



OZM + ODC 825/832



OZP + ODC 825/832



OZP + ODC 241

6

First-class optics as well as strong illumination combined with a high level of flexibility and digital tools

Features

- The stereo microscopes of the OZM- and OZP range are available to you as a comprehensive digital solution for your live investigations. Optionally available with an mounted tablet or C-mount camera. 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
- The mounted C-mount camera is available in different versions and can be used anywhere
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery

Technical data

- Optical system: Greenough optics
- Beam path distribution: 0:100
- Interpupillary distance: 52 mm – 76 mm
- Diopter adjustment, both-sided
- Net weight approx. 6 kg
- Eyepiece: HSWF 10x/Ø 23 mm
- Stand: pillar
- Illumination: 3 W-LED (reflected light and transmitted light), Brightness adjustable (separate)

OZM 544

- Tube 45° inclined
- Magnification ratio 6,4:1
- Field of view: Ø 32,8 mm – 5,1 mm
- Objective: 0,7x – 4,5x
- Overall dimensions W×D×H 330×285×510 mm

OZP 558

- Tube 35° inclined
- Magnification ratio 9,2:1
- Field of view: Ø 38,3 mm – 4,2 mm
- Objective: 0,6x – 5,5x
- Overall dimensions W×D×H 330×285×540 mm

For detailed information on the individual components, see the relevant product description of the individual item

Model	Included camera	Camera Resolution	Camera Interface	Camera Framerate	Camera Sensor
KERN					
OZM 544C825	ODC 825	5,1 MP	USB 2.0	6,8 - 55 fps	CMOS 1/2,5"
OZM 544C832	ODC 832	5,1 MP	USB 3.0	14,2 - 101,2 fps	CMOS 1/2,5"
OZP 558C825	ODC 825	5,1 MP	USB 2.0	6,8 - 55 fps	CMOS 1/2,5"
OZP 558C832	ODC 832	5,1 MP	USB 3.0	14,2 - 101,2 fps	CMOS 1/2,5"
OZP 558T241	ODC 241	5 MP	WiFi, USB 2.0, HDMI, MicroSD card slot	30 fps	Sony CMOS 1/2,8"



OZM 542



OZM 544

Lab Line

First-class optics and strong illumination combined with a high level of flexibility

Features

- The KERN OZM-5 series is a range of excellent stereo zoom microscopes with above-average optical features.
- The ergonomic shape allows a simple, effortless working over a period of several hours.
- The extraordinarily strong and continuously dimmable 3W LED incident and transmitted illumination ensures a flexible and particularly good level of illumination for your sample.
- With its large working distance, an extra large field of view and its brilliant resolution, the KERN OZM provides sharp, high-contrast, colour-true images.
- As standard this microscope offers you continuous total magnification of 7x - 45x
- There is a choice of a binocular model as well as a trinocular model for connecting a camera for documentation purposes and for quality reports

- The pillar stand is particularly flexible due to its variable and sturdy adjustment mechanism and therefore enables ergonomic working procedures
- A large selection of eyepieces, (universal) stands, a darkfield kit, external illumination units as well as auxiliary objectives and more are available as accessories
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- A C-mount adapter is required to connect a camera to the trinocular version. You can select this adapter from the following model outfit list
- Please find detailed information in the following model outfit list

Scope of application

- In vitro fertilisation, detection of parasites, zoology and botany, tissue preparation, section, quality control, LCD/LED electronics, semiconductor technology, assembly and repair

Applications/Samples

- Samples with focus on three-dimensional impression (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- Optical system: Greenough optics
- Brightness adjustable (separate)
- Tube 45° inclined
- Magnification ratio 6,4:1
- OZM 544: Beam path distribution: 0:100
- Interpupillary distance: 52 mm - 76 mm
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 330×285×440 mm
- Net weight approx. 4,8 kg

STANDARD



OPTION



Model

Tube

Eyepiece

Field of view

Objective Zoom

Stand

Illumination

KERN

Model	Tube	Eyepiece	Field of view	Objective Zoom	Stand	Illumination
OZM 542	Binocular	HSWF 10x/Ø 23 mm	Ø 32,8 - 5,1 mm	0,7x - 4,5x	pillar	3 W LED (incident + transmitted)
OZM 544	Trinocular	HSWF 10x/Ø 23 mm	Ø 32,8 - 5,1 mm	0,7x - 4,5x	pillar	3 W LED (incident + transmitted)

