KERN

Coaxial microscope KERN OZC-5



INPUT: DC 0-6 8V 0-300mA

Plug in for power supply

PROFESSIONAL LINE

The coaxial with parallel optics for excellent contrast and depth of field

Features

- The KERN OZC has been developed specially to meet requirements for high contrast and depth of field. These devices are absolutely essential for the LCD/LED electronics industry
- The coaxial 2 W LED reflected illumination which is integrated into the objective guarantees selective depth of focus, so that even low-lying sections can be recorded (e.g. the bottom of a drilled hole)
- The parallel optics is a high-quality optical system and provides excellent images with the best contrast, colour and depth of field with fatigue-free working.
 Refocusing is also only necessary in very few cases when magnifying the zoom
- The large, adjustable magnification range from 18 to 65 times gives you continuous zoom when you are working

- As standard, the KERN OZC is trinocular and is therefore equipped for connecting a camera for documentation purposes and for quality reports
- The arm curved stand ensures precise adjustment and focusing of your sample. The stand base is particularly heavy and therefore offers a high level of stability and an extremely secure footing
- A large selection of eyepieces and a mechanical stage extension 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. You can select this adapter from the following model outfit list
- Please find detailed information in the following model outfit list

Scope of application

LCD/LED electronics, semiconductor technology

Applications/Samples

• Samples with focus on three-dimesnional impression (depth, thickness), zoom for variable magnification, e.g. LCD/LED electronics, circuit boards, ICs

Technical data

- Optical system: Parallel optics
- Brightness adjustable
- Tube 45° inclined
- Magnification ratio: 3,6:1
- Light distribution 50:50
- Interpupillary distance 52 76 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 305×180×405 mm
- Net weight approx. 6,6 kg.

STANDARD)							OPTION
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360°	TRINO	LED	IL	ZOOM	PARALLEL	230 V	1 DAY	SCALE

Model		Standard configuration					
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination	
KERN			mm	Zoom			
OZC 583	Trinocular	HSWF 10×/Ø 23 mm	Ø 12,78-3,5	1,8×-6,5×	Arm curved	2 W LED (coaxial incident)	

I ONLY WHILE STOCKS LAST



Coaxial microscope KERN OZC-5

Eyepiece	Specifications - Objectives				
	Magnification	Standard			
		1,0×			
HWF 10×	Total magnification	18×-65×			
	Field of view mm	Ø 12,78-3,5			
SWF 15×	Total magnification	27×-97,5×			
SWF 15*	Field of view mm	Ø 9,5-2,6			
SWF 20×	Total magnification	36×-130×			
SWF 20*	Field of view mm	Ø 7,78- 2,2			
SWF 30×	Total magnification	54×-195×			
3WF 30*	Field of view mm	Ø 5 – 1,4			
Working distance	·	92 mm			
Maximum sample he	eight	35 mm			

Model outfit		Model KERN	Order number		
		OZC 583			
	HSWF 10×/Ø 23 mm	44	OZB-A5503		
	SWF 15×/Ø 17 mm	00	OZB-A5504		
	SWF 20×/Ø 14 mm	00	OZB-A5505		
Eyepieces (30,0 mm)	SWF 30×/Ø 9 mm	00	OZB-A5506		
	HSWF 10× /Ø 23 mm (reticule 0,1 mm)	0	OZB-A5512		
	SWF 15×/Ø 17 mm (reticule 0,05 mm)	0	OZB-A5513		
	SWF 20×/Ø 14 mm (reticule 0,05 mm)	0	OZB-A5514		
C-Mount	0,3× (focus adjustable)	0	OZB-A5701		
	0,5× (focus adjustable)	0	OZB-A5702		
	1,0× (focus adjustable)	0	OZB-A5703		
	1,0× (with micrometer) only in combination with OZB-A5703	0	OZB-A5704		
	for SLR cameras (Nikon)	0	OZB-A5706		
	for SLR cameras (Olympus)	0	OZB-A5707		
	for SLR cameras (Canon)	0	OZB-A5708		
Stand	Arm curved, without illumination	✓			
External illumination	Please find the information about external illumination units in the catalogue on page 88 and on the internet				

 \checkmark = Included with delivery

O = Option

KERN OPTICS CATALOGUE 2021



360° rotatable Q microscope head



360°

Monocular Microscope For the inspection with one eye



Binocular Microscope For the inspection with both eyes

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



Halogen illumination For pictures bright and rich in contrast



LED illumination Cold, energy-saving and especially long-life illumination



Incident illumination For non-transparent objects



Transmitting illumination For transparent objects



Fluorescence illumination For stereomicroscopes



Fluorescence illumination for compound microscopes





With 100W mercury lamp and filter



Fluorescence illumination for compound microscopes With 3 W LED illumination and filter



Phase contrast unit For a higher contrast



Darkfield condenser/unit For a higher contrast due to indirect illumination



Polarising unit To polarise the light



Infinity system Infinity corrected optical system

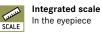


PARALLEL

Zoom magnification For stereomicroscopes



Parallel optical system For stereomicroscopes, enables fatigue-proof working



SD card For data storage



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USB 3.0

USB 2.0 digital camera For direct transmitting of the picture to a PC USB 2.0



1 DAY

Package shipment

Power supply

The time required to manufacture the product internally is shown in days in the pictogram

Abbreviations

C-Mount	Adapter for the connection of a camera to a trinocular microscope	LWD	Long Working Distance	SWF	Super Wide Field (Field number at least Ø 23 mm for 10× eyepiece)
FPS	Frames per second	N.A.	Numerical Aperture	W.D.	Working Distance
H(S)WF	High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)	SLR camera	Single-Lens Reflex camera	WF	Wide Field (Field number up to Ø 22 mm for 10× eyepiece)

Your KERN specialist dealer:





WLAN data interface For transmitting of the picture to a mobile display device

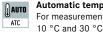
HDMI

devic

HDMI digital camera For direct transmitting of the picture to a display

o I
SOFTWARE
JOI THAILE

PC software To transfer the measurements from the device to a PC



Automatic temperature compesation For measurements between

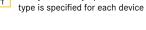


Protection against dust and water splashes IPxx

The type of protection is shown by the pictogram

BATT

Battery operation Ready for battery operation. The battery





Battery operation rechargeable Prepared for a rechargeable battery



Mains adapter 230V/50Hz in standard version for EU.

On request GB, AUS or USA version

Integrated in microscope. 230V/50Hz

-6 230 V

