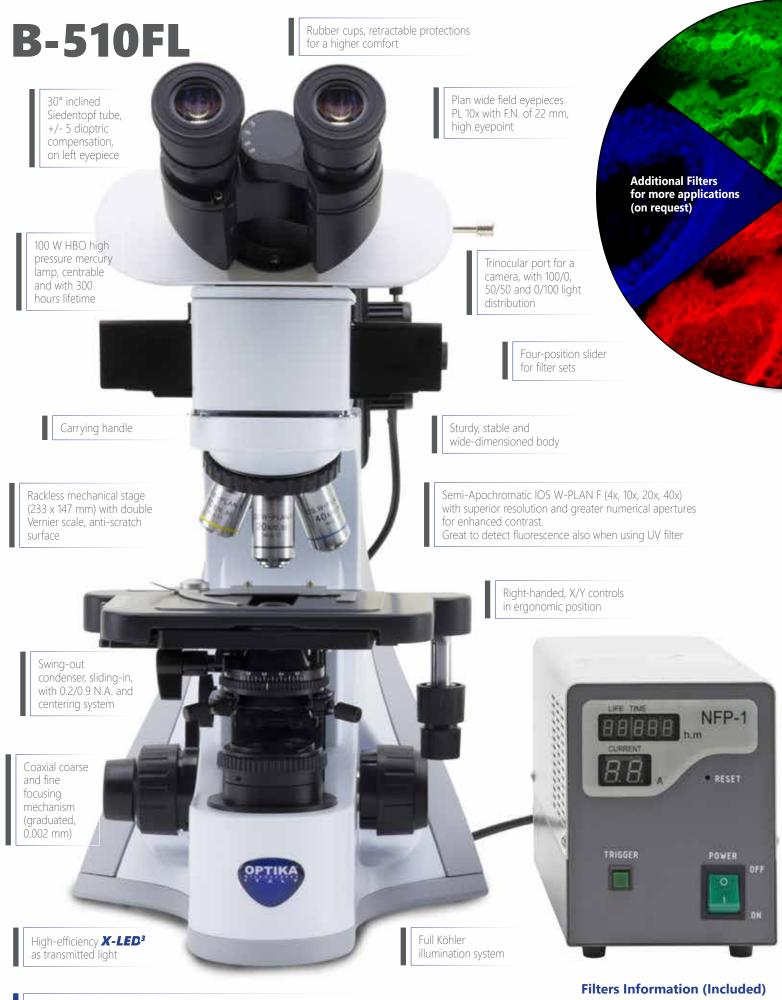


OPTIKA B-510 fluorescence microscopes are designed to provide premium performance in the observation of the fluorophores with compact and efficient epi-fluorescence attachments, powered by HBO (B-510FL) or LED (B-510LD1 & B-510LD2) and ensuring easy switching of fluorescence filters. Equipped with the state-of-the-art, exclusive X-LED³ transmitted illumination system, this series offers user-friendly operations, robustness, durability and superb resolution, delivering contrasted and sharp images through the impressive optics and the Köhler diaphragm.

Suitable for routine and research applications, depending on the model.



The most used and diffused method, worldwide, for research applications with fluorescence, capable of supporting additional and custom filters (as optional), such as V and UV for ANS, Fluorescamine, Catecholamine, AMCA, AutoFluorescence, BAO, BFP, Blu Cascade, DANS, DAPI, Hoechst, Indo-1, SITA, and many others.

	Excitation filter (nm)	Dichroic mirror cut-off (nm)	Emission filter (nm)
B (Blue)	460 - 490	505	515LP
G (Green)	510 - 550	570	590LP

Blue Filter for Acridine Yellow, Acridine, FITC, Orange, Auramine, DiO, DTAF, GFP,

Green Filter for DiL, Blu Evans, Feulgen, TRITC, Rhodamine, Texas Red, PI, etc.

> 3.6 W high efficiency blue (LD1) or white (LD2) LED, pre-centered and with >65.000 hours lifetime

Rubber cups, retractable protections for a higher comfort



Plan wide field eyepieces PL 10x with F.N. of 22 mm, high eyepoint

> Trinocular port for a camera, with 100/0, 50/50 and 0/100 light distribution

30° inclined Siedentopf tube, +/- 5 dioptric compensation, on left eyepiece

Three-position slider for filter sets

Sturdy, stable and

wide-dimensioned body

Rackless mechanical stage (233 x 147 mm) with double Vernier scale, anti-scratch surface

Right-handed, X/Y controls in ergonomic position

Full Köhler illumination system

High-efficiency **X-LED**³ as transmitted light

Carrying handle

High contrast and resolution IOS W-PLAN (4x, 10x, 40x, 100x). Good to operate in fluorescence when using blue and green filters

Swing-out condenser, sliding-in, with 0.2/0.9 N.A. and centering system

Coaxial coarse and fine focusing mechanism (graduated, 0.002 mm)

The most conventient and user-friendly method for routine applications, eliminating warm-up/cool-down times, lamp centering and replacing.

B-510LD1 is ideal for efficient and fast detection of tuberculosis & malaria.

