



Research Upright Microscopes



Research 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.





OPTIKA

OPTIKA

Halogen

X-LED⁸

Research Upright Microscopes

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.

Ergonomy

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, dark-field, 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 complete 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. Optika Vision Pro 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.





Research Upright Microscopes

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





BRIGHTFIELD

Transmitted brightfield illumination is one of the most commonly used observation method in optical microscopy, and is ideal for fixed, stained specimens or other types of samples having high natural absorption of visible light.

B-1000 Series is fitted with high-efficiency LED brightfield illuminator, for the best outcome when using this technique.

Capsella middle embry - B-800 - Brightfield

FLUORESCENCE

The fluorescence microscopy is the most demanding technique in biology and biomedical sciences, as well as in materials science.

This method is capable to study organic and inorganic samples thanks to primary fluorescence (auto-fluorescence) or secondary (staining and labelling with fluorochromes)

B-1000 series is tailored for applications in research and clinical/ pharmaceutical diagnostic field. Fluorescence illuminators available as mercury lamp (B-1000FL-HBO) and also as LED (B-1000FL-Led).

Cotton fibers - B-1000FL - UV Fluorescence

Observation Methods

MATERIAL SCIENCE / METALLOGRAPHY

Reflected light microscopy is the method for observation of specimens that remain opaque even when ground to a thickness of few microns. The range of specimens falling into this category is incredibly wide and includes most metals, ores, ceramics, many polymers, semiconductors (unprocessed silicon, wafers, and integrated circuits), coal, plastics, paint, paper, wood, leather, glass inclusions, and a wide variety of specific materials.

Brass (not polished) - B-1000MET - Material Science

PHASE CONTRAST

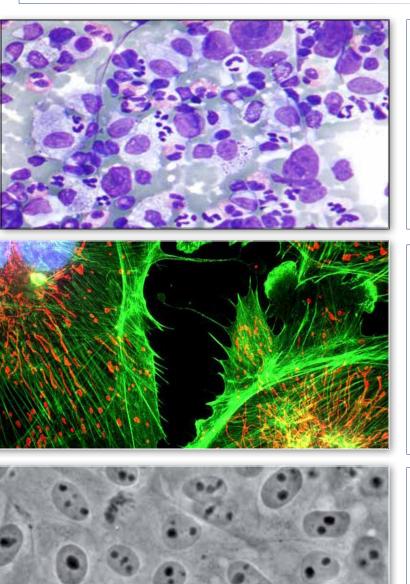
Phase-contrast microscopy is a particular technique applied in transparent, non-stainable, samples like culture of living cells, microorganisms,

lithographic patterns, latex dispersions, fibers, asbestous and subcellular particles.

It reveals many cellular structures that are not visible with a simple brightfield microscope.

Diatoms - B-1000PH - Phase contrast

B-1000 is completely designed and made in Italy to ensure the highest quality and reliability. Our designers worked on original shapes and look, to guarantee the best ergonomics and stability.



Pathology / Cytology

Since B-800 / 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. Vibrationfree six positions filter wheel with shutter, field and aperture diaphragms, it offers 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.

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.

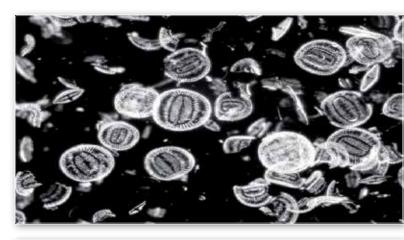
Material Science

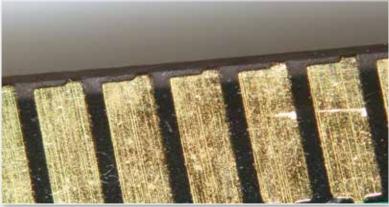
A new attachment designed specifically for metallographic inspection, with dedicated objectives set, for the most complete epi-illumination analysis: brightfield, darkfield and polarizing view.

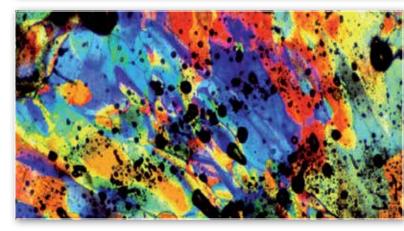
Polarizing Microscopy

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.









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.



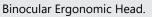


All processes are carefully monitored through the application of **ISO 9001 Quality System standards**.



