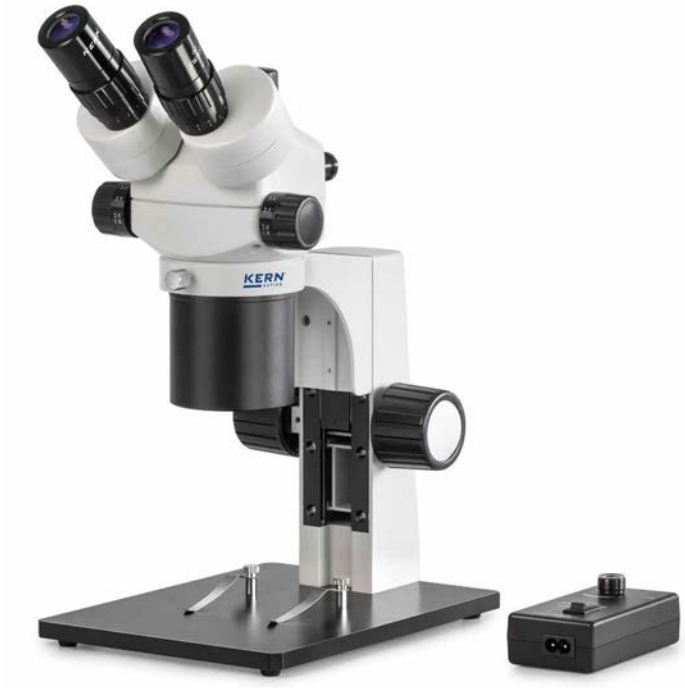
Coaxial microscope KERN OZC-5



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 charts.

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
- 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

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

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

Model outfit		Model KERN	Order number	
		OZC 583		
Eyepieces (30,0 mm)	HSWF 10×/⌀ 23 mm	✓✓	OZB-A5503	
	SWF 15×/⌀ 17 mm	○○	OZB-A5504	
	SWF 20×/⌀ 14 mm	○○	OZB-A5505	
	SWF 30×/⌀ 9 mm	○○	OZB-A5506	
	HSWF 10× /⌀ 23 mm (reticule 0,1 mm)	○	OZB-A5512	
	SWF 15×/⌀ 17 mm (reticule 0,05 mm)	○	OZB-A5513	
	SWF 20×/⌀ 14 mm (reticule 0,05 mm)	○	OZB-A5514	
C-Mount	0,3× (focus adjustable)	○	OZB-A5701	
	0,5× (focus adjustable)	○	OZB-A5702	
	1,0× (focus adjustable)	○	OZB-A5703	
	1,0× (with micrometer) only in combination with OZB-A5703	○	OZB-A5704	
	for SLR cameras (Nikon)	○	OZB-A5706	
	for SLR cameras (Olympus)	○	OZB-A5707	
	for SLR cameras (Canon)	○	OZB-A5708	
Stand	Arm curved, without illumination	✓		
Mechanical stage (Pre-assembling on request)	Stage size W×D 188×160 mm, Travel 76×65 mm, for incident and transmitted illumination	○	OZB-A5781	
	Stage size W×D 180×175 mm, Travel 100×86 mm, for incident illumination only	○	OZB-A5782	
External illumination	Please find the information about external illumination units in the catalogue from page 81 and on our website www.kern-sohn.com			

✓ = Included with delivery ○ = Option

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KERN Pictograms:

360° rotatable microscope head

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 100 W 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

Zoom magnification
For stereomicroscopes

Parallel optical system
For stereomicroscopes, enables fatigue-proof working

Integrated scale
In the eyepiece

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

Integrated USB 3.0 digital camera
For direct transmitting of the picture to a PC

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

SD card
For data storage

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

Automatic temperature compesation
For measurements between 10 °C and 30 °C

Protection against dust and water splashes IPxx
The type of protection is shown by the pictogram.

Battery operation
Ready for battery operation. The battery type is specified for each device.

Battery operation rechargable
Prepared for a rechargable battery operation

Mains adapter
230V/50Hz in standard version for EU. On request GB, AUS or USA version.

Power supply
Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.

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

Warranty
The warranty period is shown in the pictogram.

Abbreviations

C-Mount Adapter for the connection of a camera to a trinocular microscope

FPS Frames per second

H(S)WF High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)

LWD Long Working Distance

N.A. Numerical Aperture

SLR Kamera Single-Lens Reflex camera

SWF Super Wide Field (Field number at least Ø 23 mm for 10x eyepiece)

W.D. Working Distance

WF Wide Field (Field number up to Ø 22 mm for 10x eyepiece)

Your KERN specialist dealer: