Digital microscope sets KERN OBL-S · OBN-S



The digital laboratory assistant with infinity optical unit and fixed, Köhler illumination

Features

- Laboratory microscopes from the OBL and OBN range are now also available to you as a comprehensive digital solution for your live investigations. Optionally available with an mounted tablet or C-mount camera. Naturally, the appropriate C-mount adapter is included with the delivery.
- The mounted KERN ODC 241 tablet-camera has been specially developed for simple, convenient and direct investigation of the sample on the screen. Ideally suited for school pupils and students in education or for demonstration purposes in the laboratory
- The mounted C-mount camera is available in different versions and can be used anywhere
- For detailed information on the individual components, see the relevant product description of the individual item

 A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of the delivery

Technical data

- · Infinity optical system
- Siedentopf 30° inclined/360° rotatable
- Eyepiece: HWF 10×/Ø 20 mm

OBL-1

- · Quadplex nosepiece
- Diopter adjustment: One-sided
- Overall dimensions W×D×H 395×200×380 mm
- Net weight approx. 7,7 kg
- Objective quality: Infinity E-Plan
- Objectives: $4 \times /10 \times /40 \times /100 \times$
- Illumination OBL 135:
 20 W Halogen (transmitted)
- Illumination OBL 137: 3 W LED (transmitted)

OBN-1

- Quintuple nosepiece
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 390×200×400 mm
- Net weight approx. 10 kg
- · Objective quality: Infinity Plan
- Objectives: 4×/10×/20×/40×/100×
- Illumination OBN 132:
 20 W Halogen (transmitted)
- Illumination OBN 135: 3 W LED (transmitted)

Model	Standard configuration (camera)				
	Included camera	Resolution camera	Interface	Sensor	Details microscope, camera
OBL 135C825 OBL 137C825	ODC 825	5 MP	USB 2.0 (6,8 - 55 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 18, 85
OBL 135C832 OBL 137C832	ODC 832	5 MP	USB 3.0 (14,2 - 101,2 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 18, 85
OBL 135T241 OBL 137T241	ODC 241	5 MP	WLAN, USB 2.0, HDMI, SD (15-30 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 18, 89
OBN 132C825 OBN 135C825	ODC 825	5 MP	USB 2.0 (6,8 - 55 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 22, 85
OBN 132C832 OBN 135C832	ODC 832	5 MP	USB 3.0 (14,2 - 101,2 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 22, 85
OBN 132T241 OBN 135T241	ODC 241	5 MP	WLAN, USB 2.0, HDMI, SD (15-30 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 22, 89



Pictograms



360° rotatable





Monocular Microscope

For the inspection with one eye



Binocular Microscope

For the inspection with both eyes



Trinocular Microscope

For the inspection with both eyes and the additional option for the connection of a camera



Abbe Condenser

With high numerical aperture for the concentration and the focusing of light



Halogen illumination

For pictures bright and rich in contrast



LED illumination

Cold, energy-saving and especially long-life illumination



Incident illumination

For non-transparent objects



Transmitting illumination

For transparent objects



Fluorescence illumination

For stereomicroscopes



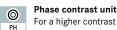
Fluorescence illumination

for compound microscopes USB 2.0 With 100W mercury lamp and filter



Fluorescence illumination for compound microscopes

With 3 W LED illumination and filter



Phase contrast unit



Darkfield condenser/unit

For a higher contrast due to indirect illumination



Polarising unit

To polarise the light



Infinity system

Infinity corrected optical system



Zoom magnification For stereomicroscopes

Auto-focus

For automatic control of the focus level



Parallel optical system

For stereomicroscopes, enables fatigue-proof working



Integrated scale

In the eyepiece



SD card

For data storage



USB 2.0 digital camera

For direct transmitting of the picture to a PC



USB 3.0 digital camera

For direct transmitting of the picture to a PC



WLAN data interface

For transmitting of the picture to a mobile display device



HDMI digital camera

For direct transmitting of the picture to a display



PC software

To transfer the measurements from the device to a PC



Automatic temperature compesation

For measurements between 10 °C and 30 °C



Protection against dust and water splashes

IPxx: The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989+A1:1999+A2:2013



Battery operation

Ready for battery operation. The battery type is specified for each device.



Battery operation rechargeable

Prepared for a rechargeable battery operation



Plug-in power supply

230V/50Hz in standard version for EU. On request GB, AUS or USA version.



Integrated power supply unit

Integrated in microscope. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.



Package shipment

The time required to manufacture the product internally is shown in days in the pictogram.

Abbreviations

Adapter for the connection of a C-Mount

Frames per second

camera to a trinocular microscope

LWD

N.A.

Long Working Distance

Numerical Aperture

SWF

Super Wide Field (Field number at least Ø 23 mm for 10× eyepiece)

W.D.

Working Distance

H(S)WF

FPS

High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)

SLR camera Single-Lens Reflex camera

WF

Wide Field (Field number up to Ø 22 mm for 10× eyepiece)

Your KERN specialist dealer: