



B-810 & B-1000



Research Lab Upright Microscopes

OPTIKA Microscopes, thanks to the long experience achieved in microscopy development, has conceived the new B-1000: a major leap in our technological offer. As a flagship instrument, B-1000 originates from customer most demanding feedbacks and needs. Its modularity and versatility will allow to find the perfect place in any clinical or basic reasearch laboratory. All controls are easily accessible and comfortable also for extended periods of observation.

B-1000 is built on IOS Infinity Corrected optical system, which gives both top-notch optical performances, and the possibility to extend your instrument with the broad range of accessories and modules. X-LED illumination is the best solution to have pure white light, very intense even at higher magnification, and optimum power efficiency given by solid state source.

If you are a looking for our best solution to your present and future professional demands, B-1000 is the answer.





Highest category of optical equipment among our product range guarantees a sharp and clear view in any situation, while top level mechanical design offers sturdiness and long lifetime.



Optically Impressive

MAINTAINING GOOD EYESIGHT

- » 10x/22 eyepieces for large specimen view
- » Comfortable rubber cup to get rid of annoying external light
- » High eye-point for glasses wearers, dioptric adjustment (left eyepiece)

B-510 & IOS W-PLAN: THE PERFECT COMBINATION

- » IOS Infinity corrected optical system
- » Full planarity optics on 22 mm (W-PLAN) according to ISO 19012-1
- » High-grade Semi-Apo lens available ideal for fluorescence







Solid Stand - Extra Stability

A completely new design and a die-cast aluminum stand offer solidity and durability, even for the most demanding laboratory use.

This new microscope can seamlessly be upgraded with many attachments that extend its field of use.

X-LED White Illumination

X-LED illumination system is based on a pure white high-efficiency LED and a special optics. It guarantees constant color temperature, no heat, and an extreme electrical consumption efficiency. The whole system is pre-aligned and boasts a lifetime of 50,000 hours.

X-LED benefits

Powerful pure white LED illumination, ideal for brightfield, darkfield and phase contrast applications. Constant color temperature through all the intensity levels. No heat generation, avoiding damage of the specimen.

Factory pre-centering assures uniform illumination over the field of view, yet providing perfect Koehler alignment. Very long lifetime and high power efficiency.

Light under control

Intelligent control of the microscope illumination: the "AUTO-OFF" function automatically switches the light off after a user-selectable time period. "BOOST" gives an extra high level of illumination for light-demanding applications. "AUTO" allows to store an illumination level, and to maintain it throughout the inspection.





Low position focus and stage controls allow a fast and comfortable operation. Frequently used controls as light intensity adjustment and diaphragm are also placed in the lower part of the stand and enable operation without having to take the eyes off the specimen. All optical heads are equipped with high-point eyepieces and dioptric adjustment, for the best viewing experience.



Modularity – Build your own solution

Many worlds in one instrument. Modularity allows to build the desired solution (brightfield, darkfield, phase contrast, material science, fluorescence, motorized automation and so on). B-1000 has the flexibility to help your work the best way.

Comfortable Stage

Refined belt-driven stage, with a wide working surface and a highly precise XY movement.

High Quality IOS Optical System

Infinity corrected optical system, based on planachromatic, fluorite and semi-apochromatic objectives, designed to give sharp and clear images, both for the user and the digital camera. Quintuple and sextuple nosepieces give the flexibility to build the objectives that best suits your needs. The system is completed with wide field, high-point eyepieces, with a field number of 24mm.

Ready for Digital Imaging

Range of adapters can accommodate for C-mount digital cameras, as well as reflex cameras. Focus adjustment gives perfectly clear digital images. Our cameras include specific software for capturing, measuring, marking and storing your images. Pro View software allows to perform image acquisition, post-processing, measurements and storage of your images. User can save a preset for later work, or even create a multi-focus composition.





Remote-controlled microscope

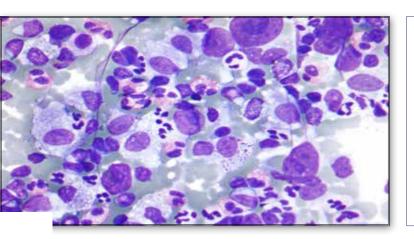
The stage can be remote-controlled through a dedicated software: X, Y, Z axes, as well as nosepiece, can be moved with a single click. Communication protocol is available for interfacing with custom software, such as automated analysis or autofocus.

X-Y-Z motorized stage Motorized nosepiece





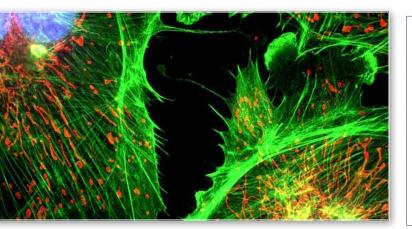
B-810/B-1000 - Observation Methods



Pathology / Cytology

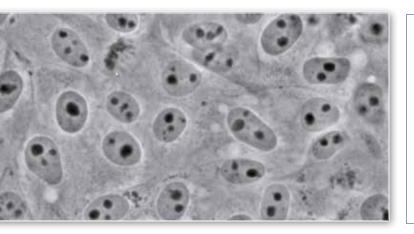
Since B-810 / B-1000 use white LED illumination, they can maintain the same color temperature even if the brightness is changed. "AUTO" function automatically adjusts the light intensity when the objective is changed or the aperture diaphragm is set to a different value.

These feautures, along with motorized stage and ergonomic controls, make your workflow easier.



Fluorescence Microscopy

A new attachment for epi-fluorescence provides the ultimate solution in the field of fluorescence diagnostic. Vibration-free six positions filter wheel with shutter, field and aperture diaphragms offer all you need for a complete analysis. Custom filtersets are available and mounted on request. For application where efficiency, rapidity and ease of use are crucial, this model offers also a LED epi-fluorescence attachment, with very high power standard illuminators.



Phase Contrast Microscopy

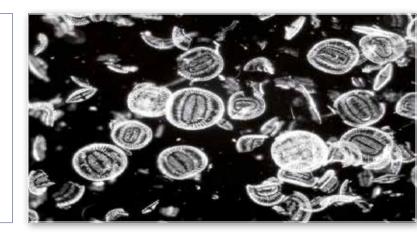
The bright LED illuminator brings a comfortable view in phase contrast with all magnifications. Universal wheel condenser allows to quickly switch between brightfield, darkfield and phase contrast.

Ideal for clinical laboratories or fibers (e.g. asbestos) analysis.

B-810/B-1000 - Observation Methods

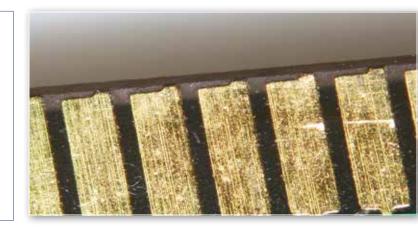
Darkfield Microscopy

Ideal for observing blood cells, diatoms, small insects, bone, fibers, unstained bacteria, yeast, protozoa, mineral and chemical crystals, colloidal particles, dust-count specimens, and thin sections of polymers and ceramics.



Material Science

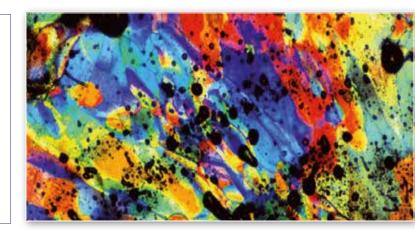
A new attachment designed specifically for metallographic inspection, with dedicated objectives set, for the most complete epi-illumination analysis: brightfield, darkfield and polarizing view observations.



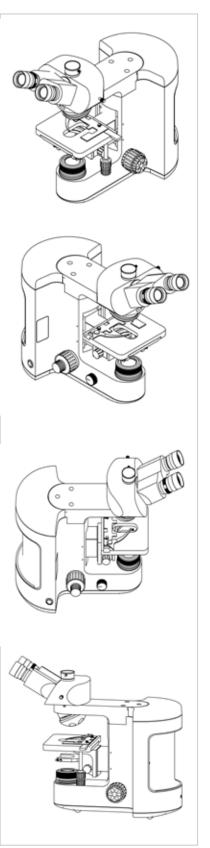
Polarizing Microscopy

Polarized light microscopy is used in geological applications or also for both natural and industrial minerals, composites such as concretes, ceramics, mineral fibers and polymers, and crystalline or biological molecules such as DNA, starch, wood and urea.

Attachments for a full polarization analysis are available (both for transmitted and incident light), so it's possible to look at color fringes right away.



B-810/B-1000 - Design and Production





Laboratory

B-810/B-1000 - Design and Production

OPTIKA workshop provides the facilities for precise and reliable optomechanical manufacturing, essential for this kind of instruments.

CNC machining department, equipped with 5-axis milling machine and lathe.



Work in progress inside the milling machine.



Die-cast stands ready to be processed.



Microscope stands exiting from the internal varnishing facility.





All processes are carefully monitored through the application of **ISO 9001 Quality System standards**.

Eyepieces



M-1001

PL10x/22 eyepieces (pair), high eyepoint, with rubber cup (retractable)



M-1002

PL10x/24 eyepieces (pair), high eyepoint, with rubber cup (retractable); for B-1000 only



M-1003

PL15x/16 eyepieces (pair), high eyepoint



M-781

PL10x/22 eyepiece, high eyepoint, with micrometric scale (10mm/100um) & rubber cup (retractable)



AA-01

12.5x/18 eyepieces (pair), high eyepoint, with dioptric adjustment, one with W&B graticule for Asbestos



M-1004.N

Centering telescope



Heads





Trinocular head, two positions (100/0, 50/50) for B-1000



M-1011

Trinocular head, three positions (100/0, 50/50, 0/100) for B-1000



M-1012

Binocular ERGO head for B-1000



M-1013

Trinocular ERGO head, two positions (100/0, 50/50) for B-1000



M-1188

Trinocular head, single position (50/50) for B-810



Bodies



M-1187

Main body with focus system and X-LED³ illumination for B-810



M-1021B

Main body with focus system and X-LED⁸ illumination, for general purposes for B-1000



M-1021M

Main body with focus system and X-LED⁸ illumination, for metallurgical model for B-1000



M-1022M

Main body with focus system, for metallurgical model with incident light only; for B-1000



M-1156

Upgrade (controller) for any kind of motorization (stage, Z-axis, nosepiece, or all of them together); for B-1000

M-1149

Motorization of Z-axis for B-1000

Nosepieces



M-1040

Quintuple reversed nosepiece, for RMS objectives; for B-810



M-1041

Sextuple reversed nosepiece, for RMS objectives; for B-810



M-1042

Sextuple reversed nosepiece, for RMS objectives with DIC slot; for B-1000



M-1043

Sextuple motorized reversed nosepiece, for RMS objectives with DIC slot; for B-1000



M-1040

Quintuple reversed nosepiece, with centrable positions for POL objectives; for B-1000



M-1045

Quintuple reversed nosepiece for darkfield MET objectives, with 3 adapter rings for RMS objectives; for B-1000



M-1046

Quintuple motorized reversed nosepiece for darkfield MET objectives, with 3 adapter rings for RMS objectives; for B-1000



W-PLAN Objectives



Plan Objectives - IOS W-PLAN Series



M-1049 IOS W-PLAN 2x/0.08

M-1125 IOS W-PLAN 4x/0.10

M-1126 IOS W-PLAN 10x/0.25

M-1127 IOS W-PLAN 20x/0.40

M-1128 IOS W-PLAN 40x/0.65

M-1129 IOS W-PLAN 60x/0.80

M-1130 IOS W-PLAN objective 100x/1.25 (oil)

M-1130.1 IOS W-PLAN objective 100x/1.25 (Iris)

Plan Objectives - IOS W-PLAN PH Series



M-1120.N IOS W-PLAN PH 10x/0.25 M-1121.N IOS W-PLAN PH 20x/0,40

M-1122.N IOS W-PLAN PH 40x/0.65 M-1123.N IOS W-PLAN PH 100x/1.25 (oil)

Plan Semi-APO Objectives - IOS W-PLAN F Series



M-1060 IOS W-PLAN F 4x/0.13

M-1061 IOS W-PLAN F 10x/0.30

M-1062 IOS W-PLAN F 20x/0.50

M-1063 IOS W-PLAN F 40x/0.75

M-1064 IOS W-PLAN F 100x/1.30 (oil)

Plan Objectives - IOS U-PLAN POL Series



M-1080 IOS U-PLAN POL 4x/0.10

M-1081 IOS U-PLAN POL 10x/0.25 M-1081.5 IOS U-PLAN POL 20x/0.45

M-1082 IOS U-PLAN POL 40x/0.65

M-1083 IOS U-PLAN POL 60x/0.85

Plan Objectives - IOS LWD W-PLAN MET Series



M-1099 IOS LWD W-PLAN MET 2.5x/0.08 (with depolarizer)

Plan Objectives - IOS LWD W-PLAN MET BD Series



M-1109 IOS LWD W-PLAN MET BD 5x/0.12

M-1110 IOS LWD W-PLAN MET BD 10x/0.25

M-1111 IOS LWD W-PLAN MET BD 20x/0.40

M-1112 IOS LWD W-PLAN MET BD 40x/0.60

M-1113 IOS LWD W-PLAN MET BD 50x/0.75

M-1114 IOS LWD W-PLAN MET BD 100x/0.80 (dry)

U-PLAN Objectives



Plan Semi-APO Objectives - IOS U-PLAN F Series



M-1075 IOS U-PLAN F 4x/0.13

M-1076 IOS U-PLAN F 10x/0.30

M-1077 IOS U-PLAN F 20x/0.50

M-1078 IOS U-PLAN F 40x/0.75

M-1079 IOS U-PLAN F 100x/1.30 (oil)

Plan APO Objectives - IOS U-PLAN APO Series



M-1301 IOS U-PLAN APO 2x/0.08

M-1302 IOS U-PLAN APO 4x/0.13

M-1303 IOS U-PLAN APO 10x/0.40

M-1304 IOS U-PLAN APO 20x/0.75

M-1305 IOS U-PLAN APO 40x/0.95 **M-1306** IOS U-PLAN APO 60x/0.90

M-1307 IOS U-PLAN APO 100x/1.35

Plan Semi-APO Objectives - IOS U-PLAN F PH Series



M-1310 IOS U-PLAN F PH 4x/0.13

M-1311 IOS U-PLAN F PH 10x/0.40

M-1312 IOS U-PLAN F PH 20x/0.75

M-1313 IOS U-PLAN F PH 40x/0.95

M-1314 IOS U-PLAN F PH 60x/0.90

M-1315 IOS U-PLAN F PH 100x/1.35

M-1157 universal condenser required

Plan Objectives - IOS LWD U-PLAN POL Series



M-1090 IOS LWD U-PLAN POL 5x/0.15

M-1091 IOS LWD U-PLAN POL 10x/0.30

M-1092 IOS LWD U-PLAN POL 20x/0.45

M-1093 IOS LWD U-PLAN POL 50x/0.55

Plan Objectives - IOS LWD U-PLAN MET Series



M-1100 IOS LWD U-PLAN MET 5x/0.15

M-1101 IOS LWD U-PLAN MET 10x/0.30

M-1102 IOS LWD U-PLAN MET 20x/0.45

M-1103 IOS LWD U-PLAN MET 50x/0.55

M-1104 IOS LWD U-PLAN MET 100x/0.80 (dry)

Plan Semi-APO Objectives - IOS LWD U-PLAN F MET Series



M-1171 IOS LWD U-PLAN F MET 5x/0.15

M-1172 IOS LWD U-PLAN F MET 10x/0.30

M-1173 IOS LWD U-PLAN F MET 20x/0.50 **M-1174** IOS LWD U-PLAN F MET 50x/0.80

1174 IOS LWD U-PLAN F MET 100 (200)

M-1175 IOS LWD U-PLAN F MET 100x/0.90 (dry)

Plan Objectives - IOS LWD U-PLAN MET BD (Darkfield) Series



M-1094 IOS LWD U-PLAN MET BD 5x/0.15

M-1095 IOS LWD U-PLAN MET BD 10x/0.30

M-1096 IOS LWD U-PLAN MET BD 20x/0.45

M-1097 IOS LWD U-PLAN MET BD 50x/0.55

M-1098 IOS LWD U-PLAN MET BD 100x/0.80 (dry)

Plan Semi-APO Objectives - IOS LWD U-PLAN F MET BD Series



M-1180 IOS LWD U-PLAN F MET BD 5x/0.15

M-1181 IOS LWD U-PLAN F MET BD 10x/0.30

M-1182 IOS LWD U-PLAN F MET BD 20x/0.50

M-1183 IOS LWD U-PLAN F MET BD 50x/0.80

M-1184 IOS LWD U-PLAN F MET BD 100x/0.90 (dry)

Stages



M-1140

Standard mechanical stage; 175x145mm for B-1000



M-1141

Rackless mechanical stage; movement knobs with friction adjustment control; 242x157mm; for B-1000.



M-1143

MPC (Mineral Solid Surface) rackless mechanical stage; movement knobs with friction adjustment control; 242x157mm; for B-1000.



M-1148

Metallurgical stage with glass, for metallurgical model; 175x145mm; for B-1000



M-1190

Rackless mechanical stage; 220x149mm; for B-810



M-1143.1

MPC (Mineral Solid Surface) rackless mechanical stage; 220x149mm; for B-810



Stages



M-1145 + M-1146

Rotating Stage, centrable + attachable XY stage; dia. 172mm; for B-1000



M-1147

Motorized mechanical stage; 242x157mm; for B-1000



M-1144

Heating stage, with digital temperature controller; 175x145mm; for B-1000



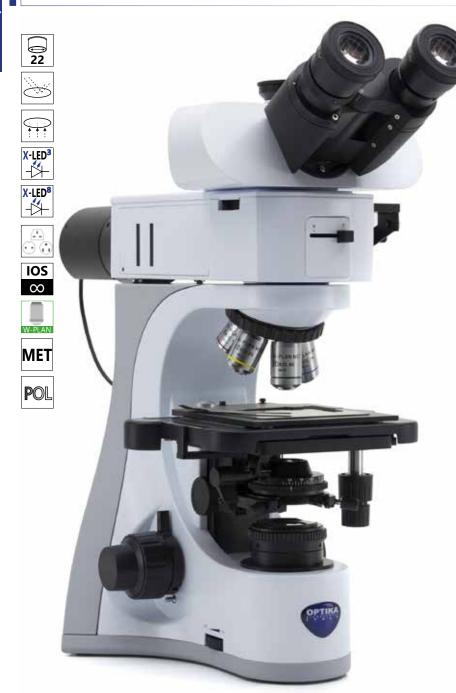
M-1190H

Heating stage, with digital temperature controller; 220x149mm; for B-810

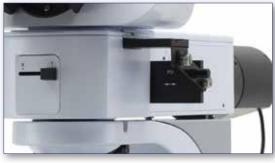


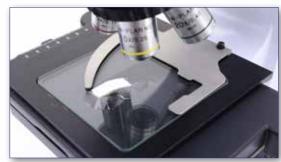
B-510METR - Metallurgical Microscope

Advanced routine laboratory microscope with IOS W-PLAN MET objectives and metallurgical attachment with the exclusive **X-LED³** lighting source for both transmitted and incident illumination. The NCG (no cover glass) objectives are especially designed for microscopy use without a cover slip ideal for metallographic samples and other opaque specimens.











Part	Description
Observation mode:	Brightfield on transmitted light. Brightfield, simple polarized light, oblique illumination on incident light.
Epi-illumination and polarizing filters:	X-LED ⁸ with white 8 W LED (6.300 K) with brightness control. With aperture and field diaphragms, and oblique illumination system. With polarizer and analyzer.
Head:	Trinocular (fixed 50/50), 30° inclined, 360° rotating.
Interpupillary distance:	Adjustable between 50 and 75 mm.
Dioptric adjustment:	On the left eyepiece tube.
Eyepieces:	WF10x/22 mm, high eye-point and with rubber cups.
Nosepiece:	Quintuple revolving nosepiece, rotation on ball bearings.

Part	Description
Objectives (strain-free):	IOS W-PLAN MET 5x/0.12 IOS W-PLAN MET 10x/0.25 IOS W-PLAN MET 20x/0.40 IOS W-PLAN MET 50x/0.75 All with anti-fungus treatment.
Specimen stage:	Double layer rackless mechanical stage, 233x147 mm, 78x54 mm X-Y range. With tempered glass plate.
Focusing:	Coaxial coarse (adjustable tension) and fine focusing mechanism with limit stop to prevent the contact between objective and specimen.
Condenser:	Swing-out N.A. 0.2/0.9, with iris diaphragm, focusable and centerable.
Transmitted illumination (Full Koehler type):	X-LED ³ with white 3.6 W LED (6.300 K) with brightness control. Multi-plug 100-240Vac/6Vdc external power supply.

Condensers

M-1157 8-Position universal condenser for B-1000



Parts for the universal condenser M-1157

M-1205 Top lens 0.2 N.A.
M-1206 Top lens 0.9 N.A.
M-1207 Top lens 1.4 N.A.
M-1208 DIC 10x prism
M-1209 DIC 20x prism
M-1210 DIC 40x/60x prism
M-1212 10x/20x phase ring
M-1213 40x/60x phase ring
M-1214 100x phase ring
M-1215 4x phase ring
M-1216 Darkfield stop (dry)
M-1217 Darkfield stop (oil)

M-1153

0.90 N.A. swing-out POL condenser for B-1000



M-618

Darkfield condenser for dry objectives for B-1000



M-185

Darkfield condenser for dry objectives for B-810



M-1124.NO

Phase contrast condenser with insert slide 10x/20x-40x for B-810



M-1124

Phase contrast condenser with insert slide 10x/20x-40x for B-1000



M-1152.NO

Phase contrast condenser 10x, 20x, 40x, 100x, BF, DF for B-810

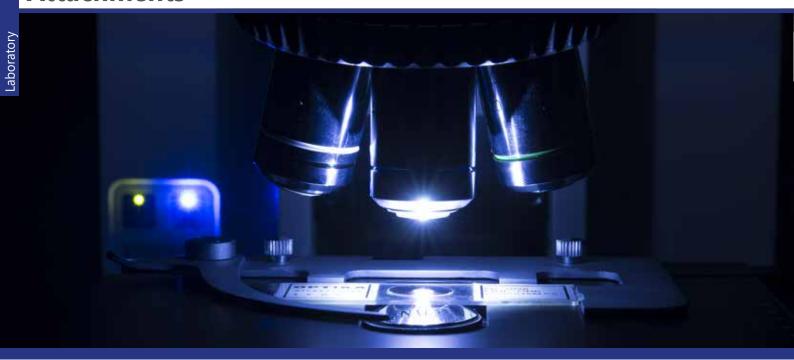


M-1152.N

Phase contrast condenser 10x, 20x, 40x, 100x, BF, DF for B-1000



Attachments



Fluorescence attachments

M-1031

4-position LED Fluorescence attachment, with standard Blue and Green filtersets (FITC & TRITC); for B-1000



M-1032

6-position HBO Fluorescence attachment, with standard Blue and Green filtersets (FITC & TRITC). With Aperture & Field Diaphragms; for B-1000.



Polarizing attachments

M-1033

Bertrand lens with analyzer and slot for sliders (with Lambda, 1/4 Lambda and Quartz Edge); for B-1000



M-1034

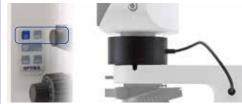
8W X-LED incident polarizing attachment. With Aperture & Field Diaphragms; for B-1000



ALC attachments

M-1030

Automatic Light Control (ALC) system for B-1000



Attachments



Metallurgical attachment

M-1035

Metallurgical attachment, 100 W Halogen. Equipped with Polarizer and rotating Analyzer.

With Aperture & Field Diaphragms. 2 empty slots for extra filters; for B-1000.



M-1036

Metallurgical attachment, 100 W Halogen. Equipped with Polarizer and rotating Analyzer.

With Aperture & Field Diaphragms. 2 empty slots for extra filters; for B-1000.



