PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

31.10.2026

KERN OBN 142

The fluorescence microscope for the professional user

ENGLISH



CONTACT

KERN & SOHN GmbH
Ziegelei 1
72336 Balingen
Germany

+49 7433 9933-0
info@kern-sohn.com
www.kern-sohn.com





ENGLISH

FEATURES

- The fluorescence microscope in the OBN-14 series is based on the usual high quality and versatility of the OBN series. The outstanding, stable design in combination with high-quality optics set the standard in fluorescence microscopy in this class
- 3 W LED transmitted illumination unit and 5 W LED Epi fluorescence incident illumination unit
- 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
- As standard, the filter wheel which has up to 6 fittings is fitted with a B/G/UV/V fluorescence filter
- A large selection of eyepieces, objectives, colour filters, darkfield condensers as well as a Butterfly Tube, polarising and phase contrast units can easily be integrated thanks to the modular construction system
- The centring objective for adjusting the fluorescence, a protective dust cover, eye cups as well as multi-lingual user instructions are included in the scope of delivery.

MAIN SCOPE OF APPLICATIONS

- sewage treatment plants
- entomology
- water analysis
- breweries

APPLICATIONS AND SAMPLES

- Specially for translucent, thin, low-contrast, challenging samples (e.g. Immunofluorescence, FISH, DAPI staining, etc.)

TECHNICAL DATA

- Optical system: Infinity
- Siedentopf 30° inclined/ 360° rotatable
- 5-fold objective revolving unit
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 530×220×490 mm
- Net weight approx. 13 kg

PLEASE NOTE FOR YOUR ORDER

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

PICTOGRAMS

Standard



Option



ACCESSORIES

Model	Description
OBB-A1170	Blue filter OBB-A1170
OBB-A1283	Polarisation unit analyser and polariser OBB-A1283
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-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-A1634	Objective Infinity Plan Semi Apochromatic 10x OBB-A1634
OBB-A1635	Objective Infinity Plan Semi Apochromatic 20x OBB-A1635
OBB-A1636	Objective Infinity Plan Semi Apochromatic 40x OBB-A1636

Model	Description
OBB-A1637	Objective Infinity Plan Semi Apochromatic 100x OBB-A1637
OBB-A1655	Infinity planachromatic objective 2x /0,06 W.D. (7,2 mm) OBB-A1655
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)
ODC 854	Microscope camera ODC 854 (8 MP 4 K, USB 2.0, USB 3.0, HDMI)
ODC 861	Camera for fluorescence microscopes (cooling) ODC 861 (Sony CMOS, 1", USB 3.0)
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
	Fluorescent illumination: for incident light microscope
	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
	Phase contrast unit: For a higher contrast
	Darkfield condenser/unit: For a higher contrast due to indirect illumination
	Polarising unit: To polarise the light
	Length measurement: Integrated scale in the eyepiece

ENGLISH