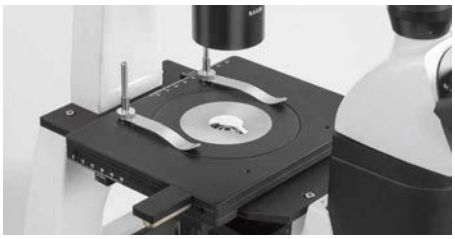
# Inverted microscope KERN OCL-2

Trinocular head



Stage

Phase contrast slide

Coaxial pinion drive for x/y

Coarse and fine height adjustment

**LAB LINE**

## The variable inverted model for the flexible user in vocational training and the laboratory

### *Features*

- The KERN OCL is a very easy to use, robust and stable inverted microscope for all common routine applications, producing impressive images.
- These trinocular microscopes are equipped with wide field eyepieces with a large field of view, diopter adjustment and infinity corrected plan achromatic objectives as standard.
- A nosepiece for up to 5 objectives, a large, mechanically adjusted stage and a phase contrast set are also provided as standard with the microscope.
- The Abbe condenser with its aperture diaphragm and the long 72 mm working distance, together with the fine, 0,001 mm scale focus, sets standards in this micro-scope class.
- The following optional accessories are available: A variety of eyepieces, objectives for a large working distance, a fixed stage and much more.
- One of the central features of this variable and simultaneously robust series of inverted microscopes is the stable and precisely adjustable mechanism.
- This model is availabe for both, right- and lefthanded persons.

### *Technical data*

- Eyepieces: HWF 10x20 mm
- Objectives: 10x / 20x / 40x und 20xPH
- Overall dimensions WxDxH 220x510x530 mm
- Net weight approx. 13 kg

**OCL 251**
- Right handed version

**OCL 252**
- Left handed version

Please find detailed information in the following charts.

STANDARD


OPTION


| Model<br><br>KERN | Standard configuration | | | |
|---|---|---|---|---|
| | Optical system | Tube | Illumination | |
| **OCL 251** | Infinity | Trinocular | 6V / 20W Halogen (transmitting) | |
| **OCL 252** | Infinity | Trinocular | 6V / 20W Halogen (transmitting) | |



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# Inverted microscope KERN OCL-2

| Model outfit | | | Model KERN | | Order number | |
|---|---|---|---|---|---|---|
| | | | OCL 251 | OCL 252 | | |
| **Eyepieces** | HWF 10x / Ø 20 mm | | ●● | ●● | OBB-A2403 | |
| | WF 16x / Ø 13 mm | | oo | oo | OBB-A2406 | |
| | HWF 10x / Ø 18 mm (reticule 0,1 mm) | | o | o | OBB-A2404 | |
| | HWF 10x / Ø 20 mm (reticule 0,1 mm) | | o | o | OBB-A2410 | |
| | HWF 10x / Ø 22 mm<br>(Only in combination with tube OBB-A2407 / OBB-A2408) | | oo | oo | OBB-A2409 | |
| **Infinity Plan achromatic objectives** (for long working distance) | 4x / 0,13 | | o | o | OBB-A2413 | |
| | 10x / 0,25 | | ● | ● | OBB-A2414 | |
| | 20x / 0,40 | | ● | ● | OBB-A2415 | |
| | 40x / 0,60 | | ● | ● | OBB-A2416 | |
| | 60x / 0,70 | | o | o | OBB-A2417 | |
| **Binocular tube** | · 30° inclined<br>· Interpupillary distance: 52 – 75 mm<br>· With diopter adjustment (one-sided) | | o | o | OBB-A2401 | |
| | · 30° inclined<br>· Interpupillary distance: 52 – 75 mm<br>· With diopter adjustment (one-sided)<br>(Only in combination with tube OBB-A2409) | | o | o | OBB-A2407 | |
| **Trinocular tube** | · 30° inclined<br>· Interpupillary distance: 52 – 75 mm<br>· Light distribution: 80:20<br>· With diopter adjustment (one-sided) | | ● | ● | OBB-A2402 | |
| | · 30° inclined<br>· Interpupillary distance: 52 – 75 mm<br>· Light distribution: 80:20<br>· With diopter adjustment (one-sided)<br>(Only in combination with tube OBB-A2409) | | o | o | OBB-A2408 | |
| **Nosepiece** | Quintuple | | ● | ● | | |
| **Mechanical stage** | · Stage size: WxD 180x155 mm,<br>· Travel: 80x50 mm<br>· Coaxial coarse and fine focusing knobs | Right handed v. | ● | | | |
| | | Left handed v. | | ● | | |
| | Drop specimen holder (Ø 110) | | ● | ● | OBB-A2425 | |
| | Specimen holder (Clip) | | ● | ● | OBB-A2426 | |
| **Fixed stage** | Stage size: WxD 240x180 mm | | o | o | OBB-A2424 | |
| | Drop specimen holder (Ø 110) | | o | o | OBB-A2425 | |
| **Condenser** | Abbe N.A. 0,3 (aperture diaphragm),<br>LWD 72 mm | | ● | ● | | |
| **Illumination** | 6V / 30W Halogen (transmitting) | | ● | ● | OBB-A2440 | |
| **Phase contrast unit** | Phase contrast slide | | ● | ● | OBB-A2432 | |
| | Infinity plan achromatic PH-objective 10x | | o | o | OBB-A2418 | |
| | Infinity plan achromatic PH-objective 20x | | ● | ● | OBB-A2419 | |
| | Infinity plan achromatic PH-objective 40x | | o | o | OBB-A2420 | |
| | Centering telescope | | ● | ● | OBB-A2405 | |
| **C-Mount** | 0,5x | | o | o | OBB-A2437 | |
| | 1x | | o | o | OBB-A2438 | |
| | 0,25x | | o | o | OBB-A2439 | |
| **Filter** | Filter holder | | ● | ● | OBB-A1357 | |
| | Blue (Ø 34 mm) | | ● | ● | OBB-A2434 | |
| | Green (Ø 34 mm) | | ● | ● | OBB-A2435 | |
| | Yellow (Ø 34 mm) | | ● | ● | OBB-A2436 | |

● = Standard configuration  o = Option



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# KERN Pictograms:


**360° rotatable microscope head**


**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**
With 100 W mercury lamp and filter


**Fluorescence illumination for compound microscopes**
With 3 W LED illumination and filter


**Phase contrast unit**
For a higher contrast


**Polarising unit**
To polarise the light


**Infinity system**
Infinity corrected optical system


**Zoom magnification**
For stereomicroscopes


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


**Integrated scale**
In the eyepiece


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


**Integrated USB 3.0 digital camera**
For direct transmitting of the picture 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 by the pictogram.


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


**Rechargeable battery pack**
Rechargeable set.


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


**Power supply**
Integrated in balance. 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.


**Warranty**
The warranty period is shown in the pictogram.

## Abbreviations

**C-Mount** Adapter for the connection of a camera to a trinocular microscope

**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 Kamera** Single-Lens Reflex camera

**SWF** Super Wide Field (Field number at least Ø 23 mm for 10x eyepiece)

**W.D.** Working Distance

**WF** Wide Field (Field number up to Ø 22 mm for 10x eyepiece)

# Your KERN specialist dealer: