

# Digital Microscope

## PCE-PBM 100



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The digital microscope impresses with its diverse application options in teaching and laboratory operations. Due to the technical equipment and great reliability, the digital microscope is particularly well suited to be used in advanced teaching facilities as well as in laboratories. The tripod from the digital microscope consists of the light yet strong material, aluminum, and is modern and ergonomically shaped. The eyepieces are very user-friendly, since both the diopter and the eye relief can be adjusted. This makes it easy for people who wear glasses to work with the digital microscope. There is also a rheostat on the side of our digital microscope with which the brightness can be easily adjusted. The LED light from the digital microscope is very durable and requires little maintenance. The color temperature is similar to that of sunlight, so an examination under the digital microscope is possible that is comparable to that under daylight.

The LCD screen built on the 3rd eyepiece enables viewing of the specimen through the eyepieces and simultaneously on the screen. This allows e.g. when used in schools, the teacher to quickly check the settings and the preparation. As a further option, the screen offers an output option to an external imaging device such as a large screen or projector.

- ▶ Abbe condenser with adjustable iris
- ▶ Diopter adjustment on the right eyepiece
- ▶ Adjustable eye relief
- ▶ Trinocular
- ▶ With cross table 125 x 125 mm
- ▶ 4 lenses up to 100x magnification
- ▶ LC Display 800 x 600 pixels
- ▶ Video output

**General Features PCE-PBM 100**

|                                     |                                                 |
|-------------------------------------|-------------------------------------------------|
| Eyepieces                           | WF 10x wide field eyepieces                     |
| Head                                | Trinocular                                      |
|                                     | 360° rotatable                                  |
|                                     | 30° angled view                                 |
|                                     | Right diopter adjustment                        |
|                                     | Interpupillary distance adjustable 55 ... 75 mm |
| Lenses                              | 4                                               |
| Magnification                       | 4x, 10x, 40x, 100x                              |
| Numerical aperture                  | 0.1 mm, 0.25 mm, 0.65 mm, 1.25 mm               |
| Focal length                        | 31.04 mm, 17.13 mm, 4.65 mm, 2.906 mm           |
| Working distance                    | 37.50 mm, 7.316 mm, 0.632 mm, 0198 mm           |
| Coverslip                           | 0.17 mm                                         |
| Total magnification eyepiece + lens | 40, 100, 400, 1000                              |
| Tube length                         | 160 mm                                          |
| Conjugate distance                  | 195 mm                                          |
| Cross table                         | 125 x 125 mm                                    |
| Shift                               | 40 x 60 mm                                      |
| Hub                                 | 14 mm                                           |

**Condenser**

|            |                     |
|------------|---------------------|
| Cover      | yes                 |
| Adjustment | yes                 |
| Filter     | yellow, green, blue |
| Lighting   | 3.5 V 1 W LED       |
| Dimmable   | yes                 |

**Technical Data Camera / Display  
Camera**

|                       |                  |
|-----------------------|------------------|
| Size                  | 13"              |
| Horizontal resolution | 700 lines        |
| Resolution            | 976 x 582 pixels |

**LCD Display**

|                                 |                                |
|---------------------------------|--------------------------------|
| Resolution                      | 800 x 600 pixels               |
| Colours                         | 16777216                       |
| Video output highest resolution | 1024 x 768 at 75 Hz            |
| Video Format                    | PAL, NTSC4.43, NTSC3.58, SECAM |

**General Technical Data**

|                          |                             |
|--------------------------|-----------------------------|
| Power supply             | 230 VAC 50 Hz               |
| Environmental conditions | 0 ... 40 °C / 85 % RH. max. |
| Dimensions               | 550 x 320 x 210 mm          |
| Weight                   | 5100 g                      |

Subject to change