Discussion Bridges for B-1000









M-1162

M-1159

Discussion Bridge with 1 extra head. Face-to-Face type

M-1160

Discussion Bridge with 1 extra head. Side-by-Side type

M-1161

Discussion Bridge with 2 extra heads

M-1162

Discussion Bridge with 4 extra heads

Discussion Bridge with 9 extra heads

All Discussion Bridges are equipped with extra heads with WF10x/20mm eyepieces

Application Sets

Koehler DIC transmitted

M-550 - Interferential green filter IF550.

M-190P - Polarizer for transmitted light.

M-1201 - Analyzer for transmitted light.

M-1202 - DIC prism for transmitted light.



Usable objective series: IOS W-PLAN F, IOS U-PLAN F. (See page 168)

Transmitted Koehler DIC combined with Fluo HBO

M-550 - Interferential green filter IF550.

M-190P - Polarizer for transmitted light.

M-1203 - Analyzer for reflected light.

M-1202 - DIC prism for transmitted light.



Usable objective series: IOS W-PLAN F, IOS U-PLAN F. (See page 168)

Nomarski DIC transmitted

M-1157 - 8-Position universal condenser.

M-1206 - Top lens 0.9 N.A.

M-1208 - DIC 10x prism for universal condenser.

M-1209 - DIC 20x prism for universal condenser.

M-1210 - DIC 40x/60x prism for universal condenser.

M-1201 - Analyzer for transmitted light.

M-1202 - DIC prism for transmitted light.



Usable objective series: IOS U-PLAN F, IOS U-PLAN APO, IOS U-PLAN F PH. (See page 168)

Transmitted Nomarski DIC combined with Fluo HBO

M-1157 - 8-Position universal condenser.

M-1206 - Top lens 0.9 N.A.

M-1208 - DIC 10x prism for universal condenser.

M-1209 - DIC 20x prism for universal condenser.

M-1210 - DIC 40x/60x prism for universal condenser.

M-1203 - Analyzer for reflected light.

M-1202 - DIC prism for transmitted light.



Usable objective series: IOS U-PLAN F, IOS U-PLAN APO, IOS U-PLAN F PH. (See page 168)

Nomarski DIC reflected for metallurgical appl.

M-870 - DIC prism for metallurgical reflected light.



Usable objective series: IOS LWD U-PLAN F MET Series IOS LWD U-PLAN F MET BD Series.

See page 168

GOUT analysis kit

M-1037 - GOUT analysis kit



IOS ∞

W-PLAN PH

DF

B-810 - Brightfield & Phase Contrast Microscope

B-810 is the result of the long experience gathered by OPTIKA Microscopes in the field of light microscopy, offering an extremely valuable product for routine and research laboratory brightfield & phase contrast applications.

Ergonomic design for comfortable long-term use and smooth operation with minimal movements meets the concept of modularity, to offer a the possibility to create a tailored version and match all the personal requirements.

It is qualified as an particularly performing and robust solution, considering the field of view of 22 mm, the state-of-the-art, exclusive **X-LED³** lighting source (3.6 W) and the sturdy dye-cast frame for high stability combined with a wide variety of heads, objectives and condensers to get the most out of a microscope.



B-810 - Configuration Chart



B-1000BF - Brightfield Microscope

The modular OPTIKA B-1000 helps you working in a comfortable way during extended periods of use and let you perform reliable, accurate and rapid diagnosis benefiting from modularity, which gives the chance to create customized configurations tailored on customer needs. Versatile, robust, durable and sturdy, B-1000 offers premium quality optics (including Semi-Apo objectives), the state-of-the-art, exclusive **X-LED**⁸ (8 W) illumination system, designed by OPTIKA and the Koehler diaphragm. B-1000 gives multiple options as manual or motorized configuration, with the possibility of

ALC (Automatic Light Control) and a variety of objectives, stages and condensers.



B-1000BF - Configuration Chart



B-1000PH - Phase Contrast Microscope

The modular OPTIKA B-1000 is available in phase contrast and helps you working in a comfortable way during extended periods of use performing reliable, accurate and rapid diagnosis benefiting from modularity, which gives the chance to create customized configurations tailored on customer needs. Versatile, robust, durable and sturdy, B-1000 offers premium quality optics, the state-of-the-art, exclusive **X-LED**⁸ (8 W)illumination system, designed by OPTIKA and the Koehler diaphragm. B-1000 gives multiple options as manual or motorized configuration, with the possibility of **ALC** (Automatic Light Control) and a variety of objectives, stages and condensers.



B-1000PH - Configuration Chart



B-1000FL-HBO - HBO Fluorescence Microscope

The modular OPTIKA B-1000 can stand a HBO fluorescence attachment, helping you working in a comfortable way during extended periods of use and performing reliable, accurate and rapid diagnosis benefiting from modularity, which gives the chance to create customized configurations tailored on customer needs. Versatile, robust, durable and sturdy, B-1000 offers premium quality optics (including Semi-Apo objectives), the state-of-the-art, exclusive **X-LED**⁸ (8 W) illumination system, designed by OPTIKA and the Koehler diaphragm.

B-1000 gives multiple options as manual or motorized configuration, with a variety of objectives, stages and condensers.

Name	filterset Excitation	Dichroic mirror	Emission	
B Blue	filter (nm) 460 - 490	cut-off (nm) 500	filter (nm) 520LP	
Green	510 - 550	570	590LP	
	l filterset (opt			
Name	Excitation filter (nm)		Emission filter (nm)	
V (Violet)		455	455LP	
UV	330 - 385	400	420LP	
X-LED ⁸ N-LED ⁸ N-PLAN U-PLAN FL				
	/		ортіка	

B-1000FL-HBO - Configuration Chart



B-1000FL-LED - LED Fluorescence Microscope

The modular OPTIKA B-1000 can stand a LED fluorescence attachment, helping you working in a comfortable way during extended periods of use and performing reliable, accurate and rapid diagnosis benefiting from modularity, which gives the chance to create customized configurations tailored on customer needs. Versatile, robust, durable and sturdy, B-1000 offers premium quality optics (including Semi-Apo objectives), the state-of-the-art, exclusive **X-LED**⁸ (8 W) illumination system, designed by OPTIKA and the Koehler diaphragm.

B-1000 gives multiple options as manual or motorized configuration, with a variety of objectives, stages and condensers.



