

KERN ODC-87 Microscope Camera



# KERN ODC-87 Microscope Camera Instruction Manual

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**KERN ODC-87 Microscope Camera**



## Specifications

- **Model:** KERN ODC 874, ODC 881
- **Resolution:** 3.1 MP (ODC 874), 5.1 MP (ODC 881)
- **Interface:** USB 2.0 (ODC 874), USB 3.0 (ODC 881)
- **Sensor:** 1/2.7 CMOS (ODC 874), 1/2.8 CMOS (ODC 881)
- **Supported operating systems:** Windows XP, Vista, 7, 8, 10

## Product Usage Instructions

### Before Use

1. Always use an approved power cable to prevent damages due to overheating or electric shock.
2. Do not open the housing or touch internal components to avoid damaging them.
3. Disconnect the power cable before cleaning the camera.
4. Keep the sensor clear from dust and do not touch it to avoid affecting the image quality.
5. Attach protective covers when the camera is not in use.

### Mounting

1. Remove the black cover at the bottom of the camera.
2. Use the appropriate adjustment ring for microscopes with different eyepiece diameters for correct mounting.
3. Adjust the microscope for trinocular usage if necessary.

### PC Connection

1. Establish a USB connection using the provided USB cable.
2. Install the software from the included CD.
3. Refer to the Help-files and User Guide for software operation and digital microscopy instructions.

## FAQ

• **Q: What should I do if the camera is not recognized by my computer?**

- A: Make sure the USB connection is secure and try using a different USB port. Install the necessary drivers from the software CD.

• **Q: How do I calibrate the camera?**

- A: Use the provided object micrometer for calibration following the software instructions.

• **Q: Can I use this camera with a stereo microscope?**

- A: Yes, you may need an adjustment ring for microscopes with different eyepiece diameters.

## Before use

You should ensure that the device is not exposed to direct sunlight, temperatures which are too high or too low, vibrations, dust or a high level of humidity. The ideal temperature range is between 0 and 40°C and a relative humidity of 85% should not be exceeded. Always make sure that you use an approved power cable. Thus, possible damages by reason of the development of overheating (fire hazard) or an electric shock can be prevented. Do not open the housing and touch the internal component. There is the risk of damaging them and affecting the functionality of the camera. In order to carry out cleanings always disconnect the power cable from the camera. Always keep the sensor clear from dust and do not touch it. Otherwise, there is the risk of affecting the microscopic image. In case of non-use always attach the protective covers.

## Technical data

Model  KERN	Resolution	Interface	Sensor	Frame rate	Color / Monochrome	Supported operating systems
ODC 874	3,1 MP	USB 2.0	1/2,7" CMOS	3 – 7,5 fps	Color	Win, XP, Vista, 7, 8, 10
ODC 881	5,1 MP	USB 3.0	1/2,8" CMOS	20 fps	Color	Win, XP, Vista, 7, 8, 10

## Scope of delivery

- Microscope camera
- USB cable
- Object micrometer for calibration
- Software CD

**Free download:**

[www.kern-sohn.com](http://www.kern-sohn.com) > DOWNLOADS > SOFTWARE > Microscope VIS Pro

- Adjustment rings (Ø 30.0 mm + Ø 30.5 mm) for eyepiece adapter

## Mounting

1. Remove the black cover at the bottom of the camera.
2. The round connecting piece, where the cover was attached, has a standardized diameter (Ø 23.2 mm). Thus, the camera suits all microscopes of which the eyepieces have this standard size.
3. For the mounting to the microscope, one of the eyepieces needs to be removed from the microscope tube and replaced by the eyepiece camera

### Important:

For microscopes, that have a different eyepiece diameter (30.0 mm or 30.5 mm, mostly used for stereo microscopes), you need to apply the appropriate adjustment ring in order to mount the eyepiece camera correctly.

4. If necessary, adjust the microscope according to the trinocular usage (with the help of the trino toggle rod / trino toggle wheel).


## PC connection

1. Establish a USB connection via a USB cable.
2. Installing the software with the help of the CD.
3. Both the supplied "Help"-files and the software-internal "User Guide" include all information and instructions about the operation of the software or of digital microscopy.

## Contact

- Ziegelei 1
- D-72336 Balingen
- E-Mail: [info@kern-sohn.com](mailto:info@kern-sohn.com)
- Tel: +49-[0]7433- 9933-0
- Fax: +49-[0]7433-9933-149
- Internet: [www.kern-sohn.com](http://www.kern-sohn.com)

## Documents / Resources

	<p><a href="#">KERN ODC-87 Microscope Camera</a> [pdf] Instruction Manual ODC-874, ODC-881, ODC-87 Microscope Camera, ODC-87, Microscope Camera, Camera</p>
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## References

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- [User Manual](#)

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