Trinocular Head 100/0 - 50/50 - 0/100 type.







Choose Your Components





EYEPIECES



M-1001

WF10x/22mm Eyepieces, high-point type.



WF15X/16mm Eyepieces, high-point type.



30mm diameter Centering telescope.



WF10x/24mm Eyepieces, high-point type.



WF10x/22mm Micrometer Eyepiece, high-point type.

NOSEPIECES



Quintuple revolving Nosepiece, for RMS objectives.



Sextuple motorized revolving Nosepiece, for RMS objectives; with DIC slot.





Quintuple motorized revolving Nosepiece for darkfield metallurgical objectives; with 3 ring adapters for brightfield objectives; with DIC slot.



Sextuple revolving Nosepiece, for RMS objectives.

M-1041

M-1044

Sextuple revolving Nosepiece, for RMS objectives; with DIC slot.



Quintuple revolving Nosepiece for darkfield metallurgical objectives; with 3 ring adapters for brightfield objectives ; with DIC slot.



Choose Your Components



OBJECTIVES



10X: M-1051	40X: M-1053	100X: M-1055
4X: M-1050	20X: M-1052	60X: M-1054

IOS W-Plan objective.



IOS W-Plan Pol objective.



IOS W-Plan Met objective, for darkfield.



IOS U-Plan semi-Apo high-grade objective.



IOS W-Plan semi-Apo objective.



IOS W-Plan LWD Pol objective.



IOS W-Plan Ph objective.



IOS W-Plan LWD Met objective, for brightfield.

STAGES



Standard Mechanical Stage



MPC (mineral solid surface) rackless Mechanical Stage; movement knobs with friction adjustment control



Rotating Stage + attachable XY stage



Metallographic stage for B-1000 MET



Rackless Mechanical Stage; movement knobs with friction adjustment control



Heating stage for temperature control of specimens.



Motorized stage



Choose Your Components



CONDENSERS



0.90 N.A. swing-out Condenser



0,90/0,25 N.A. Swing-Out Condenser, low magnification.



1.20 N.A. swing-out Condenser



Darkfield Condenser (dry).



0.90 N.A. swing-out Polarizing Condenser



Phase contrast condenser 10x, 20x, 40x, 100x, BF, DF



0.70 N.A. swing-out Condenser



Phase contrast condenser with insert slide 10x-40x



Choose Your Components

FLUORESCENCE ATTACHMENTS



4-position LED Fluorescence Attachment



6-position HBO Fluorescence attachment

POLARIZING ATTACHMENTS



Bertrand Lens with analyzer and Lambda slides slot



Incident Polarizing Light attachment, with field and aperture diaphragms

DISCUSSION HEADS



M-1160 - 2-Head attachment M-1161 - 3-Head attachment M-1162 - 5-Head attachment M-1163 - 10-Head attachment



Metallurgical Brightfield/Darkfield attachment, with field and aperture diaphragms, neutral density filter, and polarizer/analyzer filters.

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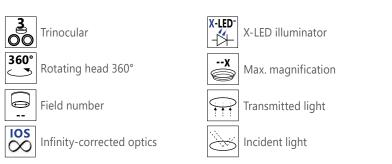
B-800 & B-1000 Optical performance

