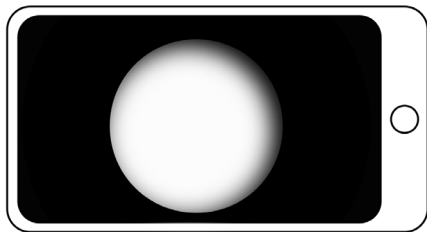
**Step 4.** Check the distance and alignment of the camera with the MicroREC. If the distance is not appropriate, remove the arm's knob and the arm to remove the 1 mm spacers.

Remove as many as you need to achieve the correct distance.

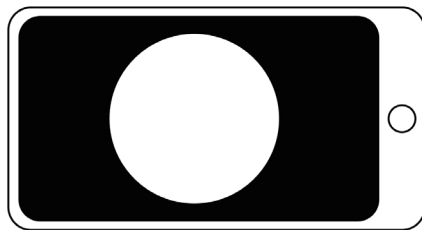
Note: If the camera is too close, when you tight the arm's knob, the camera may be tilted.



**Step 5.** Slide and rotate your smartphone with the Universal Holder until the camera is aligned with the MicroREC's optical opening. Move it until you can see a perfectly shaped circle with no shadows.

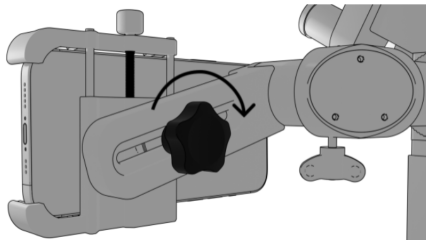


**X** Incorrect alignment. Shadows in the border of the image.

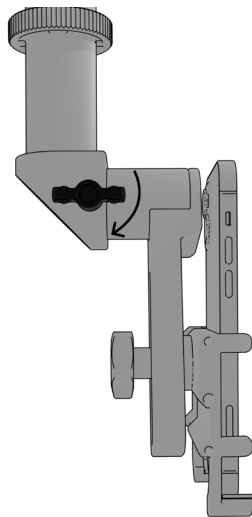
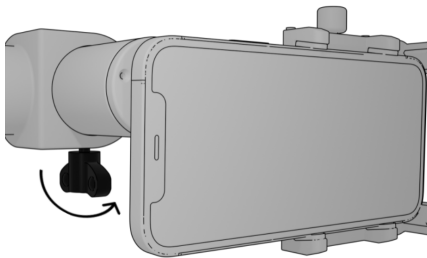


✓ Correct alignment. Sharp border.

**Step 6.** Tighten the arm's knob to secure the position of the smartphone.



**Step 7.** Loosen the rotation knob to rotate the smartphone to the desired position (either portrait or landscape position). Tighten the rotation knob.



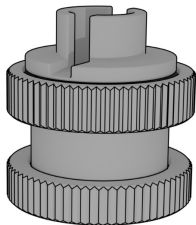
**Step 8.** Open the MicroREC app (remember to download it previously) to enhance your recording experience. You are ready to go!



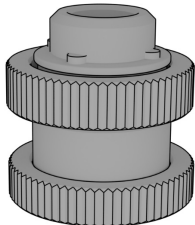
### 3. 2. How to Install the MicroREC (Adapter Required)

In the case of Leica microscopes and Haag-Streit slit lamps, the following information has to be taken into account:

**Leica Adapter:** It is attached to the MicroREC sleeve (Protective Cap must be removed) and is compatible with Leica microscopes.



**Leica Adapter**  
(red thread)

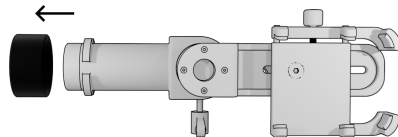


**Haag-Streit Adapter**  
(grey thread)

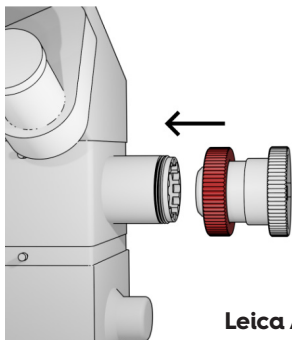
**Haag-Streit Adapter:** It is attached to the MicroREC sleeve (Protective Cap must be removed) and is compatible with Haag-Streit slit lamps.

#### Steps to follow

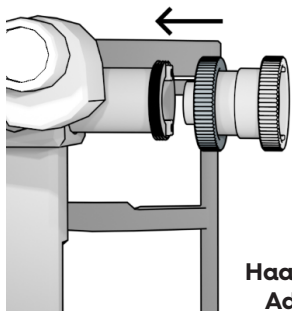
**Step 0.** Remove the protective cap.



**Step 1.** Connect the Leica or Haag-Streit adapter to the microscope or slit lamp through the colored part of the adapter. They can be attached on the right or left side of the microscope or slit lamp. Thread in until it is tight.

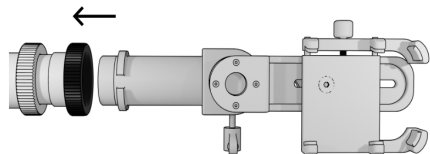


**Leica Adapter**



**Haag-Streit  
Adapter**

**Step 2.** Introduce the MicroREC sleeve into the adapter. Thread in until it is tight.



**Step 3.** Install the smartphone in the Universal Holder.

**Next: Follow the steps from p. 10 to p. 15.**

#### 4. Intended Use

The MicroREC is an optical system intended to be used, fitting it in surgical microscopes and slit lamps to capture images with a smartphone.

This device is not intended to serve as a diagnostic device or support for decision-making.

#### 5. Cleaning and Maintenance

- Remember to clean your MicroREC system regularly.
- Clean it regularly with a special optics cloth.
- Clean the optics using only small quantities of pure water. Do not use corrosive liquids or oils for cleaning. Never touch the optics with your fingers.
- Do not sterilize your MicroREC system.
- If the product gets in contact with abundant liquid, wipe it immediately with a soft cloth. In case the liquid enters an unreachable surface, place the product in a way that the liquid may exit.
- Do not dismantle the device or directly manipulate the screws or the lenses.

- If you detect spots, dust, or residue, use a soft cloth for lenses to clean.

## 6. Warnings and Safety

- Verify the physical integrity of the product before using it.
- Use only indoors.
- Store the device in a clean and safe location.
- Do not place heavy objects on top of the product.
- Do not expose the product or any of its components to high temperatures.
- Keep out of the reach of children.
- Do not shake the device violently.
- Do not apply excessive force when mounting it. The device is designed to fit properly.

## 7. 1. Warranty

We allow you to return your product during the first **14 days after you received it** and to claim a full refund of the product cost after delivery.

We provide a **2-year warranty** for the adapter to ensure that there are no material or production defects. All manufacturing issues reported within 2 years after delivery will be entitled to a replacement or a fix at **no extra cost**.

The warranty does not cover:

- damages or defects caused by misuse
- neglect
- accidental damage
- falls
- loss failure to follow operating instructions

- alteration, modification, or repair of the product including that caused by authorized workshops or persons.
- damage caused by wars, natural disasters, terrorism, or extreme conditions, and Custom Surgical leaves it up to whether to cover such claims for reparation or replacements.

The warranty covers all products purchased on our website, through official distributors, or sold by us or our partners on authorized marketplaces. We cannot apply the warranty to products purchased from unauthorized third parties or resellers.

The warranty is subject to the law of Germany.

## 7.2. How to Claim a Warranty

Make sure you have the following things before you claim your warranty:

1. Original packaging
2. The receipt of your purchase

### **If you purchased the product through the authorized distributor**

Please contact your distributor and follow their instructions. You can ask us about the contact information for the distributor via Whatsapp:

+49 178 2064226

### **If you purchased the product through [customsurgical.co](https://www.customsurgical.co)**

Please contact us at [support@customsurgical.co](mailto:support@customsurgical.co)

## 8. The MicroREC App

### 8.1 Intended Use

The MicroREC app is custom-built to be the perfect complement for MicroREC.

it is intended to capture and store pictures and videos. The MicroREC App **is not** intended for diagnosis.

MicroREC app exists to optimize your slit lamp or microscopy recordings but also organize them on files, share them quickly, edit them, and much more.

### 8.2 How to Download the App

To download the MicroREC App you can either:

#### 1. Scan this QR:

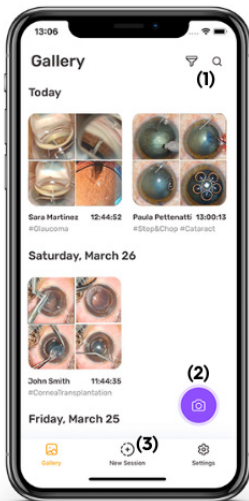


#### 2. Or, find it on App Store (iOS) or Play Store (Android)

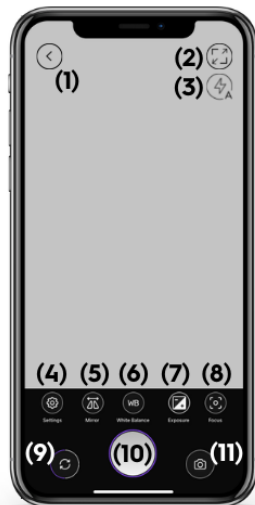


### 8.3. How to Use the MicroREC App

The MicroREC app is intuitive and easy to use. It allows the recording, storing, and sharing of images and videos. See the overview of the basic features below:

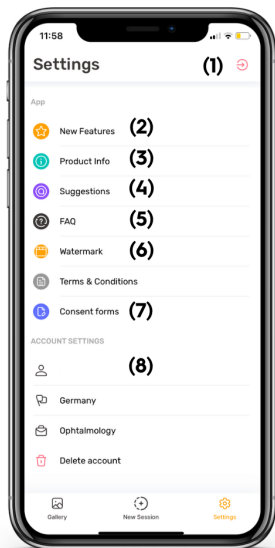


**(1)** filter or search for your session through date, patient ID, or tag; **(2)** start recording right away; **(3)** add information in the new session before recording.



**(1)** come back to the main session; **(2)** full screen **(3)** setting flash: auto, off or on; **(4)** quality control (720p up to 4k or fps) and simple audio control; **(5)** mirroring; **(6)** white balance control;

(7) brightness control; (8) focus control; (9) rotation 90°; (10) take a picture/video; (11) change to video/picture modus



(1) log out; (2) get to know the new features we launch every six months; (3) get to know all the information about the MicroREC App; (4) let here your feedback; (5) FAQ; (6) customize the watermark; (7) download consent forms to give to your patients; (8) add your info



## 9. FAQs

### 1. Is the equipment CE-approved?

Yes, MicroREC is CE-approved.

### 2. Do you have a manual in different languages?

Yes, we have this manual in English, German, Spanish, and Portuguese. To download a manual in these languages, please go to our website: [customsurgical.co/manuals](http://customsurgical.co/manuals)

### 3. What is a beam splitter?

A beam splitter is an attachment that captures a beam of light from a microscope and directs it to a smartphone, allowing for image recording.

### 4. My microscope/slit lamp does not appear on the compatibility list. Can

### I still connect the MicroREC?

If your system is not on the list, send us an email or a message to check the compatibility of your specific model.

[support@customsurgical.co](mailto:support@customsurgical.co)

+49 178 2064226

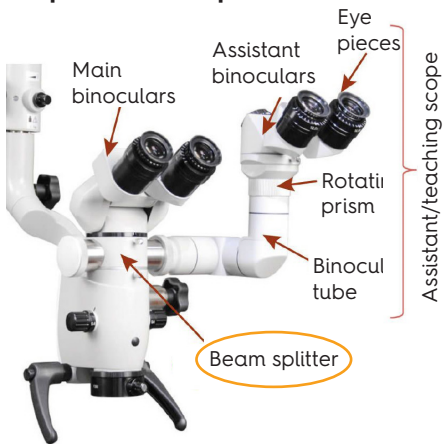
### 5. Can I use any smartphone with a MicroREC?

You can attach any smartphone to your MicroREC with a Universal Smartphone Holder. To use the app, you have to follow one of these requirements: iOS 13.5 or later for iPhones, Android 7.0, and up for other smartphones.

### 6. Are the pictures and videos saved in my smartphone gallery or the app?

All visual materials you record with MicroREC are collected and stored in the app, separate from your personal files.

## 7. How do I know if my microscope/slit lamp has a beamsplitter?



The beam splitter is usually located between the binoculars and the optics of the microscope. It has either one or two ports to connect cameras or secondary observers. If you are still

not sure whether your microscope has one, you can contact us and share a couple of pictures of your microscope. We will be happy to let you know what type of system you need.

## 8. What if I change my email address?

You can transfer your account to a new email address. To do so, go to the EDIT PROFILE section in your app, write your new email in the EMAIL ADDRESS section and save changes. After saving, you will receive a confirmation email to ensure your new email is valid. Confirm the new email – and you are good to go.

## 9. What if I forget my password?

You can always reset your password by tapping FORGOT PASSWORD on the login page.

## 10. What if I change my phone?

If you change your phone, you need to download the app and log in with your email and password. You do not have to register again.

**Warning:** If you change your phone, the pictures and videos will be lost. Remember to download them before you change it.

### **11. Can a MicroREC app be used by more than one person?**

You must register and create your account. This account is personal and non-transferable.

### **12. I am sharing a MicroREC with other doctors. Can we all get access to the MicroREC app?**

If you are sharing a MicroREC, every doctor can download a MicroREC app and create their own account.

## **10. Contacts**

### **We're always here for you.**

Find more information at [customsurgical.co](http://customsurgical.co)

To get any additional help or share your feedback, please reach out to [support@customsurgical.co](mailto:support@customsurgical.co)



Let's connect on social media!  
Tag @customsurgical,  
#customsurgical and #MicroREC

# Micro REC

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