Stages



M-1145 + M-1146

Rotating Stage, centrable + attachable XY stage; dia. 172mm; for B-1000



M-1147

Motorized mechanical stage; 242x157mm; for B-1000



M-1144

Heating stage, with digital temperature controller; 175x145mm; for B-1000



M-1190H

Heating stage, with digital temperature controller; 220x149mm; for B-810



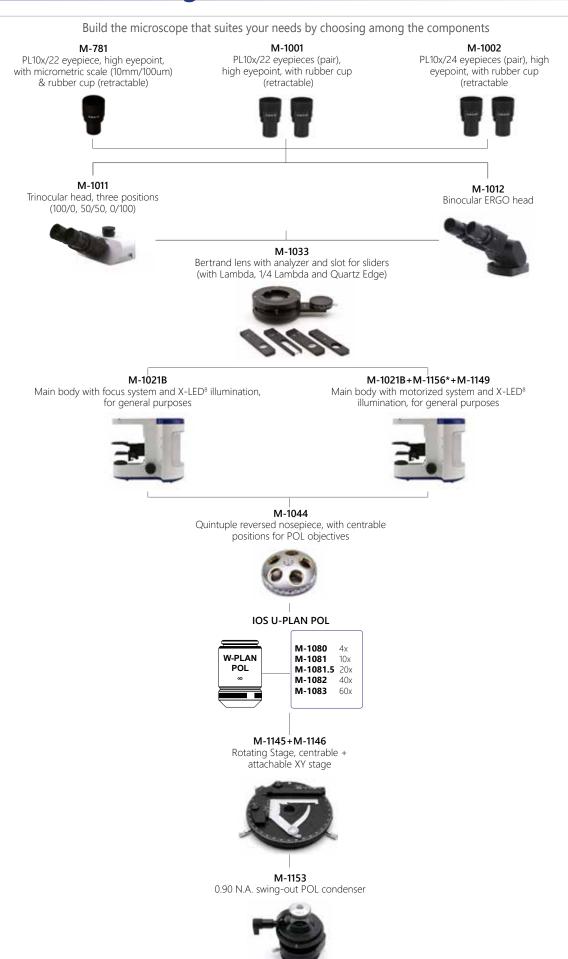
B-1000POL - Polarizing Microscope

The modular OPTIKA B-1000 is available with transmitted polarized light, helping you working in a comfortable way during extended periods of use and performing reliable, accurate and rapid diagnosis benefiting from modularity, which gives the chance to create customized configurations tailored on customer needs. Versatile, robust, durable and sturdy, B-1000 offers premium quality optics, the state-of-the-art, exclusive X-LED8 (8 W) illumination system, designed by OPTIKA and the Koehler diaphragm.

B-1000 gives multiple options as manual or motorized configuration.



B-1000POL - Configuration Chart



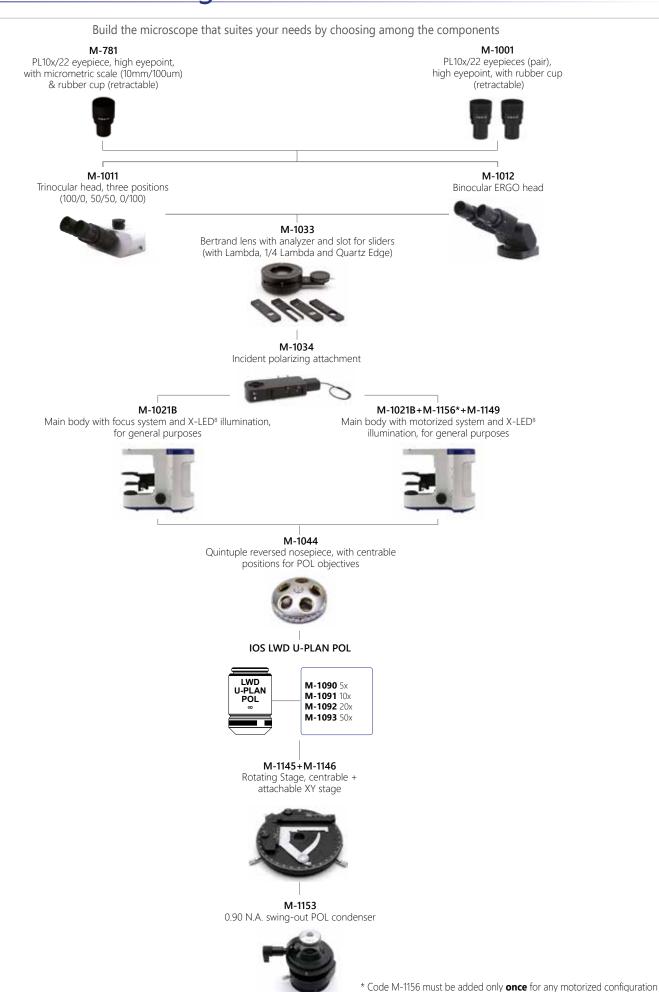
B-1000POL-I - Polarizing Microscope

The modular OPTIKA B-1000 is available with transmitted and incident polarized light, helping you working in a comfortable way during extended periods of use and performing reliable, accurate and rapid diagnosis benefiting from modularity, which gives the chance to create customized configurations tailored on customer needs. Versatile, robust, durable and sturdy, B-1000 offers premium quality optics, the state-of-the-art, exclusive X-LED8 (8 W) illumination system, designed by OPTIKA and the Koehler diaphragm.

B-1000 gives multiple options as manual or motorized configuration.



