



Model:  
**B-150DM**

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>	<b>B-150DM:</b> monocular with double layer stage; objectives 4x, 10x, 40x
<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>	Monocular digital observation head, inclined 45° and rotatable 360°.
<b>Eyepieces</b>	Widefield eyepieces WF10X/18 with field number 18mm.
<b>Objectives</b>	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 All objectives are treated with an anti-fungus treatment.
<b>Condenser</b>	Abbe condenser, N.A. 1.2 precentered
<b>Image format</b>	1280X1024 pixel.
<b>Pixel size</b>	2.8X2.8µm
<b>Sensor</b>	1/3.2"CMOS
<b>Image format</b>	5/4
<b>Output</b>	USB port
<b>Frame rate</b>	15 FPS (1280x1024) 30 FPS (640x480)
<b>S/N RATIO</b>	42.3dB
<b>Dynamic Range</b>	71dB
<b>Exposure Time</b>	20s - 1/1000s
<b>Effective digits</b>	10bit - on chip
<b>Sensitivity</b>	1.0 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>	H1C: 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