PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

31.10.2026

KERN OBN 159

Professionalism and versatility united in one microscope – with Koehler illumination for demanding applications

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FEATURES

- 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
- Pre-configured phase contrast microscope, which, through the combination of a professional quintuple condenser wheel, phase contrast condenser and Infinity Plan phase contrast objectives makes it a high-quality, fully-equipped microscope for all applications related to this contrasting method
- 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
- A wide variety of modular systems, such as, for example, a swing-out condenser, various eyepieces, objectives, colour filters, phase contrast units, a darkfield condenser, a simple polarising unit, a Butterfly Tube, through to complete fluorescence units are available to you as accessories
- This centring eyepiece for adjusting the phase contrast, a protective dust cover, eye cups as well as multi-lingual user instructions are included in the scope of delivery

MAIN SCOPE OF APPLICATIONS

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

APPLICATIONS AND SAMPLES

- Translucent, thin, low-contrast, challenging samples (e.g. bacteria, animal or plant tissue structures, or cells)

TECHNICAL DATA

- Infinity optical system
- Quintuple nosepiece
- Siedentopf 30° inclined/ 360° rotatable
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 390×200×400 mm
- Net weight approx. 10 kg

PLEASE NOTE FOR YOUR ORDER

- A C-mount adapter is required to connect a camera (see accessories)

PICTOGRAMS

Standard



Option



MODEL OVERVIEW

Model	Tube	Eyepiece	Objective quality	Objectives	Illumination (transmitted)
OBN 159	Trinocular	HWF 10x/ Ø 20 mm	Infinity Plan	4× / PH 10× / PH 20× / PH 40× / PH 100×	3 W-LED

ACCESSORIES

Model	Description
OBB-A1102	Condenser OBB-A1102 (Abbe | 1,25 | centerable)
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

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Model	Description
OBB-A1237	PH complete unit 10×/20×/40×/100× OBB-A1237
OBB-A1240	Infinity planachromatic objective 100x /1,25 W.D., (0,19 mm) (oil) (sprung) OBB-A1240
OBB-A1243	Infinity planachromatic objective 10x /0,25 W.D. (4,64 mm) OBB-A1243
OBB-A1250	Infinity planachromatic objective 20x /0,45 W.D., (2,41 mm) (sprung) OBB-A1250
OBB-A1257	Infinity planachromatic objective 40x /0,65 W.D. (0,65 mm) OBB-A1257
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-A1354	Eyepiece OBB-A1354 (Ø 23,2 mm | WF 16x | Ø 13 mm)
OBB-A1359	Microscope tube OBB-A1359 (Binocular, Butterfly, 30°)
OBB-A1382	Microscope tube OBB-A1382 (Trinocular, Butterfly, 30°)
OBB-A1388	Protective dust cover OBB-A1388 (600×650 mm)
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-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
OCS-A1101	Cleaning liquid OCS-A1101
OCS 901	Cleaning set for microscopes OCS 901
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)

Model	Description
ODC 854	Microscope camera ODC 854 (8 MP 4 K, USB 2.0, USB 3.0, HDMI)

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
	Phase contrast unit: For a higher contrast
	Infinity system: Infinity corrected optical system
	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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