

Product brochure

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# KERN OBN 135C832

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

ENGLISH



## CONTACT

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## FEATURES

- Laboratory microscopes from the OBN series are also available to you as a comprehensive digital solution with an mounted C-mount camera for your live investigations. Naturally, the appropriate C-mount adapter is included with the delivery
- 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

### OBN 135

- The OBN- series stands out because of its unbeatable and consistently high quality and its ergonomic design. The range of modular components means that the OBN series can be individually customised for the professional user.
- Strong and continuously dimmable 3W-LED illumination
- This series has a professional Koehler illumination unit with an adjustable field diaphragm as well as a height-adjustable 1,25 Abbe condenser which can be centred and which has an adjustable aperture diaphragm.
- The extremely large mechanical stage with ergonomic, coaxial coarse and fine focusing knob on both sides enables you to adjust and focus your sample rapidly and accurately

### ODC 832

- Through the proven CMOS technology, in connection with the USB 3.0 the images are shown quickly and clearly
- These cameras are also ideal for more demanding applications, such as, for example, darkfield, phase contrast and for fluorescence applications
- Your daily work is made significantly easier with the very best synchronisation, a high frame rate as well as stable image performance when used in conjunction with our free PC software, VIS 2.0 PRO or VIS 2.0 LITE
- The power supply is through the USB cable, which means that no additional power supply is required
- As well as the camera, the delivery includes our multi-lingual KERN Microscope VIS Basic KERN OXM 901, a USB cable (Length: 2000 mm) various eyepiece adapters and an object micrometer to calibrate the software

## MAIN SCOPE OF APPLICATIONS

- haematology, urology, gynaecology
- dermatology
- pathology
- microbiology and parasitology, immunology
- sewage treatment plants
- oncology, entomology
- veterinary practices
- water analysis
- breweries
- Inpatient facilities, Laboratory medical facilities, Health authorities
- Training centres, Universities

## TECHNICAL DATA

- Optical system: Infinity
- -fold objective revolving unit
- Siedentopf 30° inclined/ 360° rotatable
- Diopter adjustment, both-sided
- Eyepiece: HWF 10x/Ø 20 mm
- Objective quality:
- Objectives: 4×, 10×, 20×, 40×, 100×
- Illumination: 3 W-LED (transmitted light)
- Overall dimensions W×D×H 390×200×470 mm
- Net weight approx. 11 kg

## PICTOGRAMS

Standard



Option



## ACCESSORIES

| Model     | Description                                             |
|-----------|---------------------------------------------------------|
| OBB-A1104 | Condenser OBB-A1104 (Abbe   0,9 / 0,13   centerable)    |
| OBB-A1125 | Microscope tube OBB-A1125 (Binocular, Siedentopf, 30°)  |
| OBB-A1153 | 100 W HBO Fluorescent Unit (B / G) OBB-A1153            |
| OBB-A1155 | 100 W HBO Fluoreszenzeinheit (B / G / UV / U) OBB-A1155 |
| OBB-A1156 | 5 W LED Fluoreszenzeinheit (B / G) OBB-A1156            |
| OBB-A1165 | Yellow filter OBB-A1165                                 |
| OBB-A1170 | Blue filter OBB-A1170                                   |
| OBB-A1183 | Grey filter OBB-A1183                                   |
| OBB-A1188 | Green filter OBB-A1188                                  |
| OBB-A1212 | PH single unit 100× OBB-A1212                           |
| OBB-A1214 | PH single unit 10× OBB-A1214                            |
| OBB-A1216 | PH single unit 20× OBB-A1216                            |
| OBB-A1218 | PH single unit 40× OBB-A1218                            |
| OBB-A1237 | PH complete unit 10×/20×/40×/100× OBB-A1237             |

