

Model:
DBL124 - 630-1623

Typology:
EDUCATIONAL DIGITAL MICROSCOPE

Description:
Educational digital microscope for routine applications.
Dye-cast frame, with high stability and ergonomy, for transmitted light observation.

Model	Binocular with double layer stage; objectives 4x, 10x, 40x, 100x
Illumination	Light source type: white LED; light intensity control using a knob on left side of the frame. LED power: 1W. Color temperature: 6300K LED average lifetime approx.: 50.000h External power supply 100/240Vac, 50/60Hz, output: 5Vdc 500mA.
Observation Modes	Brightfield
Focusing	Coaxial coarse and fine focusing mechanism (graduated, 0.002mm) 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 125x116mm, X-Y movement range 76x30. 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	Widefield eyepieces WF10X/18 with field number 18mm.
Objectives	Achromatic objectives with mechanical tube lenght 160 mm, made by following objectives: -) Achromatic DIN 4X, A.N. 0.10, W.D. 18 mm -) Achromatic DIN 10X, A.N. 0.25, W.D. 7 mm -) Achromatic DIN 40X, A.N. 0.65, W.D. 0,53 mm -) Achromatic DIN 100X, A.N. 1,25, 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	2.2x2.2um
Sensor	1/2.5”CMOS
Image format	4/3
Output	USB port
Frame Rate	4 FPS (2048x1536), 8 FPS (1280x1024), 30FPS (640x480)
S/N RATIO	40dB
Dynamic Range	66.5dB
Exposure Time	15s - 1/1500s
Effective digits	12bit - on chips
Sensitivity	0.53 V/lux-sec (550nm)
Calibration Slide	No
System requirements	Windows XP, Vista, Win7, Win8, 32/64bit., USB 2.0
Software	Visicam
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, 1,8m USB cable, CD-ROM.