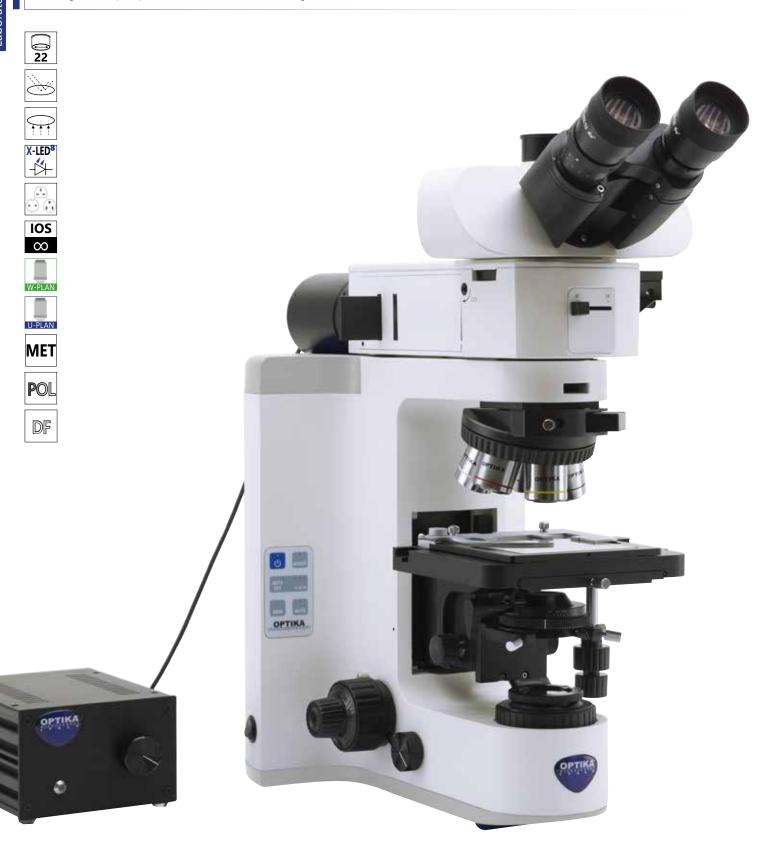
B-1000POL-I - Configuration Chart



B-1000MET - Metallurgical Microscope

The modular OPTIKA B-1000 is available with brightfield and darkfield incident light, helping you working in a comfortable way during extended periods of use and performing reliable, accurate and rapid diagnosis benefiting from modularity, which gives the chance to create customized configurations tailored on customer needs. Versatile, robust, durable and sturdy, B-1000 offers premium quality optics, the state-of-the-art, exclusive **X-LED**⁸ (8 W) illumination system, designed by OPTIKA and the Koehler diaphragm. Incident light through 100 W halogen lamp or 18 W LED illumination.

B-1000 gives multiple options as manual or motorized configuration.



B-1000MET - Configuration Chart

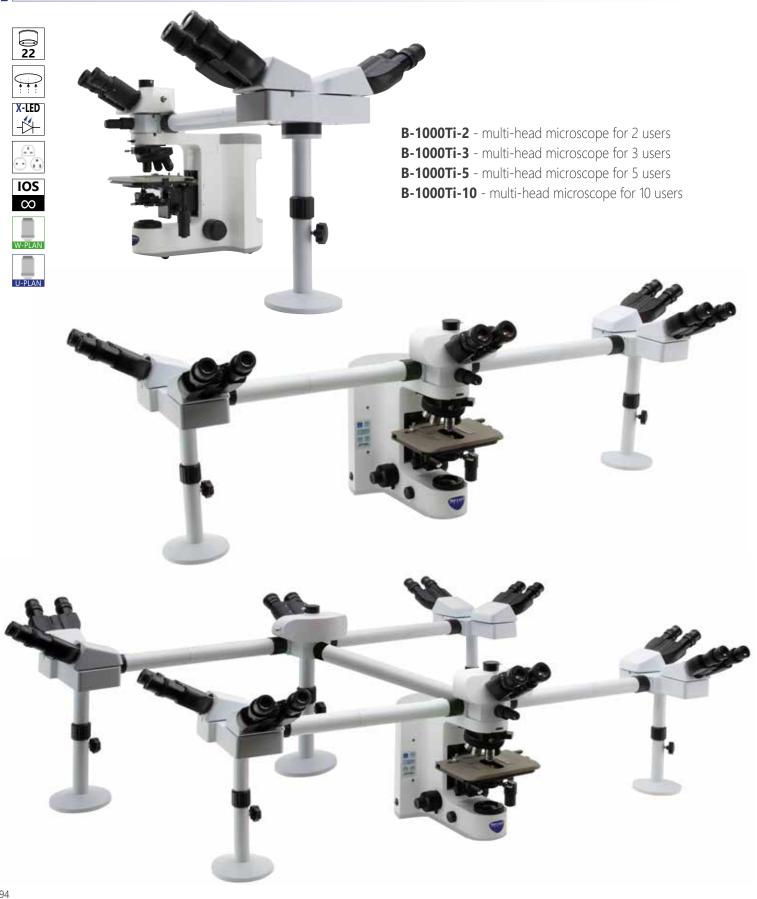


B-1000 Multi-Head - Discussion Microscopes

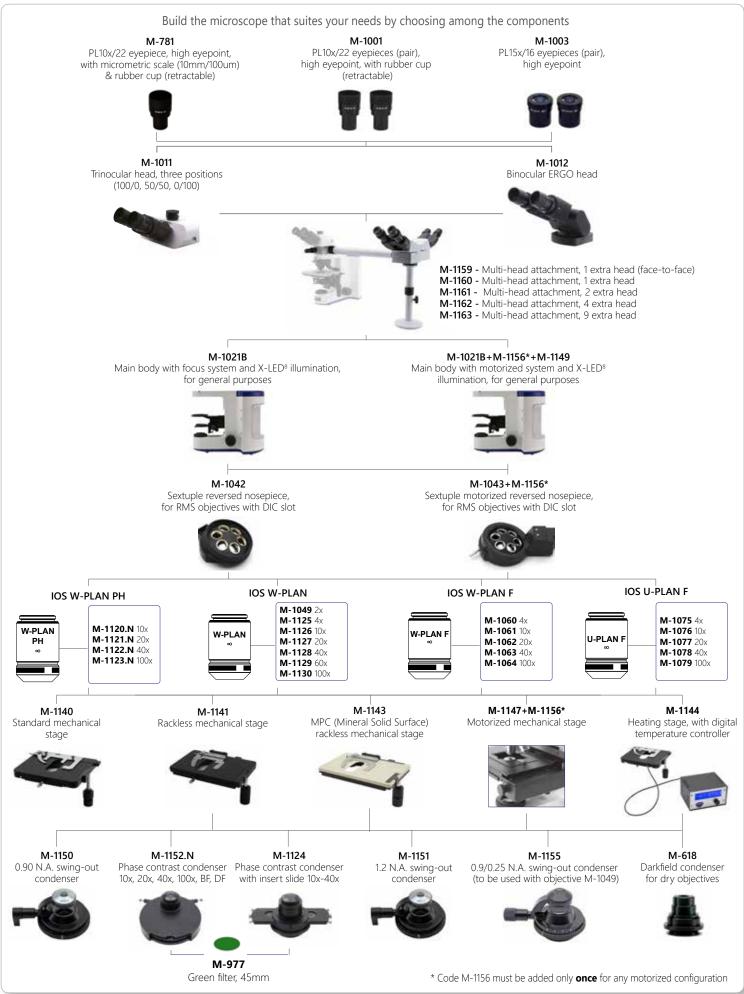
The modular OPTIKA B-1000 helps you working in a comfortable way during extended periods of use and let you perform reliable, accurate and rapid diagnosis benefiting from modularity, which gives the chance to create customized configurations tailored on customer needs. Versatile, robust, durable and sturdy, B-1000 offers premium quality optics (including Semi-Apo objectives), the state-of-the-art, exclusive **X-LED** illumination

