



Model:
B-150DB

Typology:
EDUCATIONAL DIGITAL MICROSCOPE

Description:

Educational digital microscope for routine applications.

Dye-cast frame, with high stability and ergonomy, for transmitted light observation.

Illumination	Light source type: X-LED ¹ ; light intensity control using a knob on left side of the frame. LED power: 1 W. Color temperature: 6,300 K. LED average lifetime approx.: 50,000 h. External power supply 100/240 Vac, 50/60 Hz, output: 5 Vdc 500 mA.
Observation Modes	Brightfield.
Focusing	Coaxial coarse and fine focusing mechanism (graduated, 0.004 mm) with upper stop, to prevent the contact between objective and specimen. Adjustable tension of coarse focusing knob.
Stage	Double layer with mechanical sliding stage, size 125x116 mm, X-Y movement range 76x30 mm. Specimen holder for one slide. Vernier scale on the two axes, accuracy 0.1 mm.
Nosepiece	Quadruple revolving nosepiece, rotation on ball bearings.
Head	Binocular digital observation head, inclined 30° and rotatable 360°. Diopter adjustment on left eyepiece. Interpupillary adjustment 48-75 mm.
Eyepieces	Wide Field, WF 10x/18.
Objectives	HC (high contrast) objectives with mechanical tube length 160 mm, made by following objectives: - HC (high contrast) 4x/0.10, W.D. 18 mm - HC (high contrast) 10x/0.25, W.D. 7 mm - HC (high contrast) 40x/0.65, W.D. 0.53 mm - HC (high contrast) 100x/1.25 (oil), W.D. 0.13 mm (oil immersion) All objectives are treated with an anti-fungus treatment.
Condenser	Abbe condenser, N.A. 1.2 precentered.
Image format	2048x1536 pixel.
Pixel size	2.2x2.2 um.
Sensor	1/2.5" CMOS.
Image format	4/3.
Output	USB port.
Frame Rate	4 fps (2048x1536), 8 fps (1280x1024), 30 fps (640x480).
S/N RATIO	40 dB.
Dynamic Range	66.5 dB.
Exposure Time	15 s - 1/1500 s.
Effective digits	12 bit - on chips.
Sensitivity	0.53 V/lux-sec (550 nm).
Calibration Slide	No.
System requirements	Win XP / Win Vista / Win 7 / Win 8 / Win 10 (32 o 64 bit) USB 2.0.
Software	OPTIKA Vision Lite.
Driver	Camera-X3: microsoft driver, Twain.
Control parameters	Brightness, tonality, contrast, saturation, gamma, EV exposure.
Dimensions	HEIGHT: 350 mm WIDTH: 170 mm DEPTH: 210 mm WEIGHT: 4 kg
Accessories	User manual, dust cover, 1.8 m USB cable, CD-ROM.