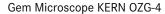
MICROSCOPES & REFRACTOMETERS 2024

Microscopes







Side view

Lab Line The specialist for jewellers and the gem industry

Features

- The KERN OZG series has been specially developed for jewellers and mineral observations in the gem industry. Precious stones and gems can be checked and handled with this stereo zoom microscope
- You have a choice of a strong halogen transmitted illumination unit as well as halogen reflected and transmitted illumination variants, each with an additional frontal illumination
- As standard this microscope offers you continuous total magnification of 7× - 36×

- As well as very good optical characteristics, this model forms an ideal package with its dark field unit with object clamp which is included in the scope of delivery
- The KERN OZG 493 is fitted with a pole stand which has both integrated bright halogen light units with incident and transmitted illumination, as well as additional front lighting
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- Please find detailed information in the following model outfit list

Scope of application

· Jewellers and gem industry

Applications/Samples

 Samples with focus on three-dimesnional impression (depth, thickness), zoom for variable magnification, special stand for processing workpieces e.g. gems, components, precious stones

Technical data

- Optical system: Greenough optics
- Brightness adjustable
- + Tube 45° inclined
- Interpupillary distance 55 75 mm
- Diopter adjustment: Both-sided
- Magnification ratio: 5,1:1
- Overall dimensions W×D×H 310×170×350 mm
- Net weight approx. 5 kg

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360°	BINO	HAL	IL	TL	ZOOM	230 V	1 DAY

Model	Standard configuration					
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination
KERN			mm	Zoom		
OZG 493	Binocular	WF 10×/Ø 20 mm	Ø 26,7 – 5,6	0,7×-3,6×	Pillar style	10 W Halogen (incident) 10 W Halogen (transmitted) 10 W Fluorescence (front illumination)



STANDARD

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Microscopes

Gem Microscope KERN OZG-4

OZG 493	Specifications – Objectives					
Eyepiece	Magnification	Standard				
		1,0×				
WF 5×	Total magnification	3,75×-18×				
WF 3^	Field of view mm	Ø 26-6				
WF 10×	Total magnification	7,5×-36×				
WF IU*	Field of view mm	Ø 26,7 – 5,6				
WE 15.	Total magnification	11,25×-54×				
WF 15×	Field of view mm	Ø 19-4,5				
WE 20.	Total magnification	15×-72×				
WF 20×	Field of view mm	Ø 12,5-3				
Working distance		86 mm				

Model outfit		Model KERN	Order number	
		OZG 493		
	WF 5×/Ø 16,2 mm	00	OZB-A4101	
Eyepieces	WF 10×/Ø 20 mm	44	OZB-A4102	
(30,5 mm)	WF 15×/Ø 15 mm	00	OZB-A4103	
	WF 20×/Ø 10 mm	00	OZB-A4104	
Darkfield unit	Darkfield unit	✓	OZB-A4601	
Object clamp	Object clamp (steel wire)	✓	OZB-A4604	
Stand	Pillar style, with 12 V/10 W Halogen (transmitted + incident) and 10 W Fluorescent illumination (front)	✓		
Stage plate	Frosted glass/Ø 95 mm	✓	OZB-A4805	
	Black-white/ø 95 mm	✓	OZB-A4806	
Illumination	10 W spare bulb (transmitted + incident)	✓	OZB-A4804	
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 \checkmark = Included with delivery

O = Option

<u>KERN</u>



MICROSCOPES & REFRACTOMETERS 2024



KERN Pictograms

0 360°	360° rotatable microscope head	FL-HBO	Fluorescence illumination for compound microscopes With 100W mercury	SCALE	Integrated scale In the eyepiece		Battery operation Ready for battery operation. The battery type is specified
O MONO	Monocular Microscope For the inspection with one eye	*	lamp and filter Fluorescence illumination	SD	SD card For data storage		for each device. Battery operation rechargeable
OO BINO	Binocular Microscope For the inspection with both eyes	FL-LED	for compound microscopes With 3 W LED illumination and filter	USB 2.0	USB 2.0 interface For data transmission	RECHARGE	Prepared for a rechargeable battery operation
TRINO	Trinocular Microscope For the inspection with both eyes and the additional option for the connection	O PH	Phase contrast unit For a higher contrast	USB 3.0	USB 3.0 interface For data transmission	230 V	Plug-in power supply 230V/50Hz in standard version for EU. On request GB, AUS
	of a camera	Darkfield condenser/		WIFI data interface: For transmitting of			or USA version.
ABBE	Abbe Condenser With high numerical aper- ture for the concentration	DF	unit For a higher contrast due to indirect illumination	WIFI	the picture to a mobile display device	230 V	Integrated power supply unit Integrated in microscope. 230V/50Hz standard EU. More standards e.g.
	and the focusing of light Halogen illumination	POLAR	Polarising unitTo polarise the light	HDMI	HDMI digital camera For direct transmitting of the picture to a display		
HAL	For pictures bright and rich		Infinity system		device		GB, AUS or USA on request.
Ð	Cold energy-saving	OO INFINITY	Infinity corrected optical system	PC software To transfer the measure- mentsfrom the device to a PC.	To transfer the measure-	1 DAY	Package shipment The time required to manufacture the product internally is shown in days in the pictogram.
LED		Q	Zoom magnification For stereomicroscopes				
Ö	乃 Incident illumination				Automatic temperature compesation		Pallet shipment
IL	— For non-transparent objects	F	Auto-focus For automatic control		or measurements between 0 °C and 30 °C	2 DAYS	The time required to manufacture the product
Q	Transmitting illumination For transparent objects		of the focus level		Protection against dust and water splashes IPxx:		internally is shown in days in the pictogram.
ΤL		PARALLEL	Parallel optical system For stereomicroscopes, enables fatigue-proof	IP	The type of protection is shown in the pictogram cf.		
S FL	Fluorescence illumination For stereomicroscopes		enables fatigue-proof working		DIN EN 60529:2000-09, IEC 60529:1989+A1:1999 +A2:2013		

Abbreviations

C-Mount	Adapter for the connection of a camera to a trinocular microscope	SLR camera	Single-Lens Reflex camera
FPS	Frames per second	SWF	Super Wide Field (Field number at least Ø23 mm for 10× eyepiece)
H(S)WF	High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)	W.D.	Working Distance
LWD	Long Working Distance	WF	Wide Field (Field number up to Ø22 mm for 10× eyepiece)
N.A.	Numerical Aperture		

