



**PROFESSIONAL LINE**

The coaxial model for your LCD / LED-electronic and semi-conductor workstation

**Features**

- The KERN OZC-5 models are very robust and easy to use trinocular stereo microscopes, with a zoom range operated from both sides and coaxial illumination for above-average images with excellent contrast and depth of field.
- The base is solid and therefore extremely stable.
- Their ideal applications are at monitoring, control and measuring workstations in the semi-conductor, LCD and LED industries, where coaxial illumination is required.
- The parallel optical system allows work without tiring the eyes. In addition, only very minor refocussing at the zoom enlargement is necessary.
- Furthermore, it provides precise resolution, an extra large field of view and is absolutely true-to-colour.
- These models offer the best possible ease of use thanks to their extra large working distance providing a large working surface.
- The multitude of eyepieces and additional accessory parts facilitates use in all common and professional stereo microscopy applications.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

**Technical data**

- Optical system: Parallel
- Brightness adjustable
- Magnification ratio: 3,6:1
- Tube: 45° inclined
- Interpupillary distance: 52 - 76 mm
- Diopter adjustment (both-sided)
- Packing dimensions WxDxH 370x330x385 mm
- Net weight approx. 7,1 kg

Please find detailed information in the following charts.

STANDARD

360° TRINO LED IL ZOOM PARALLEL 230 V 1 DAY 3 YEARS WARRANTY

OPTION

SCALE





























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

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

Model outfit		Model KERN	Order number	
		OZC 583		
Eyepieces	HWF 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	
	HWF / Ø 23 mm (reticule 0,1 mm)	○	OZB-A5512	
	SWF / Ø 17 mm (reticule 0,05 mm)	○	OZB-A5513	
	SWF / Ø 14 mm (reticule 0,05 mm)	○	OZB-A5514	
C-Mount	0,3x	○	OZB-A5701	
	0,5x	○	OZB-A5702	
	1,0x	○	OZB-A5703	
	1,0x (with micrometer)	○	OZB-A5704	
	for SLR cameras (Nikon)	○	OZB-A5706	
	for SLR cameras (Olympus)	○	OZB-A5707	
	for SLR cameras (Canon)	○	OZB-A5708	
Stands	Arm curved, without illumination	●		
Mechanical stage	Stage size: WxD 188x160 mm, Travel: 76x65 mm, for incident and transmitting illumination	○	OZB-A5781	
	Stage size: WxD 180x175 mm, Travel: 100x86 mm, for incident illumination only	○	OZB-A5782	
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on the internet			

● = Standard configuration

○ = Option

 360°	<b>360° rotatable microscope head</b>	 FL-HB0	<b>Fluorescence illumination for compound microscopes</b> With 100 W mercury lamp and filter	 AUTO ATC	<b>Automatic temperature compensation</b> For measurements between 10 °C and 30 °C
 MONO	<b>Monocular Microscope</b> For the inspection with one eye	 FL-LED	<b>Fluorescence illumination for compound microscopes</b> With 3 W LED illumination and filter	 IP	<b>Protection against dust and water splashes IPxx</b> The type of protection is shown by the pictogram.
 BINO	<b>Binocular Microscope</b> For the inspection with both eyes	 PH	<b>Phase contrast unit</b> For a higher contrast	 BATT	<b>Battery operation</b> Ready for battery operation. The battery type is specified for each device.
 TRINO	<b>Trinocular Microscope</b> For the inspection with both eyes and the additional option for the connection of a camera	 POLAR	<b>Polarising unit</b> To polarise the light	 ACCU	<b>Rechargeable battery pack</b> Rechargeable set.
 ABBE	<b>Abbe Condenser</b> With high numerical aperture for the concentration and the focusing of light	 INFINITY	<b>Infinity system</b> Infinity corrected optical system	 230 V	<b>Mains adapter</b> 230V/50Hz in standard version for EU. On request GB, AUS or USA version.
 HAL	<b>Halogen illumination</b> For pictures bright and rich in contrast	 ZOOM	<b>Zoom magnification</b> For stereomicroscopes	 230 V	<b>Power supply</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
 LED	<b>LED illumination</b> Cold, energy saving and especially long-life illumination	 PARALLEL	<b>Parallel optical system</b> For stereomicroscopes, enables fatigue-proof working	 DAYS	<b>Package shipment</b> The time required to manufacture the product internally is shown in days in the pictogram.
 IL	<b>Incident illumination</b> For non-transparent objects	 SCALE	<b>Integrated scale</b> In the eyepiece	 3 YEARS WARRANTY	<b>Warranty</b> The warranty period is shown in the pictogram.
 TL	<b>Transmitting illumination</b> For transparent objects	 USB 2.0	<b>Integrated USB 2.0 digital camera</b> For direct transmitting of the picture to a PC		
 FL	<b>Fluorescence illumination</b> For stereomicroscopes	 USB 3.0	<b>Integrated USB 3.0 digital camera</b> For direct transmitting of the picture to a PC		

## Abbreviations

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

## Your KERN specialist dealer: