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DIGITAL MICROSCOPE SETS





OBE-1 + ODC 825/832



OBE-1 + ODC 241

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

Features

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

Technical data

- Finite optical system DIN
- 4-fold lens revolving unit
- Butterfly 30° angled
- Diopter adjustment, one-sided
- Eyepiece: HWF 10x/Ø 18 mm
- Objective quality: Achromatic
- Objectives OBE 124: 4x/10x/40x
- Objectives OBE 134: 4x/10x/40x/100x
- Illumination: 3 W LED (transmitted)
- Overall dimensions W×D×H 360×150×390 mm
- Net weight approx. 6 kg

For detailed information on the individual components, see the relevant product description of the individual item

Model	Included camera	Camera Resolution	Camera Interface	Camera Framerate	Camera Sensor
KERN					
OBE 124C825 OBE 134C825	ODC 825	5,1 MP	USB 2.0	6,8 - 55 fps	CMOS 1/2,5"
OBE 124C832 OBE 134C832	ODC 832	5,1 MP	USB 3.0	14,2 - 101,2 fps	CMOS 1/2,5"
OBE 124T241 OBE 134T241	ODC 241	5 MP	WiFi, USB 2.0, HDMI, MicroSD card slot	30 fps	Sony CMOS 1/2,8"



OBL-1 + ODC 825/832



OBL-1 + ODC 241

The digital laboratory assistant with infinity optical unit and fixed, pre-centred Koehler illumination

Features

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

Technical data

- Infinity optical system
- 4-fold lens revolving unit
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment, one-sided
- Eyepiece: HWF 10x/Ø 20 mm
- Objective quality: Infinity E-Plan
- Objectives: 4x/10x/40x/100x
- Illumination: 3 W LED (transmitted)
- Overall dimensions W×D×H: 394×185×450 mm
- Net weight approx. 8 kg

For detailed information on the individual components, see the relevant product description of the individual item

Model	Included camera	Camera Resolution	Camera Interface	Camera Framerate	Camera Sensor
KERN					
OBL 137C825	ODC 825	5,1 MP	USB 2.0	6,8 - 55 fps	CMOS 1/2,5"
OBL 137C832	ODC 832	5,1 MP	USB 3.0	14,2 - 101,2 fps	CMOS 1/2,5"
OBL 137T241	ODC 241	5 MP	WiFi, USB 2.0, HDMI, MicroSD card slot	30 fps	Sony CMOS 1/2,8"



OBN 135 + ODC 825/832

OBN 135 + ODC 251

OBN 139 + ODC 251

OCM 162 + ODC 251

The digital laboratory assistant with infinity optical unit and professional Koehler illumination

Features

- The KERN ODC 251 microscope tablet camera is now also available as a complete digital solution in a practical set with microscope and matching C-mount adapter
- The intuitive KERN ODC 251 microscope tablet camera combines an Android tablet with a 10.5" HD display and a high-resolution 8 MP 4K camera
- The mounted C-mount camera is available in different versions and can be used anywhere
- The sets include either a KERN OBN 135 transmitted light microscope, a KERN OBN 159 phase contrast microscope or a KERN OCM 162 inverted microscope
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery

Technical data

- Infinity optical system
- Quintuple nosepiece
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 390×200×470 mm
- Net weight approx. 11 kg
- Eyepiece: HWF 10x/Ø 20 mm
- Objective quality: Infinity Plan

OBN-1

- Siedentopf 30° inclined/360° rotatable
- Objectives : 4x/10x/20x/40x/100x
- Illumination: 3 W LED (transmitted)

OCM-1

- Siedentopf 30° inclined
- Objectives: 10x/20x/40x
- Illumination: 5 W LED (transmitted)

ODC 251

- 10,5" LCD-Touchscreen
- Screen resolution: 1920×1280 pixels
- CPU: Quad Core Cortex-A17; 1,8 GHz
- Measuring software (pre-installed)

For detailed information on the individual components, see the relevant product description of the individual item

Model	Included camera	Camera Resolution	Camera Interface	Camera Framerate	Camera Sensor
KERN					
OBN 135C825	ODC 825	5,1 MP	USB 2.0	6,8 - 55 fps	CMOS 1/2,5"
OBN 135C832	ODC 832	5,1 MP	USB 3.0	14,2 - 101,2 fps	CMOS 1/2,5"
OBN 135T251 <small>NEW</small>	ODC 251	8 MP 4 K	Ethernet, Bluetooth, WiFi, USB 2.0, USB 3.0, HDMI	30 fps	CMOS 1/1,8"
OBN 159T251 <small>NEW</small>					
OCM 162T251 <small>NEW</small>					

NEW New model



OBN 142C861



OBN 142T251

Fluorescence digital set: high-resolution image quality for complex analyses

Features

- The KERN OBN 142 fluorescence microscope is now also available as a complete digital solution in a practical set with camera and matching C-mount adapter. It combines high-quality optics with a stable design and 3 W LED transmitted illumination and 5 W LED epifluorescence incident illumination for excellent image quality
- The sets include either a KERN ODC 861 20 MP fluorescence camera or a KERN ODC 251 tablet microscope camera, see table for details
- The high-resolution KERN ODC 861 20 MP fluorescence camera with cooling enables razor-sharp and low-noise images
- The intuitive KERN ODC 251 microscope tablet camera combines an Android tablet with a 10.5" HD display and a high-resolution 8 MP 4K camera
- The C-mount adapter provides the right connection between microscope and camera, enabling stable, high-resolution image transmission

Technical data

OBN 142

- Quintuple nosepiece
- Infinity optical system
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment, both-sided
- Eyepiece: HWF 10x/Ø 20 mm
- Overall dimensions W×D×H 390×235×620 mm
- Net weight approx. 11 kg

ODC 861

- 20 MP fluorescence camera with Peltier cooling
- Maximum resolution 5440×3648 Pixel
- Microscope software VIS Pro, see *internet*

ODC 251

- 10,5" LCD-Touchscreen
- Screen resolution: pixels 1920×1280
- CPU: Quad Core Cortex-A17; 1,8 GHz
- Measuring software (pre-installed)

For detailed information on the individual components, see the relevant product description of the individual item

Model	Included camera	Camera Resolution	Camera Interface	Camera Framerate	Camera Sensor
KERN OBN 142C861	ODC 861	20 MP	USB 3.0	5 - 30 fps	Sony CMOS 1"
OBN 142T251	ODC 251	8 MP 4 K	Ethernet, Bluetooth, WiFi, USB 2.0, USB 3.0, HDMI	30 fps	CMOS 1/1,8"

New model



OKO 178C832



OKO 178T251

Digital set with metallurgical microscope, camera and C-mount adapter

Features

- The KERN OKO 178 metallurgical microscope is now also available as a complete digital solution in a practical set with the KERN ODC 832 C-mount camera or the KERN ODC 251 tablet microscope camera and matching C-mount adapter
- The KERN OKO 178 is a professional and versatile metallurgical microscope for testing metals and analysing surfaces
- The KERN ODC 832 5.1 MP microscope camera with CMOS technology delivers clear and fast images and is also suitable for complex applications
- The intuitive KERN ODC 251 microscope tablet camera combines an Android tablet with a 10.5" HD display and a high-resolution 8 MP 4K camera

Technical data

OKO 178

- Infinity optical system
- Quintuple nosepiece
- Diopter adjustment, both-sided
- Siedentopf 30° inclined/360° rotatable
- Overall dimensions W×D×H 390×235×620 mm
- Net weight approx. 11 kg

ODC 832

- Exposure method: Rolling Shutter
- Maximum resolution 2592×1944 Pixel
- Microscope software VIS Pro, see *internet*

ODC 251

- 10,5" LCD-Touchscreen
- Screen resolution: pixels 1920×1280
- CPU: Quad Core Cortex-A17; 1,8 GHz
- Measuring software (pre-installed)

