PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

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KERN OBL 137T241

The digital laboratory assistant with infinity optical unit and fixed, pre-centred Koehler illumination

ENGLISH



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FEATURES

- The laboratory microscopes from the OBL 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

OBL 137

- The OBL series stands out through its infinity optical unit and is therefore ideally suited for all demanding transmitted illumination applications. The robust and ergonomic stand base guarantees safe and comfortable working
- Strong and continuously dimmable 3W-LED illumination
- The fixed, pre-centred and focusable 1,25 Abbe condenser with aperture diaphragm and field diaphragm gives you a simplified Koehler illumination, without having to move the centre.
- The large mechanical stage and its specimen holder holds up to two samples at the same time and is quick and easy to focus using a coaxial coarse and fine focusing knob on both sides

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
- 4-fold objective revolving unit
- Butterfly 30° inclined/ 360° rotatable
- Diopter adjustment, one-sided
- Eyepiece: HWF 10x/Ø 20 mm
- Objective quality: Infinity E-Plan
- Objectives: 4×, 10×, 40×, 100×
- Illumination: 3 W-LED (transmitted light)
- Overall dimensions W×D×H: 394×235×600 mm
- Net weight approx. 8 kg

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-A1153	100 W HBO Fluorescent Unit (B / G) OBB-A1153
OBB-A1157	5 W LED Fluoreszenzeinheit (B / G) OBB-A1157
OBB-A1165	Yellow filter OBB-A1165
OBB-A1183	Grey filter OBB-A1183
OBB-A1188	Green filter OBB-A1188
OBB-A1213	PH single unit 100× OBB-A1213
OBB-A1215	PH single unit 10× OBB-A1215
OBB-A1217	PH single unit 20× OBB-A1217
OBB-A1219	PH single unit 40× OBB-A1219
OBB-A1250	Infinity planachromatic objective 20x /0,45 W.D., (2,41 mm) (sprung) OBB-A1250
OBB-A1270	Infinity E-plan objective, plan 60x /0,8 W.D. (0,33 mm) (sprung) OBB-A1270

Model	Description
OBB-A1277	Polarisation unit OBB-A1277
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-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-A1398	PH Condenser OBB-A1398
OBB-A1399	PH slider 10× OBB-A1399
OBB-A1400	PH slider 20× OBB-A1400
OBB-A1401	PH slider 40× OBB-A1401
OBB-A1402	PH slider 100× OBB-A1402
OBB-A1422	Darkfield Condenser OBB-A1422 (0,85-0,91 | fixed)
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-A1578	Microscope tube OBB-A1578 (Binocular, Butterfly, 30°)
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-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 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)
YKK-01	Power cord (CH) YKK-01

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
	Infinity system: Infinity corrected optical system
	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
	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

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