

KERN OBN 135T24 1

KERN

The digital laboratory assistant with infinity optical unit and professional Koehler illumination



Category

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

Approval

| | |
|---------|---|
| CE mark | ✓ |
|---------|---|

Display

| | |
|--------------------|-----------|
| Display resolution | 2048×1536 |
|--------------------|-----------|

Construction

| | |
|------------------------------|---|
| Dimension (W×D×H) | 390×235×620 mm |
| Optical system | Infinity |
| Tube type | Siedentopf |
| Tube type | Trinocular |
| Tube angle of inclination | 30° |
| Tube 360° rotation | ✓ |
| Lens quality | Infinity Plan |
| | 4× |
| | 10× |
| Standard objectives | 20× |
| | 40× |
| | 100× |
| Nosepiece screw-in locations | 5 |
| Dioptr adjustment | both-sided |
| Dioptr adjustment [Min] | -5 |
| Dioptr adjustment [Max] | 5 |
| Contrasting methods | Bright field Darkfield (optional) Polarisation (optional) |

| | |
|-------------------------------|---|
| | Fluorescent (optional) Phase contrast (optional) |
| Light distribution | 100:0 |
| Interpupillary distance [Max] | 75 mm |
| Interpupillary distance [Min] | 50 mm |
| Camera - Adapter type | C-Mount |
| Supported camera types | Microscope Camera |
| Cameras type | Tablet camera |
| Camera - Sensor type | Sony CMOS |
| Camera - Sensor size | 1/2,8" |
| Camera - Resolution | 5 MP |
| C-Mount focusable | ✓ |
| C-Mount magnification | 0,5 x |
| Camera - Colour depth | Colour |
| Camera - Framerate | 30 fps |
| Camera- Mounting types | C-mount thread |
| Camera - Exposure method | Rolling Shutter |

Ocular

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

Focussing

| | |
|---------------------|-------------------------------|
| Fine drive minimum | 0,002 mm |
| Torque regulation | ✓ |
| Field of view [Min] | 0,2 mm |
| Field of view [Max] | 5 mm |
| Focusing mechanism | coaxial coarse and fine drive |

Illumination

| | |
|--|-------------------|
| Illumination type incident light | none |
| Illumination intensity transmitted light | 3 W |
| Illumination type transmitted light | LED |
| Illuminance | Transmitted light |
| Field diaphragm | ✓ |
| Aperture diaphragm | ✓ |
| Koehler illumination | ✓ |
| Filter possible | ✓ |

Functions

| | |
|---------------------|--------------------------|
| Memory - total size | 128 GB |
| Interfaces | WiFi standard USB 2.0 |

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| | |
|------------------------------|-------------------|
| | HDMI |
| | MicroSD card slot |
| Supported operating systems | Android |
| Camera - Applicable software | integrated |

Power Supply

| | |
|---|-----------------------|
| Input voltage power supply / power [Max] | 100 - 240 V |
| Input voltage device / power [Max] | 100 - 240 V |
| Plug-in power supply type | Built-in power supply |
| Supplied power supply | Power supply unit |
| Plug-in power supply / adapter for countries - included with the delivery | EURO |
| | AUS |
| Plug-in power supply / adapter for countries - optional | UK |
| | US |
| | CH |

Environmental conditions

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

Packing & Shipping

| | |
|------------------------------|----------------|
| Readability force [d] (N) | 1 d |
| Dimensions packaging (W×D×H) | 590×440×390 mm |
| Net weight | 10,973 kg |
| Shipping method | Parcel service |
| Net weight approx. | 11 kg |
| Gross weight approx. | 14 kg |
| Shipping weight | 20,2 kg |

Pictograms