Eyepiece	Specifications - Objectives					
	Magnification	Standard	Auxiliary objectives			
			1,0x	0,5x	0,7x	1,5x
HSWF 10x	Total magnification	7x - 45x	3,5x - 22,5x	4,9x - 31,5x	10,5x - 67,5x	14x - 90x
	Field of view mm	Ø 32,8 - 5,1	Ø 65,7 - 10,2	Ø 46,9 - 7,3	Ø 21,9 - 3,4	Ø 16,4 - 2,6
SWF 15x	Total magnification	10,5x - 67,5x	5,3x - 33,8x	7,4x - 47,2x	15,8x - 101,3x	21x - 135x
	Field of view mm	Ø 24,3 - 3,8	Ø 48,6 - 7,6	Ø 34,7 - 5,4	Ø 16,2 - 2,5	Ø 12,1 - 1,9
SWF 20x	Total magnification	14x - 90x	7x - 45x	9,8x - 63x	21x - 135x	28x - 180x
	Field of view mm	Ø 20 - 3,1	Ø 40 - 6,2	Ø 28,6 - 4,4	Ø 13,3 - 2,1	Ø 10 - 1,6
SWF 30x	Total magnification	21x - 135x	10,5x - 67,5x	14,7x - 94,5x	31,5x - 202,5x	42x - 270x
	Field of view mm	Ø 12,9 - 2	Ø 25,7 - 4	Ø 18,4 - 2,9	Ø 8,6 - 1,6	Ø 6,4 - 1
Working distance		110 mm	195 mm	145 mm	58 mm	35 mm
Maximum sample height		130 mm	30 mm	65 mm	160 mm	175 mm

Model outfit	Model KERN		Order number	
	OZM 542	OZM 544		
Eyepieces (30 mm)	HSWF 10x/Ø 23 mm	✓✓	✓✓	OZB-A5503
	SWF 15x/Ø 17 mm	○○	○○	OZB-A5504
	SWF 20x/Ø 14 mm	○○	○○	OZB-A5505
	SWF 30x/Ø 9 mm	○○	○○	OZB-A5506
	HSWF 10x/Ø 23 mm (reticule 0,1 mm)	○	○	OZB-A5512
	SWF 15x/Ø 17 mm (reticule 0,05 mm)	○	○	OZB-A5513
	SWF 20x/Ø 14 mm (reticule 0,05 mm)	○	○	OZB-A5514
Achromatic auxiliary objectives	0,5x	○	○	OZB-A5612
	0,7x	○	○	OZB-A5613
	1,5x	○	○	OZB-A5615
	2x	○	○	OZB-A5616
	Soldering protection lens	○	○	OZB-A5614
C-Mount	0,3x (focus adjustable)		○	OZB-A5701
	0,5x (focus adjustable)		○	OZB-A5702
	1x (focus adjustable)		○	OZB-A5703
	1,0x (with micrometer) only in combination with OZB-A5703		○	OZB-A5704
Darkfield unit		○	○	OZB-A4601
Object clamp		○	○	OBB-A6205
Stand	Pillar, with 3 W LED illumination (transmission + incident)	✓	✓	
Stand insert	Frosted glass/Ø 94,5 mm	✓	✓	OZB-A5192
	Black-white/Ø 94,5 mm	✓	✓	OZB-A5191
	Clear glass/Ø 94,5 mm	○	○	OZB-A5190
Mechanical stage (Pre-assembling on request)	Stage size B×T 188×160 mm, Travel 76×65 mm, for transmitted and incident illumination	○	○	OZB-A5781
	Stage size B×T 180×175 mm, Travel 100×86 mm, for incident illumination only	○	○	OZB-A5782

✓ = included with the delivery

○ = Option

Further accessories and spare parts
see *Internet*

Microscope Cameras KERN ODC – Specialists in microscopy for measurement, counting, documentation, archiving and image processing

A large selection of microscope cameras is available for your individual applications. The universal microscope cameras can be used anywhere and can be connected to the microscope as well as to a laptop or PC using the USB cable (USB 2.0 or USB 3.0, *see table*). The power supply is through the USB cable, which means that no additional power supply is required.

Your daily work is made significantly easier with the very best synchronisation, a high frame rate as well as stable image performance together with our accompanying Camera Software Microscope VIS KERN OXM 901. For details about our software please refer to the *Camera Software Microscope* product group in the catalogue

These universal cameras can also be connected to all microscopes available on the internet. Please order the appropriate C-mount adapter for the particular microscope.



Accessories: Object micrometer, for calibrating the software measuring function, KERN ODC-A2404

C-Mount Cameras – USB 2.0/3.0 KERN ODC-82 · ODC-83



Features

- Through the proven CMOS technology, in connection with the USB 2.0 or USB 3.0 the images are shown quickly and clearly
- These cameras are also ideal for more demanding applications, such as, for example, darkfield, phase contrast and for fluorescence applications
- As well as the camera, the delivery includes an USB cable (length: 2 m), various eyepiece adapters and an object micrometre to calibrate the software
- Please order the appropriate C-mount adapter to fit your KERN microscope now

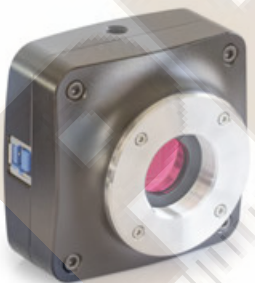
STANDARD



Model	Resolution	Interface	FPS	Sensor	Sensor size	Colour/ Monochrome	Supported operating system
KERN							
ODC 825	5,1 MP	USB 2.0	6,8 – 55	CMOS	1/2,5"	colour	Win XP, Vista, 7, 8, 10, 11
ODC 831*	3,1 MP	USB 3.0	27,3 – 53,3	CMOS	1/3"	colour	Win XP, Vista, 7, 8, 10, 11
ODC 832	5,1 MP	USB 3.0	14,2 – 101,2	CMOS	1/2,5"	colour	Win XP, Vista, 7, 8, 10, 11

