

KERN OBN 142

The fluorescence microscope for the professional user

KERN



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	100:0

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	6000 K

Ocular

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

Objective

Objectives - Details	Objective Infinity Plan 10 x / 0,25 anti-fungus Objective Infinity Plan 100 x / 1,25 oil, spring, anti-fungus Objective Infinity Plan 20 x / 0,4 spring, anti-fungus Objective Infinity Plan 4 x / 0,11 anti-fungus Objective Infinity Plan 40 x / 0,66 spring, anti-fungus
Objectives magnifications	4 x / 10 x / 20 x / 40 x / 100 x

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	✓

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

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Power Supply

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

Environmental conditions

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

Approval

CE mark	✓
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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

Pictograms

STANDARD



OPTION

