



Model:

**B-500TiFL**

Typology:

**RESEARCH MICROSCOPE**

**Description:**

*Laboratory microscope for research applications.*

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

<b>Illumination</b>	<p><b>Transmitted Light:</b>          Light source type X-LED with white LED; light intensity control using a knob on left side of the frame.          LED power 3.6W, comparable to an halogen bulb 35W.          Color temperature: 6300K          LED average lifetime approx.: 50.000h.          The light exit can be used as a filter holder for additional filters (blue, yellow, frosted).          Voltage: 110/230Vac, 50/60Hz, 0.4/0.8A; Fuse: T3.15A 250V          Max power required: 7W</p> <p><b>Reflected Light:</b>          Mercury burner 100W HBO, light controlled by an external power supply.          Bulb average lifetime approx.: 300 hours.          Voltage: 100/240Vac, 50/60Hz Fuse: T3.15A 250V          Max power required: 130W</p>
<b>Observation Modes</b>	<p>Brightfield, Fluorescence B and G          Fluorescence B: EX 450-500, DM 505, EM 510-560;          Fluorescence G: EX 530-590, DM 595, EM 610-680;          Fluorescence UV (optional): EX: 325-375 , DM 400 , EM 420LP;          Fluorescence V (optional): EX 385-425, DM 440, EM 455LP.</p>
<b>Fluorochromes</b>	<p>Excitation B:          Acridine Yellow, Acridine Orange, Auramine, DiO, DTAF, FITC, GFP, YFP, ecc.          Excitation G:          DiI; Blu Evans, Feulgen, Rhodamine, Texas Red, TRITC, PI, ecc.          Excitation UV (optional):          AMCA, AutoFluorescence, BAO, BFP, Blu Cascade, DANS, DAPI, Hoechst, Indo-1, SITA, ecc.          Excitation V (optional):          ANS, Fluorescamine, Catecholamine, ecc.</p>
<b>Focusing</b>	<p>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.</p>
<b>Stage</b>	<p>Double layer with mechanical sliding stage, size 175x145mm, X-Y movement range 76x52, specimen holder for two slides.          Vernier scale on the two axes, accuracy 0,1 mm.</p>
<b>Nosepiece</b>	<p>Quintuple revolving nosepiece, rotation on ball bearings.</p>
<b>Head</b>	<p>Trinocular observation head, inclined 30° and rotatable 360°.          Diopter adjustment on left eyepiece sleeve.          Interpupillary adjustment 55-75 mm.</p>
<b>Objectives</b>	<p>Infinity corrected optical system IOS (Infinity Optical System).          Plan-achromatic IOS FLUO objectives:          -) Plan-achromatic IOS 4X, A.N. 0.13, W.D. 4,7 mm          -) Plan-achromatic IOS 10X, A.N. 0.30, W.D. 4,1 mm          -) Plan-achromatic IOS 20X, A.N. 0.50, W.D. 1,45 mm          -) Plan-achromatic IOS 40X, A.N. 0.75, W.D. 0,50 mm          All objectives are treated with an anti-fungus treatment.</p>
<b>Condenser</b>	<p>Swing-out type, A.N. 0.90 with centering system.</p>

<b>Eyepieces</b>	Wide field eyepieces WF10X/22 with field number 22.
<b>Dimensions</b>	HEIGHT: 480 mm (with attachment) / 435 mm (without attachment) WIDHT: 245 mm DEPTH: 380 mm WEIGHT: 9 kg
<b>Accessories</b>	Instruction manual and dust cover included

**OPTIKA  
B-500TiFL**