| Model     | Description                                                                          |
|-----------|--------------------------------------------------------------------------------------|
| OBB-A1270 | Infinity E-plan objective, plan 60x /0,8 W.D. (0,33 mm) (sprung) OBB-A1270           |
| OBB-A1283 | Polarisation unit analyser and polariser OBB-A1283                                   |
| OBB-A1351 | Eyepiece OBB-A1351 (Ø 23,2 mm   WF 10x   Ø 20 mm)                                    |
| OBB-A1352 | Eyepiece OBB-A1352 (Ø 23,2 mm   WF 10x   Ø 20 mm   with scale 0,1 mm)                |
| OBB-A1354 | Eyepiece OBB-A1354 (Ø 23,2 mm   WF 16x   Ø 13 mm)                                    |
| OBB-A1359 | Microscope tube OBB-A1359 (Binocular, Butterfly, 30°)                                |
| OBB-A1388 | Protective dust cover OBB-A1388 (600×650 mm)                                         |
| OBB-A1390 | Infinity PH-Plan-objective 10x OBB-A1390                                             |
| OBB-A1391 | Infinity PH-Plan-objective 20x OBB-A1391                                             |
| OBB-A1392 | Infinity PH-Plan-objective 40x OBB-A1392                                             |
| OBB-A1393 | Infinity PH-Plan-objective 100x OBB-A1393                                            |
| OBB-A1394 | PH condenser and PH slider 10× OBB-A1394                                             |
| OBB-A1395 | PH condenser and PH slider 20× OBB-A1395                                             |
| OBB-A1396 | PH condenser and PH slider 40× OBB-A1396                                             |
| OBB-A1397 | PH condenser and PH slider 100× OBB-A1397                                            |
| OBB-A1421 | Darkfield Condenser OBB-A1421 (Dark-field condenser   0,85-0,91   centerable)        |
| OBB-A1437 | Infinity E-plan objective, plan 100x /1,15 W.D. (0,18 mm) (water) (sprung) OBB-A1437 |
| OBB-A1448 | Eyepiece OBB-A1448 (Ø 23,2 mm   HWF 10x   Ø 20 mm)                                   |
| OBB-A1451 | PH Condenser OBB-A1451                                                               |
| OBB-A1452 | PH slider 10× OBB-A1452                                                              |
| OBB-A1453 | PH slider 20× OBB-A1453                                                              |
| OBB-A1454 | PH slider 40× OBB-A1454                                                              |
| OBB-A1455 | PH slider 100× OBB-A1455                                                             |
| OBB-A1514 | C-Mount camera adapter OBB-A1514 (1x)                                                |
| OBB-A1515 | C-Mount camera adapter OBB-A1515 (0,5x)                                              |
| OBB-A1538 | Dark field condenser (oil) OBB-A1538 (Dark-field condenser   1,3   centerable)       |
| OBB-A1590 | Microscope Camera Adapter OBB-A1590 (0,75x)                                          |
| OBB-A1617 | Eyepiece OBB-A1617 (Ø 23,2 mm   HWF 10x   Ø 20 mm   with scale 0,1 mm)               |
| OBB-A1618 | Eyepiece OBB-A1618 (Ø 23,2 mm   HWF 10x   Ø 20 mm   with scale 0,1 mm)               |
| OBB-A1654 | Fluorescence Unit OBB-A1654                                                          |
| OBB-A1655 | Infinity planachromatic objective 2x /0,06 W.D. (7,2 mm) OBB-A1655                   |

| Model     | Description                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------|
| OCS-A1101 | Cleaning liquid OCS-A1101                                                                                   |
| OCS 901   | Cleaning set for microscopes OCS 901                                                                        |
| ODC-A2404 | Calibration slide ODC-A2404                                                                                 |
| ODC-A8102 | Eyepiece adapter for microscope cameras ODC-A8102 (Ø 23,2 – Ø 30 mm)                                        |
| ODC-A8103 | Eyepiece adapter for microscope cameras ODC-A8103 (Ø 23,2 – Ø 30,5 mm)                                      |
| ODC-A8105 | Eyepiece adapter for microscope cameras ODC-A8105 (0,5× / 23,2 mm)                                          |
| ODC 241   | Tablet microscope camera ODC 241 (5 MP, WiFi, USB 2.0, MicroSD, Wireless data transfer, HDMI Micro)         |
| ODC 251   | Tablet microscope camera ODC 251 (8 MP 4 K, Ethernet, WiFi, USB 2.0, USB 3.0, HDMI, Wireless data transfer) |
| ODC 825   | Microscope camera ODC 825 (5,1 MP, USB 2.0)                                                                 |
| ODC 832   | Microscope camera ODC 832 (5,1 MP, USB 3.0)                                                                 |
| ODC 841   | Microscope camera ODC 841 (Sony CMOS, 1", USB 3.0)                                                          |
| ODC 854   | Microscope camera ODC 854 (8 MP 4 K, USB 2.0, USB 3.0, HDMI)                                                |
| YKA-02    | Travel adapter YKA-02                                                                                       |

## SOFTWARE

| Model   | Description                                              |
|---------|----------------------------------------------------------|
| OXM 902 | KERN microscope software OXM 902 Microscope VIS 2.0 PRO  |
| OXM 903 | KERN microscope software OXM 903 Microscope VIS 2.0 LITE |

## KERN Pictogram Overview

|                                                                                    |                                                                                                                   |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
|    | 360° rotatable microscope head                                                                                    |
|    | 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                      |
|    | LED illumination: Cold, energy saving and especially long-life illumination                                       |
|    | Data Interface USB: For connection to printers, PCs or other peripheral devices                                   |
|    | PC Software: to transfer the measurements from the device to a PC                                                 |
|    | Plug-in power supply: 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available       |
|    | Package shipment by courier service: The duration of internal product provision is one day                        |
|    | Fluorescent illumination: for incident light microscope                                                           |
|    | Darkfield condenser/unit: For a higher contrast due to indirect illumination                                      |
|   | Polarising unit: To polarise the light                                                                            |
|  | Length measurement: Integrated scale in the eyepiece                                                              |