For detailed information on the individual components, see the relevant product description of the individual item

Model	Included camera	Camera Resolution	Camera Interface	Camera Framerate	Camera Sensor
KERN OKO 178C832 <small>NEW</small>	ODC 832	5,1 MP	USB 3.0	14,2 - 101,2 fps	Aptina CMOS 1/2,5"
OKO 178T251 <small>NEW</small>	ODC 251	8 MP 4 K	Ethernet, Bluetooth, WiFi, USB 2.0, USB 3.0, HDMI	30 fps	CMOS 1/1,8"

NEW New model



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 also available to you as a comprehensive digital solution for your live investigations. Optionally available with an adapted 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
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery

Technical data

- Optical system: Greenough optics
- Tube 45° inclined
- Magnification ratio 6,4:1
- Beam path distribution: 0:100
- Interpupillary distance: 55 mm – 75 mm
- Diopter adjustment, both-sided
- Eyepiece: HWF 10x/Ø 20 mm
- Field of view: Ø 28,6 mm – 4,4 mm
- Objective: 0,7x – 4,5x
- OZL 464/466: Stand: pillar
- OZL 468: Stand: mechanical
- Illumination: 3 W-LED (reflected light and transmitted light)
- Brightness adjustable (separate)
- Overall dimensions W×D×H 300×240×490 mm
- Net weight approx. 5,0 kg

For detailed information on the individual components, see the relevant product description of the individual item

Model	Included camera	Camera Resolution	Camera Interface	Camera Framerate	Camera Sensor
KERN					
OZL 464C825					
OZL 466C825	ODC 825	5,1 MP	USB 2.0	6,8 - 55 fps	CMOS 1/2,5"
OZL 468C825					
OZL 464C832					
OZL 466C832	ODC 832	5,1 MP	USB 3.0	14,2 - 101,2 fps	CMOS 1/2,5"
OZL 468C832					
OZL 464T241					
OZL 466T241	ODC 241	5 MP	WiFi, USB 2.0, HDMI, MicroSD card slot	30 fps	Sony CMOS 1/2,8"
OZL 468T241					



OZM + ODC 825/832



OZP + ODC 825/832



OZP + ODC 241

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

Features

- The stereo microscopes of the OZM- and OZP range are 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
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery

Technical data

- Optical system: Greenough optics
- Beam path distribution: 0:100
- Interpupillary distance: 52 mm – 76 mm
- Diopter adjustment, both-sided
- Net weight approx. 6 kg
- Eyepiece: HSWF 10x/Ø 23 mm
- Stand: pillar
- Illumination: 3 W-LED (reflected light and transmitted light), Brightness adjustable (separate)

OZM 544

- Tube 45° inclined
- Magnification ratio 6,4:1
- Field of view: Ø 32,8 mm – 5,1 mm
- Objective: 0,7x – 4,5x
- Overall dimensions W×D×H 330×285×510 mm

OZP 558

- Tube 35° inclined
- Magnification ratio 9,2:1
- Field of view: Ø 38,3 mm – 4,2 mm
- Objective: 0,6x – 5,5x
- Overall dimensions W×D×H 330×285×540 mm

For detailed information on the individual components, see the relevant product description of the individual item

Model	Included camera	Camera Resolution	Camera Interface	Camera Framerate	Camera Sensor
KERN					
OZM 544C825	ODC 825	5,1 MP	USB 2.0	6,8 - 55 fps	CMOS 1/2,5"
OZM 544C832	ODC 832	5,1 MP	USB 3.0	14,2 - 101,2 fps	CMOS 1/2,5"
OZP 558C825	ODC 825	5,1 MP	USB 2.0	6,8 - 55 fps	CMOS 1/2,5"
OZP 558C832	ODC 832	5,1 MP	USB 3.0	14,2 - 101,2 fps	CMOS 1/2,5"
OZP 558T241	ODC 241	5 MP	WiFi, USB 2.0, HDMI, MicroSD card slot	30 fps	Sony CMOS 1/2,8"