KERN **OBN 142C861**

Fluorescence digital set: high-resolution image quality for complex analyses

Date of creation: 15.11.2026

Category	
Brand	Optics
Product category	Microscope
Product group	Digital microscope set
Product family	OBN-S

Construction	
Dimension (W×D×H)	390×235×620 mm
Optical system	Infinity
Tube type	Trinocular
Tube angle of inclination	30°
Tube 360° rotation	✓
Tube type	Siedentopf
Light distribution	0:100 80:20
Contrasting methods	Bright field Darkfield (optional) Fluorescent Polarisation (optional) Phase contrast (optional)
Standard objectives	4× 10× 20× 40× 100×
Lens quality	Infinity Plan
Nosepiece screw-in locations	5
Interpupillary distance [Min]	50 mm
Interpupillary distance [Max]	75 mm
Diopter adjustment	both-sided
Diopter adjustment [Min]	-5
Diopter adjustment [Max]	5
Colour temperature	5500 K

Functions	
Supported operating systems	Win 7 Win 8 Win 10 Win 11
Camera - Software functions	Image capturing Video capturing Measurements
Camera - Applicable software	Microscope VIS 2.0 Lite (OXM 903)

Interface	
Interfaces	USB 3.0

Ocular	
Ocular field width	HWF
Ocular magnifications	10x
Ocular visual field	20 mm
Ocular diameter	23,2 mm

Illumination	
Illuminance	Reflected light Transmitted light
Illumination type incident light	LED
Illumination type transmitted light	LED
Illumination intensity incident light	5 W
Illumination intensity transmitted light	3 W
Illumination dimmable	Incident light + Transmitted light, separate
Koehler illumination	✓
Filter possible	✓
Field diaphragm	✓

80000 | Mikroskoptisch	
Bauweise	mechanical
Weg	78 mm; 55 mm
Durchlicht möglich	✓
ATTR_microscopeTableSpecimentHolders	2

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Focussing

Field of view [Min]	0,2 mm
Field of view [Max]	5 mm
Torque regulation	✓
Fine drive minimum	0,002 mm
Focusing mechanism	coaxial coarse and fine drive

Fluorescent

Fluorescent unit	Ultaviolet, Violet, Blue, Green (LED)

Condensor

Condensor type	Abbe
Condenser - Mounting	centerable
Condenser - Aperture	1,25
Aperture diaphragm	✓

Camera

Cameratype	USB3 Microscope Camera (Cooling) - C-Mount
Camera - Resolution	20 MP
Camera - Sensor type	Sony CMOS
Camera - Sensor size	1"
Camera - Colour depth	Colour
Camera - Framerate	5 - 30 fps
Camera- Mounting types	C-mount
Camera - Exposure method	Rolling Shutter
Camera - Sensor dimensions	13,056×8,755 mm
Camera - Sensor Diagonal	15,72 mm
Camera - Pixel size	2,4×2,4 µm
Camera - Exposure time [Min]	0,1 ms
Camera - Exposure time [Max]	3600000 ms

Power Supply

Supplied power supply	Power supply unit
Power supply type	Power adapter
Plug-in power supply / adapter for countries - included with the delivery	EURO
Plug-in power supply / adapter for countries - optional	AUS UK US CH
Input voltage power supply / power [Max]	100 - 240 V
Power supply cable removable	removable
Input voltage device / power [Max]	5 V 1000 mA
Power socket for mains adapter	Hollow plug, inside plus, Ø outside 5,5 mm, Ø inside 2,5 mm, long 10 mm

Environmental conditions

Storage temperature [Min]	-5 °C
Storage temperature [Max]	40 °C

Approval

CE mark	✓

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	550×450×750 mm
Shipping method	Parcel service
Net weight approx.	16 kg
Gross weight approx.	22 kg
Shipping weight	37,1 kg
Shipping volume weight	37,1 kg

Product information

GTIN/EAN number	4045761490901
Trade number	90118000
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD

OPTION