



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