

## B-510BF

**OPTIKA B-510BF** represents the ideal, ultra-modern, advanced routine microscope for efficient analysis in transmitted light applications, equipped with the state-of-the-art, exclusive X-LED<sup>3</sup> illumination system, designed by OPTIKA. Carefully engineered considering all the relevant aspects for users, this series offers user-friendly operations, robustness, durability and superb resolution, delivering contrasted and sharp images through the impressive optics and the Köhler diaphragm.

# B-510BF

Rubber cups, retractable protections  
for a higher comfort

Exclusive,  
state-of-the-art  
illumination system

## X-LED<sup>3</sup>

*(3.6 W) as transmitted light*

Achieve unmatched colour fidelity  
and brightness with daylight  
white colour temperature  
(6,300 K) and cut electricity  
bills by 90%, saving  
money and  
energy.

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

Trinocular port for a  
camera, with 50/50  
light distribution

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

Carrying handle

Sturdy, stable and  
wide-dimensioned body

High contrast and resolution IOS W-PLAN  
(4x, 10x, 40x, 100x)

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

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

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

Right-handed, X/Y controls  
in ergonomic position

High-efficiency **X-LED<sup>3</sup>**  
as transmitted light for brightfield  
observation

Full Köhler illumination system



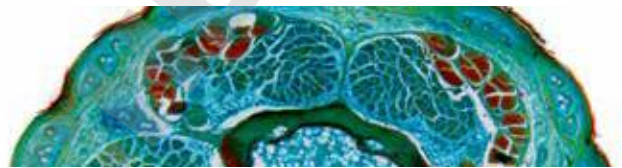




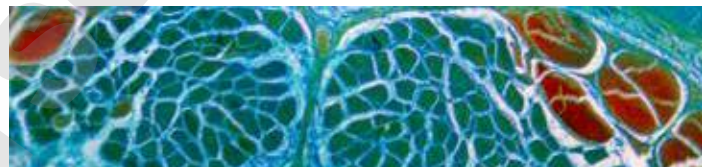
#### IOS W-PLAN Objectives

Infinity Corrected Optics (IOS) providing the best cost-effective choice for high contrast and resolution, matching all the requirements of labs requiring good quality routine optics. Designed to ensure field flatness up to F.N. 22.

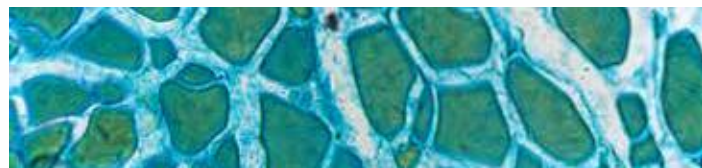
Perform a proper setting of the Köhler illumination, through the field and aperture diaphragms to have the specimen perfectly illuminated, enhancing the contrast and resolution of your image.



Mouse tail cactus, Brightfield, 4x



Mouse tail cactus, Brightfield, 10x



Mouse tail cactus, Brightfield, 40x



With multi-head observation systems, up to 5 people/colleagues can observe the same image on B-510. Ideal for teaching and training students, especially in the medical field.

The main observer and additional viewers will benefit of an extremely homogeneous light conditions, with a three-colour pointer with settable intensity to highlight points of interest.

Model: B-510-3

## B-510BF - Technical Datasheet

Observation Methods	Brightfield
Head	Trinocular, 30° inclined, splitting ratio eyepieces/photo tube: 50% - 50%
Eyepieces	Plan wide field, PL 10x/22, high eyepoint, with dioptic adjustment on left eyepiece
Nosepiece	Quintuple, reversed
Objectives	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 Illumination & Diaphragms	High-efficiency X-LED <sup>3</sup> (3.6 W), manual brightness control. Köhler illumination system with field diaphragm
Condenser	N.A. 0.2/0.9, swing-out, sliding-in and with centering system

## Accessories

Included ■ Optional □

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/100µm) & rubber cup (retractable)	□
M-1049	IOS W-PLAN objective 2x/0.08	□
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-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-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-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	Universal adapter for M-173	□
M-1004.N	Centering telescope, 30mm diameter	□
M-005	Micrometric slide, 26x76mm, with 2 X scales (1mm/100div. for biological / 10mm/100div. for stereo)	□
M-636	Polarising set (filters only) for B-510 series	□
M-1037	Gout analysis kit	□
M-977	Green filter, 45 mm diameter	□
M-979	Yellow filter, 45 mm diameter	□
M-989	Frosted glass filter, 45 mm diameter	□
M-690	Eyecups (pair)	□
15104	Cleaning kit	□
15008	Immersion oil, 10ml	□
VP-510	IQ/OQ/PQ Manual for B-510 series	□
DC-003	TNT dust cover, medium 600(l)x550(h) mm	■