: **Model B-383LD1**

Typology:
ROUTINE MICROSCOPE

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

Illumination	Transmitted light: Light source type X-LED³ with manual brightness control. Epi-fluorescence: High-power blue LED with manual brightness control. LED average lifetime: 50000h.
Observation modes	Brightfield, Fluorescence B Fluorescence B: EX 460-490, DM 505, EM 515LP
Filter Set	**1 position fluorescence filter holder:** Excitation B: Acridine Yellow, Acridine Orange, Auramine, DiO, DTAF, FITC, GFP, YFP, ecc.
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 mechanical sliding stage, dimensions 188x150mm, moving range 78x54mm. Belt-drive in X direction. Vernier scale on the two axes, accuracy 0,1 mm.
Nosepiece	Quintuple revolving nosepiece, rotation on ball bearings.
Head	Trinocular observation head, inclined 30° and rotatable 360°. Diopter adjustment on both eyepieces. Interpupillary adjustment 48-75 mm. Fixed photo port, 50/50 ratio.
Eyepieces	Widefield eyepieces WF10X/20 with field number 20.
Objectives	E-PLAN objectives IOS (infinity corrected), made by: -) E-PLAN IOS 4X, N.A. 0.10, W.D. 16.8 mm -) E-PLAN IOS 10X, N.A. 0.25, W.D. 5.8 mm -) E-PLAN IOS 20x, N.A. 0,40, W.D. 1,4 mm -) E-PLAN IOS 40X, N.A. 0.65, W.D. 0.43 mm -) E-PLAN IOS 100X, N.A. 1.25, W.D. 0.13 mm (oil immersion) All objectives are treated with an anti-fungus treatment.
Condenser	Abbe condenser, N.A. 1,25 with centering system.
Dimensions	HEIGHT: 480 mm (without attachment) / 592 mm (with attachment) WIDTH: 210 mm DEPTH: 370 mm WEIGHT: 5 kg
Accessories	Instruction manual and dust cover included.

02 33943004/01112221096/01011811884/01223415321 Rev.06

: Model

B-383LD2

Typology:

ROUTINE MICROSCOPE

Description:

Educational and laboratory microscope for routine applications.
Dye-cast frame, with high stability and ergonomy, for transmitted light and fluorescence reflected light observation.

Illumination	Transmitted light: Light source type X-LED³ with manual brightness control. Epi-fluorescence: High-power white LED with manual brightness control. LED average lifetime: 50000h.
Observation modes	Brightfield, Fluorescence Fluorescence B: EX 460-490, DM 505, EM 515LP Fluorescence G: EX 510-550, DM 570, EM 590LP
Filter Set	**2 positions fluorescence filter holder:** Excitation B: Acridine Yellow, Acridine Orange, Auramine, DiO, DTAF, FITC, GFP, YFP, ecc. Excitation G: DiL; Blu Evans, Feulgen, Rhodamine, Texas Red, TRITC, PI, etc.
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 mechanical sliding stage, dimensions 188x150mm, moving range 78x54mm. Belt-drive in X direction. Vernier scale on the two axes, accuracy 0,1 mm.
Nosepiece	Quintuple revolving nosepiece, rotation on ball bearings.
Head	Trinocular observation head, inclined 30° and rotatable 360°. Diopter adjustment on both eyepieces. Interpupillary adjustment 48-75 mm. Fixed photo port, 50/50 ratio.
Eyepieces	Widefield eyepieces WF10X/20 with field number 20.
Objectives	E-PLAN objectives IOS (infinity corrected), made by: -) E-PLAN IOS 4X, A.N. 0.10, W.D. 16,8 mm -) E-PLAN IOS 10X, A.N. 0.25, W.D. 5,8 mm -) E-PLAN IOS 20x, A.N., 0,40, W.D. 1,4 mm -) E-PLAN IOS 40X, A.N. 0.65, W.D. 0,43 mm -) E-PLAN IOS 100X, N.A. 1.25, W.D. 0.13 mm (oil immersion) All objectives are treated with an anti-fungus treatment.
Condenser	Abbe condenser, N.A. 1,25 with centering system.
Dimensions	HEIGHT: 480 mm (without attachment) / 592 mm (with attachment) WIDTH: 210 mm DEPTH: 370 mm WEIGHT: 5 kg
Accessories	Instruction manual and dust cover included.