system, designed by OPTIKA and the Koehler diaphragm. B-1000 gives multiple options as manual or motorized configuration, with a variety of objectives, stages and condensers. Ideal for discussion groups and teaching purpose for multiple observers, up to ten users simultaneously.





B-1000 Multi-Head - Configuration Chart



B-810/B-1000 - Accessories **Eyecups & Eyepieces** <u>AA-01</u> 12.5x/18 eyepieces (pair), high eyepoint, focusable, W&B reticle (only for B-810 & B-1000PH) M-690 Eyecups (pair) M-781 PL10x/22 micrometric eyepiece, high eyepoint, with rubber cup PL10x/22 eyepieces (pair), high eyepoint, with rubber cup M-1001 M-1002 PL10x/24 eyepieces (pair), high eyepoint, with rubber cup (only for B-1000BF, B-1000PH and B-1000POL) M-1003 PL15x/16 eyepieces (pair), high eyepoint (except for B-1000POL & B-1000POL-I) **Condensers & Filters** Interferential green filter IF550 (except for B-810, B-1000MET, B-1000POL and B-1000POL-I) M-550 Polarizing set (filters only) (except for B-1000FL-LED, B-1000MET, B-1000POL, and B-1000POL-I) M-613 Lambda filter for polarizing set (except for B-1000FL-LED, B-1000MET, B-1000POL, and B-1000POL-I) M-615 M-617.1NO Phase contrast set with IOS W-PLAN objective 40x (only for B-810) M-617.1N Phase contrast set with IOS W-PLAN objective 40x (only for B-1000) M-975 Blue filter, 45mm diameter (except for B-1000MET) M-977 Green filter, 45mm diameter (except for B-1000MET) M-979 Yellow filter, 45mm diameter (except for B-1000MET) M-989 Frosted glass filter, 45mm diameter (except for B-1000MET) M-1164 Empty fluorescence filterblock (only for B-1000FL-HBO) M-1165 Fluorescence filter set V (filterblock included) (only for B-1000FL-HBO)

Fluorescence filter set UV-DAPI (filterblock included) (only for B-1000FL-HBO)

Neutral density filter, 25% transmission (only for B-1000FL-HBO) M-ND25

Camera Adapters

M-113.1 Ring adapter, 30mm (for monocular and binocular microscopes)

M-115 0.35x C-Mount projection lens M-114 0.5x C-Mount projection lens

0.75x C-Mount projection lens M-118

C-Mount projection lens for APS-C/full frame reflex cameras (trino) M-173

0.35x focusable C-Mount adapter (biological microscopes) M-620 M-620.1 0.5x focusable C-Mount adapter (biological microscopes) M-620.2 0.65x focusable C-Mount adapter (biological microscopes) 1x focusable C-Mount adapter (biological & stereomicroscopes) M-620.3

M-699 Universal adapter for C-Mount projection lens (trino)

Miscellaneous

M-1166

15008 Immersion oil, 10ml <u>15009</u> Immersion oil, 100ml

15104 Cleaning kit

AA-02 HSE-NPL Mark II phase contrast test slide, with certification (only for B-810 & B-1000PH)

DC-005 TNT dust cover, extra large, 820(l)x550(h) mm

M-005 Micrometric slide, 26x76mm, with 2 scales (1mm/100 & 10mm/100)

M-069 Solar charger (only for B-810)

M-151 HBO 100W high-pressure mercury bulb for fluorescence

M-151.1 HBO 100W high-pressure mercury bulb for fluorescence (OSRAM)

M-1004.N Centering telescope, 30mm diameter (only for B-810, B-1000PH and B-1000TI Series)

M-1073 Gout analisys kit

VP-1000 IQ/OQ/PQ manual for B-1000 series (Brightfield)

VP-1000MET IQ/OQ/PQ manual for B-1000 series (Metallographic)

VP-1000POL IQ/OQ/PQ manual for B-1000 series (Polarizing)

IQ/OQ/PQ manual for B-810 series

VP-1000PH IQ/OQ/PQ manual for B-1000 series (Phase Contrast)

VP-1000FL IQ/OQ/PQ manual for B-1000 series (Fluorescence)

M-069 - Solar charger

Included battery: rechargeable – Lithium-Poly. Capacity: 2500 mAh. - Output voltage: 5 Vdc. Autonomy: over 6 hours at medium intensity (X-LED3). Charging models: with solar panel (12h), with external USB power supply (2.5h)



15104 - Cleaning kit

It cleans glass quickly and effectively, without leaving residue or odor. Ideal for precision lens or prism cleaning.





How to connect the cameras to our microscopes.

Please refer to the Adapter reference list on Digital section.

v 2.0 - OPTIKA reserves the right to make corrections, modifications, enhancements, improvements and other changes to its products at any time without notice.

Headquarters and Manufacturing Facilities

OPTIKA S.r.I. Via Rigla, 30 - 24010 Ponteranica (BG) - ITALY - Tel.: +39 035.571.392 - info@optikamicroscopes.com



Science Services GmbH