PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

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KERN OBN 135T241

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

ENGLISH

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FEATURES

- The laboratory microscopes from the OBN series are also available to you as a comprehensive digital solution with an mounted tablet camera for your live investigations. 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
- 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 241

- As well as a live transfer of theimage to the Android tablet, the integrated 5-MP cameraalso means that images and videos can becreated for the documentation.Simple measuring functions, such as, for example, functionsfor measuring distance, surfaces andangles as well as a manual counting function arealso available
- Automatic white balance and automatic contrast adjustment can be performed quickly and easily, which enables efficient working procedures
- A range of additional functions are provided through the integrated interfaces, such as, for example
  - Data storage on a USB stick or SD card
  - Connection to a USB mouse
  - Transfer of the live image to an external screen using HDMI
- The delivery includes the tablet camera with pre-installed software as well as the power pack

MAIN SCOPE OF APPLICATIONS

- sewage treatment plants
- entomology
- water analysis
- breweries
- Training centres
- Universities

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TECHNICAL DATA

- Optical system: Infinity
- 5-fold objective revolving unit
- Siedentopf 30° inclined/ 360° rotatable
- Diopter adjustment, both-sided
- Eyepiece: HWF 10x/Ø 20 mm
- Objective quality: Infinity Plan
- Objectives: 4×, 10×, 20×, 40×, 100×
- Illumination: 3 W-LED (transmitted light)
- Overall dimensions W×D×H 390×235×620 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 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

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
	For data storage on a microSD card
	For data storage on a SD card
	Data Interface USB: For connection to printers, PCs or other peripheral devices
	Data interface WiFi: For data transfer to printers, PCs or other peripheral devices
	HDMI digital camera: For direct transmitting of the picture to a display device
	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

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