



B-510PH

B-510ASB

OPTIKA B-510PH is an ultra-modern, advanced routine microscope for transmitted light applications, dedicated to phase contrast observation and ensuring high image sharpness even when processing complex specimens.

B-510ASB works accordingly to the international regulations about Asbestos testing, with focusable 12.5x eyepieces, and a Walton & Becket graticule to perform perfect fibers analysis at a glance.

Both versions are equipped with impressive optics, Köhler diaphragm and the state-of-the-art, exclusive X-LED.

B-510PH

Rubber cups, retractable protections for a higher comfort

Exclusive, state-of-the-art illumination system

X-LED³

(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

Sturdy, stable and wide-dimensioned body

Carrying handle

High contrast and resolution IOS W-PLAN PH (10x, 20x, 40x, 100x) for phase contrast

5-position rotating condenser for brightfield, phase contrast and darkfield position for dry objectives, 1.25 N.A. and centering system

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

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

Right-handed, X/Y controls in ergonomic position

High-efficiency X-LED³ as transmitted light

Full Köhler illumination system



B-510ASB

Plan wide field eyepieces 12.5x with F.N. of 18 mm, high eyepoint, with +/- 5 dioptic compensation on both, one with Walton&Beckett reticle for Asbestos

Plan wide field eyepieces PL 10x with F.N. of 22 mm, high eyepoint, rubber cups, retractable protections for a higher comfort (also included)

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

Carrying handle

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

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

Cleared membrane filter containing Amosite Asbestos fibers, Phase Contrast, 40x

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

Sturdy, stable and wide-dimensioned body

Sliding-in Abbe condenser, with 1.25 N.A. and centering system. Phase contrast slider included

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

High-efficiency **X-LED³** as transmitted light



B-510PH - Technical Datasheet
B-510ASB - Technical Datasheet

Observation Methods	Brightfield, phase contrast	
Head	Trinocular, 30° inclined, splitting ratio eyepieces/photo tube: 50% - 50%	
Eyepieces	Plan wide field, PL 10x/22, high eyepoint, dioptic adjustment	- Plan wide field, PL 10x/22, high eyepoint, dioptic adjustment - 12.5x/18, high eyepoint, dioptic adjustment, one W&B reticle
Nosepiece	Quintuple, reversed	
Objectives	IOS W-PLAN PH 10x, 20x, 40x, 100x	IOS W-PLAN 4x, 10x, 100x; IOS W-PLAN PH 40x
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 ² (3.6 W), manual brightness control. Köhler illumination system with field diaphragm	
Condenser	N.A. 1.25, with brightfield, darkfield (dry) and phase contrast (10x/20x, 40x, 100x) position	N.A. 1.25, Abbe with brightfield and phase contrast (40x) position, sliding-in and with centering system
Accessories Included	Centering telescope and green filter included	

Included ■ Optional □

Accessories
B-510PH **B-510ASB**

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)	□	□
AA-01	12.5x/18 eyepieces (pair), high eyepoint, with dioptic adjustment, one with W&B reticle for Asbestos		■
AA-02	HSE-NPL Mark II Phase Contrast Test Slide, with Certification		□
M-1125	IOS W-PLAN objective 4x/0.10		■
M-1126	IOS W-PLAN objective 10x/0.25		■
M-1130	IOS W-PLAN objective 100x/1.25 (oil)		■
M-1120.N	IOS W-PLAN PH objective 10x/0.25	■	
M-1121.N	IOS W-PLAN PH objective 20x/0.40	■	
M-1122.N	IOS W-PLAN PH objective 40x/0.65	■	■
M-1123.N	IOS W-PLAN PH 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	■	■

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