



Side view

Educational Line

Stereo microscope with robust, ergonomic design,  
ideal for workshops, schools and training

Features

- With its integrated handle as well as its stable arm curved stand, the KERN OSE OSE-42 has been specially developed for schools and workshops
- The incident and transmitted illumination unit included as standard can be optionally enabled for the very best illumination of your sample. Mobile use is also no problem due to the integrated battery compartment
- Despite its low price it has very good optical characteristics, which enable you to have sharp images over a large field of view
- An turnable objective with predefined magnifications is available to make your working procedures quicker and more efficient

- The eyepieces are fixed in the eyepiece tube, to stop them getting damaged or lost
- A special feature of this adaptable and yet robust microscope series is the stable mechanism of the microscope stand which can be adjusted precisely. It will also impress you with its functionality and ergonomic design
- A large selection of eyepieces as well as various additional external illumination units are available as accessories

Scope of application

- Training, in vitro fertilisation, detection of parasites, zoology and botany, tissue preparation, section, quality control

Applications/Samples

- Samples with focus on three-dimensional impression (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- Optical system: Greenough optics
- Brightness adjustable
- Tube 45° inclined
- Interpupillary distance 55 – 75 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 200×180×300 mm
- Net weight approx. 2 kg

STANDARD

BINO

LED

IL

TL

BATT

230 V

1 DAY

| Model   | Standard configuration |                |                     |           |            |   |
|---------|------------------------|----------------|---------------------|-----------|------------|---|
|         | Tube                   | Eyepiece       | Field of view<br>mm | Objective | Stand      | Illumination                              |
| KERN    |                        |                |                     |           |            |   |
| OSE 421 | Binocular              | WF 10×/ø 20 mm | ø 20                | 2×/4×     | Arm curved | 1 W LED (incident); 1 W LED (transmitted) |

# Stereomicroscope KERN OSE-42

## Eyepiece

## Specifications – Objectives

|                  | Magnification       | 2×    | 4×    |
|------------------|---------------------|-------|-------|
| WF 5×            | Total magnification | 10×   | 20×   |
|                  | Field of view mm    | ∅ 10  | ∅ 5   |
| WF 10×           | Total magnification | 20×   | 40×   |
|                  | Field of view mm    | ∅ 10  | ∅ 5   |
| WF 15×           | Total magnification | 30×   | 60×   |
|                  | Field of view mm    | ∅ 7,5 | ∅ 3,7 |
| WF 20×           | Total magnification | 40×   | 80×   |
|                  | Field of view mm    | ∅ 6,5 | ∅ 3,2 |
| Working distance |                     | 57 mm | 57 mm |

## Model outfit

## Model KERN

## Order number

|                        |   | OSE 42 1 |           |
|------------------------|---|----------|-----------|
| Eyepieces<br>(30,5 mm) | WF 5×/∅ 16,2 mm   | ○ ○      | OZB-A4101 |
|                        | WF 10×/∅ 20 mm  | ✓ ✓      | OZB-A4102 |
|                        | WF 15×/∅ 15 mm  | ○ ○      | OZB-A4103 |
|                        | WF 20×/∅ 10 mm  | ○ ○      | OZB-A4104 |
|                        | WF 10×/∅ 20 mm (reticule 0,1 mm)                                  | ○        | OZB-A4151 |
| Stand                  | Arm curved, with 1 W LED illumination<br>(transmitted + incident) | ✓        |           |
| Stage plate            | Frosted glass/∅ 59,5 mm   | ✓        | OZB-A4815 |
|                        | Black-white/∅ 59,5 mm   | ✓        | OZB-A4816 |

✓ = Included with delivery

○ = Option