Digital microscope sets KERN OBE-S

OBE-1 with camera

OBE-1 with tablet

Our all-round compound microscope as a comprehensive digital solution for schools, training and laboratories

Features

- Laboratory microscopes from the OBE 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

- Finite optical system
- Quadplex nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: One-sided
- Eyepiece: HWF 10×/⌀ 18 mm
- Objective quality: Achromatic
- Objectives OBE 124: 4×/10×/40×
- Objectives OBE 134: 4×/10×/40×/100×
- Illumination: 3 W LED (transmitted)
- Overall dimensions W×D×H 320×180×365 mm
- Net weight approx. 5,5 kg

Model	Standard configuration (camera)					
KERN	Included camera	Resolution camera	Interface	Sensor	Details microscope, camera	
OBE 124C825	ODC 825	5 MP	USB 2.0 (6,8 – 55 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 14, 86	
OBE 134C825						
OBE 124C832	ODC 832	5 MP	USB 3.0 (14,2 – 101,2 FPS)	CMOS 1/2,5"		
OBE 134C832						
OBE 124T241	ODC 241	5 MP	WiFi, USB 2.0, HDMI, SD (15 – 30 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 14, 90	
OBE 134T241						

360°
360° rotatable microscope head

MONO
Monocular Microscope
For the inspection with one eye

BINO
Binocular Microscope
For the inspection with both eyes

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

ABBE
Abbe Condenser
With high numerical aperture for the concentration and the focusing of light

HAL
Halogen illumination
For pictures bright and rich in contrast

LED
LED illumination
Cold, energy-saving and especially long-life illumination

IL
Incident illumination
For non-transparent objects

TL
Transmitting illumination
For transparent objects

FL
Fluorescence illumination
For stereomicroscopes

FL-HBO
Fluorescence illumination for compound microscopes
With 100 W mercury lamp and filter

FL-LED
Fluorescence illumination for compound microscopes
With 3 W LED illumination and filter

PH
Phase contrast unit
For a higher contrast

DF
Darkfield condenser/unit
For a higher contrast due to indirect illumination

POLAR
Polarising unit
To polarise the light

INFINITY
Infinity system
Infinity corrected optical system

ZOOM
Zoom magnification
For stereomicroscopes

AF
Auto-focus
For automatic control of the focus level

PARALLEL
Parallel optical system
For stereomicroscopes, enables fatigue-proof working

SCALE
Integrated scale
In the eyepiece

SD
SD card
For data storage

USB 2.0
USB 2.0 digital camera
For direct transmitting of the picture to a PC

USB 3.0
USB 3.0 digital camera
For direct transmitting of the picture to a PC

WIFI
WIFI data interface:
For transmitting of the picture to a mobile display device

HDMI
HDMI digital camera
For direct transmitting of the picture to a display device

SOFTWARE
PC software
To transfer the measurements from the device to a PC.

AUTO ATC
Automatic temperature compesation
For measurements between 10 °C and 30 °C

IP
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

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

RECHARGE
Battery operation rechargeable
Prepared for a rechargeable battery operation

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

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

1 DAY
Package shipment
The time required to manufacture the product internally is shown in days in the pictogram.

ABBREVIATIONS

C-Mount	Adapter for the connection of a camera to a trinocular microscope
FPS	Frames per second
H(S)WF	High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)
LWD	Long Working Distance
N.A.	Numerical Aperture
SLR camera	Single-Lens Reflex camera
SWF	Super Wide Field (Field number at least ⌀ 23 mm for 10× eyepiece)
W.D.	Working Distance
WF	Wide Field (Field number up to ⌀ 22 mm for 10× eyepiece)

WolfLabs

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct.
If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.