

# KERN OBE 124T241

**KERN**

Our all-round compound microscope as a comprehensive digital solution for schools, training and laboratories



## Category

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

## Display

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

## Construction

|                           |                |
|---------------------------|----------------|
| Dimension (W×D×H)         | 360×235×540 mm |
| Optical system            | Finite         |
| Tube type                 | Trinocular     |
| Tube angle of inclination | 30°            |
| Tube 360° rotation        | ✓              |
| Tube type                 | Siedentopf     |
| Light distribution        | 20:80          |

|                     |                                      |
|---------------------|--------------------------------------|
| Contrasting methods | Bright field<br>Darkfield (optional) |
|---------------------|--------------------------------------|

|                               |                  |
|-------------------------------|------------------|
| Standard objectives           | 4×<br>10×<br>40× |
| Lens quality                  | achromatic       |
| Nosepiece screw-in locations  | 4                |
| Eyepieces fixed               | ✓                |
| Interpupillary distance [Min] | 50 mm            |
| Interpupillary distance [Max] | 75 mm            |
| Diopter adjustment            | one-sided        |
| Diopter adjustment [Min]      | -5               |
| Diopter adjustment [Max]      | 5                |
| Colour temperature            | 6000 K           |

## Functions

|                              |            |
|------------------------------|------------|
| Camera - Applicable software | integrated |
| Supported operating systems  | Android    |
| Memory - total size          | 128 GB     |

## Interface

|            |                                                       |
|------------|-------------------------------------------------------|
| Interfaces | WiFi standard<br>USB 2.0<br>HDMI<br>MicroSD card slot |
|------------|-------------------------------------------------------|

## Ocular

|                       |                |
|-----------------------|----------------|
| Ocular field width    | HWF            |
| Eye point             | High Eye Point |
| Ocular magnifications | 10 x           |
| Ocular visual field   | 18 mm          |
| Ocular diameter       | 23,2 mm        |

## Illumination

|                                          |                   |
|------------------------------------------|-------------------|
| Illuminance                              | Transmitted light |
| Illumination type incident light         | none              |
| Illumination type transmitted light      | LED               |
| Illumination intensity transmitted light | 3 W               |
| Illumination dimmable                    | Transmitted light |
| Filter possible                          | ✓                 |

## Focussing

|                     |                               |
|---------------------|-------------------------------|
| Field of view [Min] | 0,18 mm                       |
| Field of view [Max] | 4,5 mm                        |
| Torque regulation   | ✓                             |
| Fine drive minimum  | 0,002 mm                      |
| Focusing mechanism  | coaxial coarse and fine drive |

## Camera

|                          |                 |
|--------------------------|-----------------|
| Cameratype               | Tablet camera   |
| Camera - Resolution      | 5 MP            |
| Camera - Sensor type     | Sony CMOS       |
| Camera - Sensor size     | 1/2,8"          |
| Camera - Colour depth    | Colour          |
| Camera - Framerate       | 30 fps          |
| Camera- Mounting types   | C-mount thread  |
| Camera - Exposure method | Rolling Shutter |

## Power Supply

|                       |                   |
|-----------------------|-------------------|
| Supplied power supply | Power supply unit |
|-----------------------|-------------------|

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|                           |               |
|---------------------------|---------------|
| Plug-in 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 |
|------------------------------------------|-------------|

|                                    |          |
|------------------------------------|----------|
| Input voltage device / power [Max] | 5 V, 1 A |
|------------------------------------|----------|

## 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) | 560×440×330 mm |
|------------------------------|----------------|

|            |          |
|------------|----------|
| Net weight | 5,978 kg |
|------------|----------|

|                 |                |
|-----------------|----------------|
| Shipping method | Parcel service |
|-----------------|----------------|

|                    |      |
|--------------------|------|
| Net weight approx. | 6 kg |
|--------------------|------|

|                      |      |
|----------------------|------|
| Gross weight approx. | 8 kg |
|----------------------|------|

|                 |         |
|-----------------|---------|
| Shipping weight | 16,3 kg |
|-----------------|---------|

## Pictograms

### STANDARD



### OPTION