	Еуеріесе			10x (M-1001)		
	Field number (mm)				22	
Objective code	Objective	N.A.	W.D. (mm)	Total magnification	Field number (mm)	
M-1049	IOS W-PLAN OBJECTIVE 2X	0.08	19.4	20x	11	
M-1050	IOS W-PLAN OBJECTIVE 4X	0.1	11.9	40x	5.5	
M-1051	IOS W-PLAN OBJECTIVE 10X	0.25	12.1	100x	2.2	
M-1052	IOS W-PLAN OBJECTIVE 20X	0.4	1.5	200x	1.1	
M-1053	IOS W-PLAN OBJECTIVE 40X	0.65	0.36	400x	0.55	
M-1054	IOS W-PLAN OBJECTIVE 60X	0.85	0.3	600x	0.37	
M-1055	IOS W-PLAN OBJECTIVE 100X	1.25 (oil)	0.18	1000x	0.22	
M-1060	IOS W-PLAN SEMI-APO OBJECTIVE 4X	0.13	4.7	40	5.5	
M-1061	IOS W-PLAN SEMI-APO OBJECTIVE 10X	0.3	4.1	100	2.2	
M-1062	IOS W-PLAN SEMI-APO OBJECTIVE 20X	0.5	1.45	200	1.1	
M-1063	IOS W-PLAN SEMI-APO OBJECTIVE 40X	0.75	0.5	400	0.55	
M-1064	IOS W-PLAN SEMI-APO OBJECTIVE 100X	1.3 (oil)	0.08	1000	0.22	
M-1070	IOS U-PLAN SEMI-APO HIGH-GRADE OBJECTIVE 4X	0.13	15.13	40	5.5	
M-1071	IOS U-PLAN SEMI-APO HIGH-GRADE OBJECTIVE 10X	0.3	8.53	100	2.2	
M-1072	IOS U-PLAN SEMI-APO HIGH-GRADE OBJECTIVE 20X	0.5	2.33	200	1.1	
M-1073	IOS U-PLAN SEMI-APO HIGH-GRADE OBJECTIVE 40X	0.75	0.55	400	0.55	
M-1074	IOS U-PLAN SEMI-APO HIGH GRADE OBJECTIVE 100X	1.28 (oil)	0.21	1000	0.22	
M-1120.N	IOS W-PLAN PH OBJECTIVE 10X	0.25	10	100	2.2	
M-1121.N	IOS W-PLAN PH OBJECTIVE 20X	0.4	5.1	200	1.1	
M-1122.N	IOS W-PLAN PH OBJECTIVE 40X	0.65	0.54	400	0.55	
M-1123.N	IOS W-PLAN PH OBJECTIVE 100X	1.25 (oil)	0.13	1000	0.22	
M-1080	IOS W-PLAN POL OBJECTIVE 4X	0.1	20.8	40	5.5	
M-1081	IOS W-PLAN POL OBJECTIVE 10X	0.25	5.3	100	2.2	
M-1081.5	IOS W-PLAN POL OBJECTIVE 20X	0.45	1.56	200	1.1	
M-1082	IOS W-PLAN POL OBJECTIVE 40X	0.65	0.36	400	0.55	
M-1083	IOS W-PLAN POL OBJECTIVE 60X	0.85	0.3	600	0.37	
M-1099	IOS W-PLAN LWD MET OBJECTIVE 2,5X (WITH DEPOLARIZER), FOR BRIGHTFIELD	0.08	11.3	25	0.88	
M-1100	IOS W-PLAN LWD MET OBJECTIVE 5X, FOR BRIGHTFIELD	0.15	10.8	50	4.4	
M-1101	IOS W-PLAN LWD MET OBJECTIVE 10X, FOR BRIGHTFIELD	0.3	10	100	2.2	
M-1102	IOS W-PLAN LWD MET OBJECTIVE 20X, FOR BRIGHTFIELD	0.45	4	200	1.1	
M-1103	IOS W-PLAN LWD MET OBJECTIVE 50X, FOR BRIGHTFIELD	0.55	7.8	500	0.44	
M-1104	IOS W-PLAN LWD MET OBJECTIVE 100X (DRY), FOR BRIGHTFIELD	0.8 (dry)	2.1	1000	0.22	
M-1109	IOS W-PLAN MET OBJECTIVE 5X, FOR DARKFIELD	0.12	12	50	4.4	
M-1110	IOS W-PLAN MET OBJECTIVE 10X, FOR DARKFIELD	0.25	10	100	2.2	
M-1111	IOS W-PLAN MET OBJECTIVE 20X, FOR DARKFIELD	0.4	4.3	200	1.1	
M-1112	IOS W-PLAN MET OBJECTIVE 40X, FOR DARKFIELD	0.6	2.9	400	0.55	
M-1113	IOS W-PLAN MET OBJECTIVE 10X, FOR DARKFIELD	0.75	0.32	500	0.44	
M-1114	IOS W-PLAN MET OBJECTIVE 100X (DRY), FOR DARKFIELD	0.8 (dry)	2	1000	0.22	
I		()/				
M-1090	IOS W-PLAN LWD POL OBJECTIVE 5X	0.15	10.8	50	4.4	
M-1091	IOS W-PLAN LWD FOL OBJECTIVE 10X	0.3	10	100	2.2	
M-1091 M-1092	IOS W-PLAN LWD POL OBJECTIVE 10X	0.45	4	200	1.1	
M-1092	IOS W-PLAN LWD POL OBJECTIVE 20X	0.45	7.9	500	0.44	
101-1000		0.55	1.5	300	0.44	