02 33943004/01112221096/01011811884/01223415321 Rev.04

: Model

B-383FL

Typology:

ROUTINE MICROSCOPE

Description:

Educational and laboratory microscope for routine applications.
Dye-cast frame, with high stability and ergonomy, for transmitted light and fluorescence reflected light observation.

Illumination	Transmitted light: Light source type X-LED³ with manual brightness control. LED power: 3.6W, comparable to a 50W halogen bulb. Color temperature: 6300K LED average lifetime: 50000h. Power supply: Input 110/240Vac, 50/60Hz; Output 6Vdc 1A Max. required power: 6W Epi-fluorescence: HBO 100W high pressure mercury bulb. Bulb average lifetime: approx. 400h. Input voltage: 100/240Vac, 50/60Hz Max. required power: 130W
Observation modes	Brightfield, Fluorescence Fluorescence B: EX 460-490, DM 505, EM 515LP Fluorescence G: EX 510-550, DM 570, EM 590LP
Fluorochromes	**2 positions fluorescence filter holder:** Excitation B: Acridine Yellow, Acridine Orange, Auramine, DiO, DTAF, FITC, GFP, YFP, ecc. Excitation G: DiL; Blu Evans, Feulgen, Rhodamine, Texas Red, TRITC, PI, etc.
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 mechanical sliding stage, dimensions 188x150mm, moving range 78x54mm. Belt-drive in X direction. Vernier scale on the two axes, accuracy 0,1 mm.
Nosepiece	Quintuple revolving nosepiece, rotation on ball bearings.
Head	Trinocular observation head, inclined 30° and rotatable 360°. Diopter adjustment on both eyepieces. Interpupillary adjustment 48-75 mm. Fixed photo port, 50/50 ratio.
Eyepieces	Widefield eyepieces WF10X/20 with field number 20.
Objectives	E-PLAN objectives IOS (infinity corrected), made by: -) E-Plan IOS 4X, N.A. 0.10, W.D. 16.8 mm -) E-Plan IOS 10X, N.A. 0.25, W.D. 5.8 mm -) E-Plan IOS 20x, N.A. 0,40, W.D. 1,4 mm -) E-Plan IOS 40X, N.A. 0.65, W.D. 0.43 mm -) E-Plan IOS 100X, N.A. 1.25, W.D. 0.13 mm (oil immersion) All objectives are treated with an anti-fungus treatment.
Condenser	Abbe condenser, N.A. 1,25 with centering system.
Dimensions	HEIGHT: 480 mm (without attachment) / 592 mm (with attachment) WIDTH: 210 mm DEPTH: 370 mm WEIGHT: 6 kg
Accessories	Instruction manual and dust cover included.

Rev. 05

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.

Illumination	**Transmitted Light:** 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 50W. 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 **Reflected Light:** 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
Observation Modes	Brightfield, Fluorescence B and G Fluorescence B: EX 450-490, DM 495, EM 500-550; Fluorescence G: EX 540-580, DM 585, EM 607-683; Fluorescence UV (optional): EX: 325-375 , DM 415, EM 435LP; Fluorescence V (optional): EX 390-420, DM 440, EM 450LP.
Filter Set	**4 positions fluorescence filter holder:** Excitation B: Acridine Yellow, Acridine Orange, Auramine, DiO, DTAF, FITC, GFP, YFP, ecc. Excitation G: DiL; 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.
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 175x145mm, X-Y movement range 76x52, specimen holder for two slides. Vernier scale on the two axes, accuracy 0,1 mm.
Nosepiece	Quintuple revolving nosepiece, rotation on ball bearings.
Head	Trinocular observation head, inclined 30° and rotatable 360°. Diopter adjustment on left eyepiece sleeve. Interpupillary adjustment 55-75 mm.
Objectives	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.
Condenser	Swing-out type, A.N. 0.90 with centering system.
Eyepieces	Wide field eyepieces WF10X/22 with field number 22.
Dimensions	HEIGHT: 480 mm (with attachment) / 435 mm (without attachment) WIDHT: 245 mm DEPTH: 380 mm WEIGHT: 9 kg
Accessories	Instruction manual and dust cover included

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