# KERN **OBN 142**

The fluorescence microscope for the professional user

## 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<br>80:20 |
| Contrasting methods | Bright field<br>Darkfield (optional)<br>Fluorescent<br>Polarisation (optional)<br>Phase contrast (optional) |
| Standard objectives | 4×<br>10×<br>20×<br>40×<br>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 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<br>Objective Infinity Plan 100x / 1,25 oil, spring, anti-fungus<br>Objective Infinity Plan 20x / 0,45 spring, anti-fungus<br>Objective Infinity Plan 4x / 0,11 anti-fungus<br>Objective Infinity Plan 40x / 0,65 spring, anti-fungus |
| Objectives magnifications | 4x / 10x / 20x / 40x / 100x |

## Illumination

| | |
|---|---|
| Illuminance | Reflected light<br>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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## 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 |

## Approval

| | |
|---|---|
| CE mark | ✓ |

## 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 |
| REACH classification | no prohibited substances |

## Pictograms

### STANDARD

### OPTION