

# KERN OZL 468T24 1

# KERN

The flexible, affordable all-rounder with zoom function as a digital solution for schools, training companies, inspection authorities and laboratories.



## Category

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

## Approval

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

## Display

|                     |           |
|---------------------|-----------|
| Display type        | LCD touch |
| Display type        | LCD touch |
| Display screen size | 9,7"      |
| Display resolution  | 2048×1536 |

## Construction

|                               |                   |
|-------------------------------|-------------------|
| Dimension (W×D×H)             | 300×240×640 mm    |
| Optical system                | Greenough         |
| Tube type                     | Trinocular        |
| Tube angle of inclination     | 45°               |
| Tube 360° rotation            | ✓                 |
| Eyepieces fixed               | ✓                 |
| Diopter adjustment            | both-sided        |
| Diopter adjustment [Min]      | -5                |
| Diopter adjustment [Max]      | 5                 |
| Contrasting methods           | Bright field      |
| Light distribution            | 100:0             |
| Interpupillary distance [Max] | 75 mm             |
| Interpupillary distance [Min] | 55 mm             |
| Supported camera types        | Microscope Camera |
| Camera 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            |
| Eye point             | High Eye Point |
| Ocular magnifications | 10 x           |
| Ocular visual field   | 20 mm          |
| Ocular diameter       | 30 mm          |

## Focussing

|                     |              |
|---------------------|--------------|
| Torque regulation   | ✓            |
| Working distance    | 105 mm       |
| Zoom [Min]          | 0,7 x        |
| Zoom [Max]          | 4,5 x        |
| Magnification ratio | 6,4:1        |
| Field of view [Min] | 4,4 mm       |
| Field of view [Max] | 28,6 mm      |
| Focusing mechanism  | coarse drive |
| Sample height [Max] | 140 mm       |

## Illumination

|  |  |
|--|--|
| Illumination type incident light         | LED  |
| Illumination intensity incident light    | 3 W  |
| Illumination intensity transmitted light | 3 W  |
| Illumination type transmitted light      | LED  |
| Illuminance                              | Reflected light<br>Transmitted light               |
| Illumination dimmable                    | Incident light +<br>Transmitted light,<br>separate |

## Functions

|                              |   |
|------------------------------|---|
| Memory - total size          | 128 GB  |
| Interfaces                   | WiFi standard<br>USB 2.0<br>HDMI<br>MicroSD card slot |
| Supported operating systems  | Android   |
| Camera - applicable software | integrated  |

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## 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                   | 5,075 kg       |
| Shipping method              | Parcel service |
| Net weight approx.           | 6 kg           |
| Gross weight approx.         | 8 kg           |
| Shipping weight              | 20,2 kg        |

## Pictograms