PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

31.10.2026

KERN OBN 142C861

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

ENGLISH



CONTACT

KERN & SOHN GmbH
Ziegelei 1
72336 Balingen
Germany

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



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

OBN 142

- The fluorescence microscope in the OBN 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

ODC 861

- The ODC 861 camera with Peltier cooling technology has been specially designed for fluorescent applications. It is able to significantly compensate for image noise associated with weak lighting. Due to its high resolution and light-sensitive Sony CMOS colour sensor it proves first-class images. The practical, sturdy storage box serves as protection and for transportation of this premium camera
- Realtime images can be transferred directly to the free PC software VIS 2.0 PRO or VIS 2.0 LITE via one of the integrated USB ports (USB 3.0 and USB 2.0)
- Power supply is from an external 12 V power unit
- Black balance possible

MAIN SCOPE OF APPLICATIONS

- sewage treatment plants
- entomology
- water analysis
- breweries

PICTOGRAMS

Standard



Option



ACCESSORIES

Model	Description
822-903	Power cord (UK) 822-903
MLB-A07	Power cord (EURO) MLB-A07
MLB-A09	Power cord (US) MLB-A09
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
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-A1101	Cleaning liquid OCS-A1101
OCS 901	Cleaning set for microscopes OCS 901
ODC-A2404	Calibration slide ODC-A2404
ODC-A8108	Eyepiece adapter for microscope cameras ODC-A8108
ODC 241	Tablet microscope camera ODC 241 (5 MP, WiFi, USB 2.0, MicroSD, Wireless data transfer, HDMI Micro)

Model	Description
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
YKK-01	Power cord (CH) YKK-01

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
	Fluorescent illumination: for incident light microscope
	Infinity system: Infinity corrected optical system
	Data Interface USB: For connection to printers, PCs or other peripheral devices
	Data interface Bluetooth: For connection to printers, PCs or other peripheral devices
	Data interface WiFi: For data transfer to printers, PCs or other peripheral devices
	Network interface: For connecting the measuring device to an Ethernet network
	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
	Integrated power supply unit: Integrated in device. 230 V/50 Hz standard EU. More standards e.g. GB, USA or AUS on request
	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