# KERN **OBN 142T251**

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



**Date of creation: 25.10.2026**

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

| Display | |
|---|---|
| Display type | HD Touch Screen |
| Display screen size | 10,5" |
| Languages of the user interface | German<br>English |

| Construction | |
|---|---|
| Dimension (W×D×H) | 390×235×620 mm |
| Dimension display device (W×D×H) | 237×19×169 mm |
| Material display housing | plastic |
| 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>Polarisation (optional)<br>Fluorescent (optinal)<br>Phase contrast (optional) |
| Standard objectives | 4×<br>10× |
| | 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 | 5500 K |

| Functions | |
|---|---|
| Supported operating systems | Android |
| Memory - total size | 32 GB |
| Camera - Software functions | Image capturing<br>Video capturing<br>Measurements |
| Camera - Applicable software | integrated camera software (HDMI) |

| Interface | |
|---|---|
| Interfaces | Ethernet<br>Bluetooth<br>WiFi<br>USB 2.0<br>USB 3.0<br>HDMI |

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

| 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 | ✓ |

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| | |
|---|---|
| Filter possible | ✓ |
| Field diaphragm | ✓ |

## 80000 | Mikroskoptisch

| | |
|---|---|
| Bauweise | mechanical |
| Weg | 78 mm; 55 mm |
| Durchlicht möglich | ✓ |
| 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 | ✓ |

## Camera

| | |
|---|---|
| Cameratype | Tablet camera |
| Camera - Resolution | 8 MP 4 K |
| Camera - Sensor type | CMOS |
| Camera - Sensor size | 1/1,8" |
| Camera - Colour depth | Colour |
| Camera - Framerate | 30 fps |
| Camera- Mounting types | C-mount |
| Camera - Exposure method | Rolling Shutter |
| Camera - Sensor dimensions | 7,736×4,379 mm |
| Camera - Sensor Diagonal | 8,88 mm |
| Camera - Pixel size | 2×2 µm |
| Camera - Exposure time [Min] | 0 ms |
| Camera - Exposure time [Max] | 1000 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<br>UK<br>US<br>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 |

## Packing & Shipping

| | |
|---|---|
| Delivery time | 1 d |
| Dimensions packaging (W×D×H) | 590×440×390 mm |
| Shipping method | Parcel service |
| Net weight approx. | 11 kg |
| Gross weight approx. | 20 kg |
| Shipping weight | 20,2 kg |
| Shipping volume weight | 20,2 kg |

## Product information

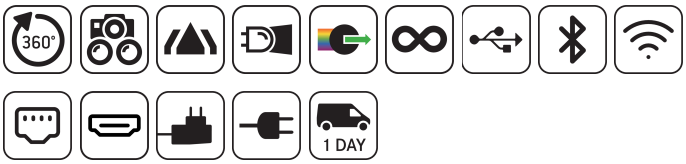
| | |
|---|---|
| GTIN/EAN number | 4045761490918 |
| Trade number | 90118000 |
| Warranty Time | 36 mon |
| REACH classification | no prohibited substances |

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## Pictograms

### STANDARD




### OPTION

