# KERN **OBL 146**

High-quality phase contrast microscope – specially pre-configured with a series of options for flexible expansion

**Date of creation: 14.11.2026**

| Category | |
|---|---|
| Brand | Optics |
| Product category | Microscope |
| Product group | Compound microscope |
| Product family | OBL-14 |

| Construction | |
|---|---|
| Dimension (W×D×H) | 395×200×380 mm |
| Optical system | Infinity |
| Tube type | Binocular |
| Tube angle of inclination | 30° |
| Tube 360° rotation | ✓ |
| Tube type | Butterfly |
| Contrasting methods | Bright field<br>Darkfield (optional)<br>Phase contrast<br>Polarisation (optional)<br>Fluorescent (optinal) |
| Standard objectives | 4×<br>100×<br>PH 10×<br>PH 40× |
| Lens quality | Infinity E-Plan / Plan |
| Nosepiece screw-in locations | 4 |
| Interpupillary distance [Min] | 50 mm |
| Interpupillary distance [Max] | 75 mm |
| Diopter adjustment | one-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 |
| Eye point | Standard |
| Ocular magnifications | 10x |
| Ocular visual field | 20 mm |
| Ocular diameter | 23,2 mm |

| Objective | |
|---|---|
| Objectives - Details | PH-Objective Infinity Plan 10x / 0,25 anti-fungus<br>Objective Infinity E-Plan 100x / 1,25 oil, spring, anti-fungus<br>Objective Infinity E-Plan 4 x / 0,11 anti-fungus<br>PH-Objective Infinity Plan 40x / 0,65 spring, anti-fungus |
| Objectives magnifications | 4x / 10x / 40x / 100x |

| Illumination | |
|---|---|
| Illuminance | Transmitted light |
| Illumination type transmitted light | LED |
| Illumination intensity transmitted light | 3 W |
| Illumination dimmable | Transmitted light |
| Filter possible | ✓ |
| Phase-contrast unit | PH condenser for single slot |
| Field diaphragm | ✓ |

| 80000 \| Mikroskoptisch | |
|---|---|
| Bauweise | mechanical |
| Weg | 76 mm; 52 mm |
| Durchlicht möglich | ✓ |
| ATTR_microscopeTableSpecimentHolders | 2 |
| ATTR_microscopeTableUser | Right-handed |

| Focussing | |
|---|---|
| Field of view [Min] | 0,2 mm |
| Field of view [Max] | 5 mm |
| Torque regulation | ✓ |
| Fine drive minimum | 0,002 mm |

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| | |
|---|---|
| Focusing mechanism | coaxial coarse and fine drive |

## Condensor

| | |
|---|---|
| Condensor type | Phase contrast condenser |
| Condenser - Mounting | fixed |
| Condenser - Aperture | 1,25 |
| Phase contrast | ✓ |

## 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<br>UK<br>US<br>CH |
| 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) | 546×380×280 mm |
| Shipping method | Parcel service |
| Net weight approx. | 6 kg |
| Gross weight approx. | 9 kg |
| Shipping weight | 11,6 kg |
| Shipping volume weight | 11,6 kg |

## Product information

| | |
|---|---|
| GTIN/EAN number | 4045761267794 |
| Trade number | 90118000 |
| Warranty Time | 36 mon |
| REACH classification | no prohibited substances |

## Pictograms

### STANDARD

### OPTION