		Filters Informa	ition (included)	
Excitation filter	Dichroic mirror	Emission filter	Supplied	
(nm)	cut-off (nm)	(nm)	with	

B (Blue) 460 - 490 505 515LP B-510LD1 / LD2 G (Green) 510 - 550 570 590LP B-510LD2 only

B-510FL - Technical Datasheet	B-510LD1 - Technical Datasheet	B-510LD2 - Technical Datasheet
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Observation Methods	Brightfield, fluorescence (B & G filters)	Brightfield, fluorescence (B filter)	Brightfield, fluorescence (B & G filters)		
Head	Trinocular, 30° inclined, splitting ratio eyepieces/photo tube: 0% - 100% / 50% - 50% / 100% - 0%				
Eyepieces	Plan wide field, PL 10x/22, high eyepoint, with dioptric adjustment on left eyepiece				
Nosepiece	Quintuple, reversed				
Objectives	IOS W-PLAN F 4x, 10x, 20x, 40x	IOS W-PLAN 4x, 10x	, 40x, 100x (oil)		
Stage	Rackless, mechanical, 233x147 mm, 78x54 mm movement range				
Focusing	Coaxial coarse & fine (200µm/turn), upper stop, adjustable tension				
Transmitted Light & Diaphragms	High-efficiency X-LED ³ (3.6 W), manual brightness control. Köhler illumination system with field diaphragm				
Incident Light & Diaphragms	High-pressure mercury lamp (100 W)	High-efficiency LED (3.6 W, blue LED on LD1; whi	nite LED on LD2), manual brightness control		
Condenser	N.A. 0.2/0.9, swing-out, sliding-in and with centering system				

Accessories		B-510FL	B-510LD1	B-510LD2
M-1001	PL10x/22 eyepieces (pair), high eyepoint, with rubber cup (retractable)	•		•
M-1003	PL15x/16 eyepieces (pair), high eyepoint			
M-781	PL10x/22 eyepiece, high eyepoint, with micrometric scale (10mm/100um) & rubber cup (retractable)			
M-690	Eyecups (pair)			
M-1049	IOS W-PLAN objective 2x/0.08 (only on newly purchased microscopes)			
M-1060	IOS W-PLAN F objective 4x/0.13	•		
M-1061	IOS W-PLAN F objective 10x/0.30	•		
M-1062	IOS W-PLAN F objective 20x/0.50	•		
M-1063	IOS W-PLAN F objective 40x/0.75	•		
M-1064	IOS W-PLAN F objective 100x/1.30 (oil)			
M-1104	IOS LWD U-PLAN MET objective 100x/0.80			
M-1125	IOS W-PLAN objective 4x/0.10		•	•
M-1126	IOS W-PLAN objective 10x/0.25		•	•
M-1127	IOS W-PLAN objective 20x/0.40			
M-1128	IOS W-PLAN objective 40x/0.65			
M-1129	IOS W-PLAN objective 60x/0.80			
M-1130	IOS W-PLAN objective 100x/1.25 (oil)		•	•
M-1131	IOS W-PLAN POL objective 4x/0.10			
M-1132	IOS W-PLAN POL objective 10x/0.25			
M-1133	IOS W-PLAN POL objective 20x/0.45			
M-1134	IOS W-PLAN POL objective 40x/0.65			
M-1135	IOS W-PLAN POL objective 60x/0.80			
M-336	IOS W-PLAN MET objective 5x/0.12			
M-339	IOS W-PLAN MET objective 20x/0.40			
M-175	Rotating table for polarising set			
M-635	Heating stage, with digital temperature controller (only on newly purchased microscopes)			
M-181	Complete Phase Contrast Set with IOS W-PLAN obj. 10x, 20x, 40x, 100x and BF/DF/PH condenser			
M-185	Darkfield condenser for dry objectives			
M-637	Fluorecence filterset V (filterblock not needed)			
M-638	Fluorescence filterset UV (filterbock not needed)			
M-636	Polarising set (filters only) for B-510 series			
M-977	Green filter, 45 mm diameter			
M-979	Yellow filter, 45 mm diameter			
M-989	Frosted glass filter, 45 mm diameter			
M-113.1	Ring adapter, 30mm (for monocular and binocular microscopes)			
M-620	0.35x focusable C-Mount adapter (biological microscopes)			
M-620.1	0.5x focusable C-Mount adapter (biological microscopes)			
M-620.2	0.65x focusable C-Mount adapter (biological microscopes)			
M-620.3	1x focusable C-Mount adapter (biological microscopes)			
M-173	Photo adapter for APS-C and Full Frame Reflex cameras (M-699 is needed)			
M-699	Universal adapter for M-173			
M-151	HBO100W high-pressure mercury bulb for fluorescence			
15008	Immersion oil, 10ml			
15104	Cleaning kit			
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 $Micrometric \ slide, \ 26x76mm, \ with \ 2\ X\ scales\ (1mm/100 div.\ for\ biological\ /\ 10mm/100 div.\ for\ stereo)$

TNT dust cover, medium (B-190/290TB & B-380 & B-510) 600(l)x550(h) mm

Centering telescope, 30mm diameter

IQ/OQ/PQ Manual for B-510 series

M-005

VP-510

DC-003

M-1004.N