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## DIGITAL MICROSCOPE SETS



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           |
|--|-----------------|-------------------|---------------------------------------|-------------|--------------------------------------|
| <b>OBE 124C825</b><br><b>OBE 134C825</b> | ODC 825         | 5 MP              | USB 2.0 (6,8 - 55 FPS)                | CMOS 1/2,5" | KERN Optics catalogue<br>Page 16, 90 |
| <b>OBE 124C832</b><br><b>OBE 134C832</b> | ODC 832         | 5 MP              | USB 3.0 (14,2 - 101,2 FPS)            | CMOS 1/2,5" |                                      |
| <b>OBE 124T241</b><br><b>OBE 134T241</b> | ODC 241         | 5 MP              | WiFi, USB 2.0, HDMI, SD (15 - 30 FPS) | CMOS 1/2,5" | KERN Optics catalogue<br>Page 16, 94 |



OBL-1 with camera

OBL-1 with tablet

OBN-1 with camera

OBN-1 with tablet

## 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×/∅ 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×/10×/40×/100×
- 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        |
| <b>KERN</b>        |                                 |                   |                                       |             |                                   |
| <b>OBL 137C825</b> | ODC 825                         | 5 MP              | USB 2.0 (6,8 – 55 FPS)                | CMOS 1/2,5" | KERN Optics catalogue Page 16, 85 |
| <b>OBL 137C832</b> | ODC 832                         | 5 MP              | USB 3.0 (14,2 – 101,2 FPS)            | CMOS 1/2,5" | KERN Optics catalogue Page 16, 85 |
| <b>OBL 137T241</b> | ODC 241                         | 5 MP              | WiFi, USB 2.0, HDMI, SD (15 – 30 FPS) | CMOS 1/2,5" | KERN Optics catalogue Page 16, 89 |
| <b>OBN 132C825</b> |                                 |                   |                                       |             |                                   |
| <b>OBN 135C825</b> | ODC 825                         | 5 MP              | USB 2.0 (6,8 – 55 FPS)                | CMOS 1/2,5" | KERN Optics catalogue Page 18, 85 |
| <b>OBN 132C832</b> |                                 |                   |                                       |             |                                   |
| <b>OBN 135C832</b> | ODC 832                         | 5 MP              | USB 3.0 (14,2 – 101,2 FPS)            | CMOS 1/2,5" | KERN Optics catalogue Page 18, 85 |
| <b>OBN 132T241</b> |                                 |                   |                                       |             |                                   |
| <b>OBN 135T241</b> | ODC 241                         | 5 MP              | WiFi, USB 2.0, HDMI, SD (15 – 30 FPS) | CMOS 1/2,5" | KERN Optics catalogue Page 18, 89 |



OZL 464 with camera



OZL 466 with camera



OZL 468 with camera



OZL 464 with tablet



OZL 466 with tablet



OZL 468 with tablet

## The flexible, affordable all-rounder with zoom function as a digital solution for schools, training companies, inspection authorities and laboratories

### Features

- The flexible, cost-effective OZL-46 range is 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

- Optical system: Greenough optics
- Brightness adjustable (separate)
- Tube 45° inclined
- Magnification ratio: 6,4:1
- Light distribution 100:0
- Interpupillary distance 55 – 75 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 300×240×420 mm
- Net weight approx. 5 kg
- Eyepiece: HWF 10×/ø 20 mm
- Field of view: ø 28,6 – 4,4 mm
- Objective: 0,7× – 4,5×
- Stand OZL 464/466: Pillar style
- Stand OZL 468: Arm curved
- Illumination: 3 W LED (incident + transmitted)

| Model              | Standard configuration (camera) |                   |                                       |             | Details microscope, camera           |
|--------------------|---------------------------------|-------------------|---------------------------------------|-------------|--------------------------------------|
|                    | Included camera                 | Resolution camera | Interface                             | Sensor      |                                      |
| <b>KERN</b>        |                                 |                   |                                       |             |                                      |
| <b>OZL 464C825</b> |                                 |                   |                                       |             |                                      |
| <b>OZL 466C825</b> | ODC 825                         | 5 MP              | USB 2.0 (6,8 – 55 FPS)                | CMOS 1/2,5" | KERN Optics catalogue<br>Page 42, 85 |
| <b>OZL 468C825</b> |                                 |                   |                                       |             |                                      |
| <b>OZL 464C832</b> |                                 |                   |                                       |             |                                      |
| <b>OZL 466C832</b> | ODC 832                         | 5 MP              | USB 3.0 (14,2 – 101,2 FPS)            | CMOS 1/2,5" |                                      |
| <b>OZL 468C832</b> |                                 |                   |                                       |             |                                      |
| <b>OZL 464T241</b> |                                 |                   |                                       |             |                                      |
| <b>OZL 466T241</b> | ODC 241                         | 5 MP              | WiFi, USB 2.0, HDMI, SD (15 – 30 FPS) | CMOS 1/2,5" | KERN Optics catalogue<br>Page 42, 89 |
| <b>OZL 468T241</b> |                                 |                   |                                       |             |                                      |



OZM-5 with camera



OZP-5 with camera



OZP-5 with tablet

## First-class optics as well as strong illumination combined with a high level of flexibility and digital tools

### Features

- Stereomicroscopes from the OZM and OZP 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

- Optical system: Greenough optics
- Brightness adjustable (separate)
- Light distribution: 100:0
- Diopter adjustment: Both-sided
- Net weight approx. 5,5 kg
- Eyepiece: HSWF 10×/∅ 23 mm
- Stand: Pillar style
- Illumination: 3 W LED (incident + transmitted)

### OZM-5

- Tube 45° inclined
- Magnification ratio: 6,4:1
- Interpupillary distance 52 – 76 mm
- Overall dimensions W×D×H 330×285×440 mm
- Field of view: ∅ 32,8 – 5,1 mm
- Objective: 0,7× – 4,5×

### OZP-5

- Tube: 35° inclined
- Magnification ratio: 9,2:1
- Interpupillary distance 52 – 76 mm
- Overall dimensions W×D×H 330×285×470 mm
- Field of view: ∅ 38,3 – 4,2 mm
- Objective: 0,6× – 5,5×

### Model

Standard configuration (camera)

| KERN               | Included camera | Resolution camera | Interface                             | Sensor      | Details microscope, camera        |
|--------------------|-----------------|-------------------|---------------------------------------|-------------|-----------------------------------|
| <b>OZM 544C825</b> | ODC 825         | 5 MP              | USB 2.0 (6,8 – 55 FPS)                | CMOS 1/2,5" | KERN Optics catalogue Page 50, 85 |
| <b>OZM 544C832</b> | ODC 832         | 5 MP              | USB 3.0 (14,2 – 101,2 FPS)            | CMOS 1/2,5" | KERN Optics catalogue Page 50, 85 |
| <b>OZP 558C825</b> | ODC 825         | 5 MP              | USB 2.0 (6,8 – 55 FPS)                | CMOS 1/2,5" | KERN Optics catalogue Page 52, 85 |
| <b>OZP 558C832</b> | ODC 832         | 5 MP              | USB 3.0 (14,2 – 101,2 FPS)            | CMOS 1/2,5" | KERN Optics catalogue Page 52, 85 |
| <b>OZP 558T241</b> | ODC 241         | 5 MP              | WiFi, USB 2.0, HDMI, SD (15 – 30 FPS) | CMOS 1/2,5" | KERN Optics catalogue Page 52, 89 |