Manuals+ — User Manuals Simplified.

KERN ODC Series Microscope Camera User Manual

Contents

KERN ODC Series Microscope Camera

Specifications

Model	Resolution	Interface	Sensor	Frame rate	Supported operating systems
KERN ODC 822	1.3 MP	USB 2.0	1/3 CMOS	15 – 48 fps	Win, XP, Vista, 7, 8, 10
KERN ODC 824	3.1 MP	USB 2.0	1/2 CMOS	11.5 – 45 fps	Win, XP, Vista, 7, 8, 10
KERN ODC 825	5.1 MP	USB 2.0	1/2.5 CMOS	6.8 – 55 fps	Win, XP, Vista, 7, 8, 10
KERN ODC 831	3.1 MP	USB 3.0	1/3 CMOS	Color	Win, XP, Vista, 7, 8, 10
KERN ODC 832	5.1 MP	USB 3.0	1/2.5 CMOS	Color	Win, XP, Vista, 7, 8, 10
KERN ODC 841	20 MP	USB 3.0	1 CMOS	Color	Win, XP, Vista, 7, 8, 10

Product Usage Instructions

Before Use

- Always use an approved power cable to prevent damages due to] overheating or electric shock.
- Avoid opening the housing or touching internal components to prevent damage and functionality issues.
- Disconnect the power cable before cleaning the camera.
- Keep the sensor clear from dust and do not touch it to maintain the quality of the microscopic image.
- Attach protective covers when the camera is not in use.

Scope of Delivery

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

Mounting

1. Remove the black cover at the bottom of the camera.
2. The thread is a standardized C-mount thread. Special C-mount adapters are required for connecting to a microscope.
3. Attach the C-mount adapter to the microscope connection point and then screw the camera onto the adapter.
4. Select the right C-mount adapter recommended by the microscope manufacturer for proper connection.

PC Connection

1. Establish a USB connection using the USB cable.
2. Install the software from the CD or download it.
3. Refer to the software's User Guide for instructions on software operation and digital microscopy.

Frequently Asked Questions (FAQ):
Q: Can I use a different power cable with the camera?
A: No, always use an approved power cable to prevent any damages or safety hazards.

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User instructions Microscope camera

- KERN ODC-82, ODC-83, ODC-84
- ODC 822, ODC 824, ODC 825
- ODC 831, ODC 832, ODC 841

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	Colour / Monochrome	Supported operating systems
ODC 822	1,3 MP	USB 2.0	1/3" CMOS	15 – 48 fps	Colour	Win, XP, Vista, 7, 8, 10
ODC 824	3,1 MP	USB 2.0	1/2" CMOS	11,5 – 45 fps	Colour	Win, XP, Vista, 7, 8, 10
ODC 825	5,1 MP	USB 2.0	1/2,5" CMOS	6,8 -55 fps	Colour	Win, XP, Vista, 7, 8, 10
ODC 831	3,1 MP	USB 3.0	1/3" CMOS	27,3 – 53,3 fps	Colour	Win, XP, Vista, 7, 8, 10
ODC 832	5,1 MP	USB 3.0	1/2,5" CMOS	14,2 – 101,2 fps	Colour	Win, XP, Vista, 7, 8, 10
ODC 841	20 MP	USB 3.0	1" CMOS	15 – 60 fps	Colour	Win, XP, Vista, 7, 8, 10

Scope of delivery

- Microscope camera
- USB cable
- Object micrometre for calibration
- Software CD
  Free download: **www.kern-sohn.com** > DOWNLOADS > SOFTWARE > Microscope VIS Basic / Pro
- Eyepiece adapter (Ø 23,2 mm)
- 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 thread, where the cover was attached, is a standardized Cmount thread. Thus there are special C mount adapter needed forthe connection to a microscope.
3. For the mounting to the microscope, the C mount adapter is attached to the connection point of the microscope. After that the camera has to be screwed onto the C mount adapter.
   Important
   The choosing of the right C mount adapter depends on the used microscope model. It has to be an adapter, which is adjusted to the construction of the microscope and recommended by the manufacturer as appropriate for the relevant microscope.
4. If necessary, adjust the microscope according to the trinocular usage (with help of the trino toggle rod / trino toggle wheel).

PC connection

1. *Establish USB connection via USB cable.*
2. Installing the software with help of the CD / download.
3. .The software-internal "User Guide" includes all information and instructions about the operation of the software or of digital microscopy.

Documents / Resources

[**KERN ODC Series Microscope Camera**](#) [pdf] User Manual
ODC 822, ODC 824, ODC 825, ODC 831, ODC 832, ODC 841, ODC Series Microscope Camera, ODC Series, Microscope Camera, Camera

References

- 🌐 **Your Name as Your Email | Hover Realnames**
- **User Manual**