! * ONLY WHILE STOCKS LAST

C-Mount Camera – High Resolution KERN ODC-84



Features

- The high-resolution, professional ODC-84 range offers you an impressive 20 megapixel resolution which will give you bright detailed views of your sample. By using the integrated USB 3.0 interface, live images are transferred to the KERN OXM 902 for processing and documentation
- Power supply is through the USB interface so that there is no requirement for an external power source.
- As well as the camera, the delivery includes an USB cable (length: 2 m), various eyepiece adapters and an object micrometre to calibrate the software
- Please order the appropriate C-mount adapter (only 1,0x possible) to fit your KERN microscope now

Note: Can only be used in combination with compound microscopes

STANDARD



Model	Resolution	Interface	FPS	Sensor	Sensor size	Colour/ Monochrome	Supported operating system
KERN							
ODC 841	20 MP	USB 3.0	15 – 60	CMOS	1"	colour	Win XP, Vista, 7, 8, 10, 11

Piktogramok: KERN mikroszkópok, refraktométerek



360°-ban
elforgatható
mikroszkópfej



Monokuláris mikroszkóp
Egy szemmel végezhető
vizsgálatokhoz



Binokuláris mikroszkóp
Két szemmel végezhető
vizsgálatokhoz



Trinokulár mikroszkóp Két
szemmel végezhető
vizsgálatokhoz és egy külön
csatlakozóval opcionálisa
rendelhető kamerák
csatlakoztatásához



Abbe Condenser
Nagy numerikus
apertúra, koncentrált
fókusz és fény



Halogén megvilágítás
Éles, kontrasztos kép



LED megvilágítás
Hideg fényű,
energiatakarékos, hosszú
élettartamú megvilágítás



LED megvilágítás
Speciális LED $\lambda = 589$ nm
hullámhosszal
(sárga fény)



Felső megvilágítás
Nem áttetsző tárgyakhoz



Alsó megvilágítás
Áttetsző tárgyakhoz



Fluoreszkáló megvilágítás
Sztereo mikroszkópokhoz



Fluoreszkáló megvilágítás
100 W-os nagynyomású
gőzlámpával vagy 5 W-os
LED-del



**Fénymező-megvilágító
egység**
Nagyobb kontraszthoz



**Sötétmező megvilágító
egység**
Nagyobb kontraszt indirekt
megvilágításnál



Polarizációs egység
A fény polarizálásához



Végtelenített rendszer
Végtelenre korrigált optikai
rendszer



Zoom nagyítás
Sztereo mikroszkópoknál



Auto - fókusz
Automatikusan
beálló fókusz



Telecentrikus rendszer
Sztereo mikroszkópokhoz,
szemfáradás elkerüléséhez



Beépített skála
Okulárban



SD kártya
Adatok tárolásához



USB csatlakozó
A mérőeszköz
csatlakoztatására PC-hez
vagy más perifériához



WIFI csatlakozás
Adatátvitel
nyomtatóra, PC-re
vagy más perifériára



HDMI digitális kamera
Képek közvetlen átviteléhez
külső megjelenítő eszközökre



PC szoftver
A mért értékek átvitelére
és feldolgozására PC-n



**Automatikus hőmérséklet
kompenzálás**
10 °C és 30 °C között végzett
méréseknél



**Por és folyadék elleni védelmi
fokozat IPxx besorolás szerint:**
A védelem konkrét fokozatát a
piktogram mutatja.



Elemes működés
Elemmel működő eszköz.
Az elem típusa a terméknél
van megadva



Újratölthető elemmel működés
Újratölthető elem fogadására előkészített eszköz



Hálózati adapter
230V/50Hz EU
szabvány szerint
Rendelésre GB, AUS,
USA verzió



Hálózati működés
Eszközbe beépítve. 230V/50Hz
EU szabvány. Rendelésre
GB, AUS, USA szabvány
szerint



Kiszállítás
Magyarországra
általában 5 munkanap



Rakapos kiszállítás
Magyarországra
általában 10 munkanap.

Rövidítések

C-Mount	Adapter kamera csatlakoztatásához trinokulár mikroszkópokhoz	SWF	Szuperszéles látómező (legalább \varnothing 23 mm 10x okkulárral)
FPS	Képkocka frissítés másodpercenként	W.D.	Munkatávolság
H(S)WF	Magas (Szuper) széles látómező (szemüveget viselőknél)	WF	Széles látómező (\varnothing 22 mm-ig 10x okkulárral)
LWD	Nagy munkatáv		
N.A.	Numerikus Apertúra		



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Mérőeszközök, mérlegek, súlyok kereskedelme, kalibrálása, hitelesítése

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