



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.*

<b>Model</b>	Binocular with double layer stage; objectives 4x, 10x, 40x, 100x
<b>Illumination</b>	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.
<b>Observation Modes</b>	Brightfield
<b>Focusing</b>	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.
<b>Stage</b>	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.
<b>Nosepiece</b>	Quadruple revolving nosepiece, rotation on ball bearings.
<b>Head</b>	Binocular digital observation head, inclined 30° and rotatable 360°. Diopter adjustment on left eyepiece. Interpupillary adjustment 48-75 mm.
<b>Eyepieces</b>	Widfield eyepieces WF10X/18 with field number 18mm.
<b>Objectives</b>	Achromatic objectives with mechanical tube length 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.
<b>Condenser</b>	Abbe condenser, N.A. 1.2 precentered.
<b>Image format</b>	2048x1536 pixel.
<b>Pixel size</b>	2.2x2.2um
<b>Sensor</b>	1/2.5"CMOS
<b>Image format</b>	4/3
<b>Output</b>	USB port
<b>Frame Rate</b>	4 FPS (2048x1536), 8 FPS (1280x1024), 30FPS (640x480)
<b>S/N RATIO</b>	40dB
<b>Dynamic Range</b>	66.5dB
<b>Exposure Time</b>	15s - 1/1500s
<b>Effective digits</b>	12bit - on chips
<b>Sensitivity</b>	0.53 V/lux-sec (550nm)
<b>Calibration Slide</b>	No
<b>System requirements</b>	Windows XP, Vista, Win7, Win8, 32/64bit., USB 2.0
<b>Software</b>	OPTIKA Vision Lite
<b>Driver</b>	Camera-X3: microsoft driver, Twain
<b>Control parameters</b>	Brightness, tonality, contrast, saturation, gamma, EV exposure
<b>Dimensions</b>	HEIGHT: 350 mm WIDTH: 170 mm DEPTH: 210 mm WEIGHT: 4 kg
<b>Accessories</b>	User manual, dust cover, 1,8m USB cable, CD-ROM.