KERN **OBN 142**

The fluorescence microscope for the professional user



Date of creation: 24.10.2026

Category	
Brand	Optics
Product category	Microscope
Product group	Fluorescence microscope
Product family	OBN-14

Construction	
Dimension (W×D×H)	530×220×490 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

Ocular	
Ocular type	Eyepiece HWF 10x / Ø 20mm with anti-fungus, high eye point
Ocular field width	HWF
Ocular magnifications	10x
Ocular visual field	20 mm
Ocular diameter	23,2 mm

Objective	
Objectives - Details	Objective Infinity Plan 10x / 0,25 anti-fungus Objective Infinity Plan 100x / 1,25 oil, spring, anti-fungus Objective Infinity Plan 20x / 0,45 spring, anti-fungus Objective Infinity Plan 4x / 0,11 anti-fungus Objective Infinity Plan 40x / 0,65 spring, anti-fungus
Objectives magnifications	4x / 10x / 20x / 40x / 100x

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	
Weg	78 mm; 55 mm
Durchlicht möglich	✓

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ATTR_microscopeTableSpecimentHolders	2

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	✓

Power Supply

Supplied power supply	Power supply unit
Power supply type	Power adapter
Input voltage power supply / power [Max]	100 V - 240 V AC 50/60 Hz 0,3 A
Power supply cable removable	removable
Input voltage device / power [Max]	5 V, 1 A
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

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	510×470×500 mm
Shipping method	Parcel service
Net weight approx.	13 kg
Gross weight approx.	16 kg
Shipping weight	24 kg
Shipping volume weight	24 kg

Product information

GTIN/EAN number	4045761482456
Trade number	90118000
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