	10x (M-1002)		15x (M-1003)	
	24		16	
Total magnific		Total magnifica		4
20	12	30	7.5	
40	6	60	3.75	_
100	2.4	150	1.5	4
200	1.2	300	0.75	_
400	0.6	600	0.37	
600	0.4	900	0.25	_
1000	0.24	1500	0.15	
				-
40	6	60	3.75	_
100	2.4	150	1.5	-
200	1.2	300	0.75	4
400	0.6	600	0.37	-
1000	0.24	1500	0.15	
				-
40	6	60	3.75	_
100	2.4	150	1.5	-
200	1.2	300	0.75	-
400	0.6	600	0.37	_
1000	0.24	1500	0.15	
100	2.4	150	1.5	A REAL PROPERTY
200	1.2	300	0.75	ALC: NO.
400	0.6	600	0.37	-
1000	0.24	1500	0.15	^{Pl} an Flu 1 0x /0.3
40	6	60	3.75	10x/0 3
00	2.4	150	1.5	
200	1.2	300	0.75	∞/0.17
400	0.6	600	0.37	Build and a second
600	0.4	900	0.25	
		- (
25	9.6	37.5	10	
50	4.8	75	3	
100	2.4	150	1.5	-
200	1.2	300	0.75	
500	0.48	750	0.3	_
1000	0.24	1500	0.15	
		· · · · · · · · · · · · · · · · · · ·		7
50	4.8	75	3	
100	2.4	150	1.5	1
200	1.2	300	0.75	
400	0.6	600	0.37	
500	0.48	750	0.3	
1000	0.24	1500	0.15	
				-
50	4.8	75	3	
100	2.4	150	1.5	
200	1.2	300	0.75	
500	0.48	750	0.3	

Plan | 40x, ∞/(

lcons



Automatic light control



Polarized light



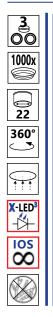
B-800 & B-1000 Models

B-800 Models	
B-800- Brightfield Research Microscope	page 26
B-1000 Models	
B-1000BF- Brightfield Research Microscope	page 28
B-1000PH - Phase Contrast Research Microscope	page 30
B-1000FL-LED - Led Fluorescence Research Microscope	page 32
B-1000FL-HBO - HBO Fluorescence Research Microscope	page 34
B-1000POL - Transmitted Polarizing Research Microscope	page 36
B-1000POL-I - Transmitted And Incident Polarizing Research Microscope	page 38
B-1000MET - Upright Advanced Metallurgical Microscope	page 40
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B-800 Series - Overview

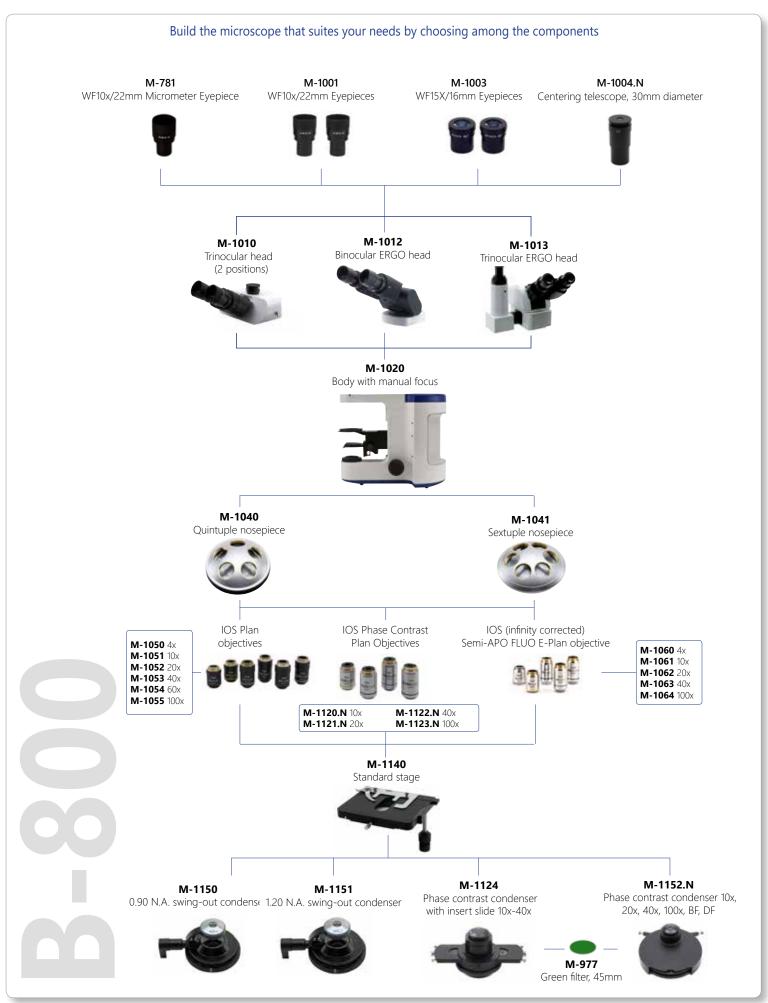
B-800 and B-1000 Series incorporate all the experience gathered by OPTIKA Microscopes in the field of light microscopy, adapted specifically for routine and research laboratory brightfield applications. These microscopes combine ergonomic design for comfortable long-term use, enabling operation with minimal movements, with modularuity, offering the possibility to create customized versions.

B-800





B-800 - Configuration Chart



B-1000 Series - Overview

This series incorporates all the experience gathered by OPTIKA Microscopes in the field of light microscopy, adapted specifically for routine laboratory brightfield applications. These microscopes are suitable for routine microscopy and have an ergonomic design for comfortable long-term use.

All main controls are located close to each other, which enable operation with minimal movements.

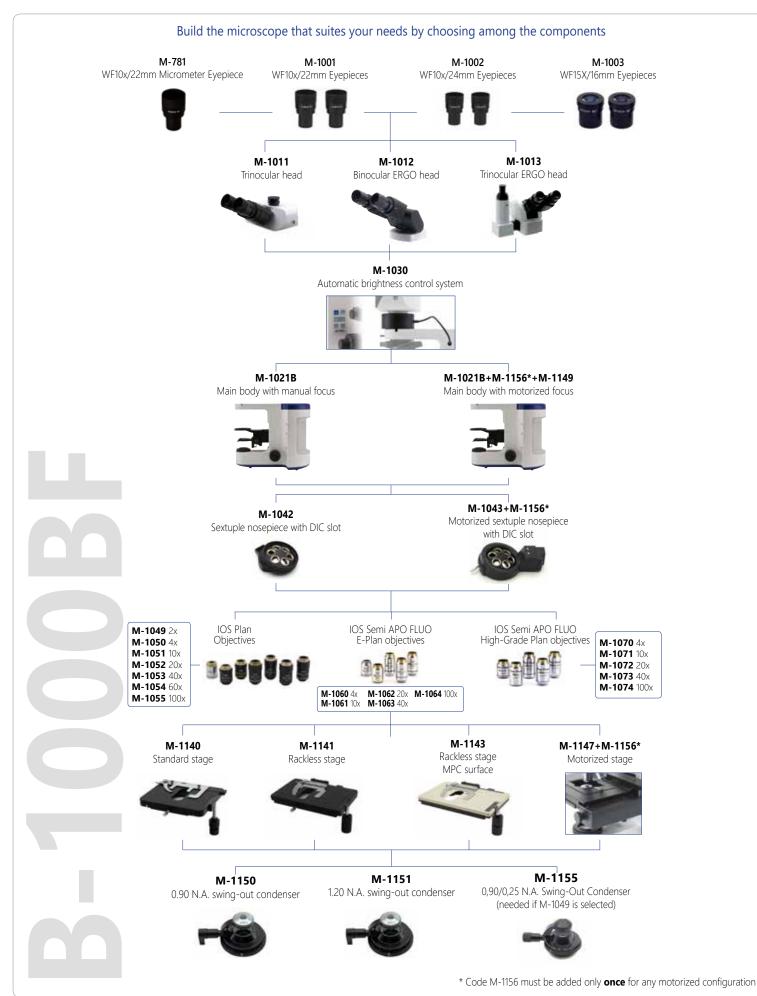
B-1000BF

Brightfield Research Microscope

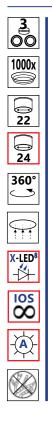
Laboratory microscope for routine and research applications with dye-cast frame for high stability, excellent ergonomy and transmitted light (X-LED8 system) observation. Fully modular, B-1000 Series gives multiple options of configuration: manual or motorized system, with the possibility of automatic brightness control system and a wide variety of objectives and stages.



B-1000BF - Configuration Chart



B-1000PH - Overview

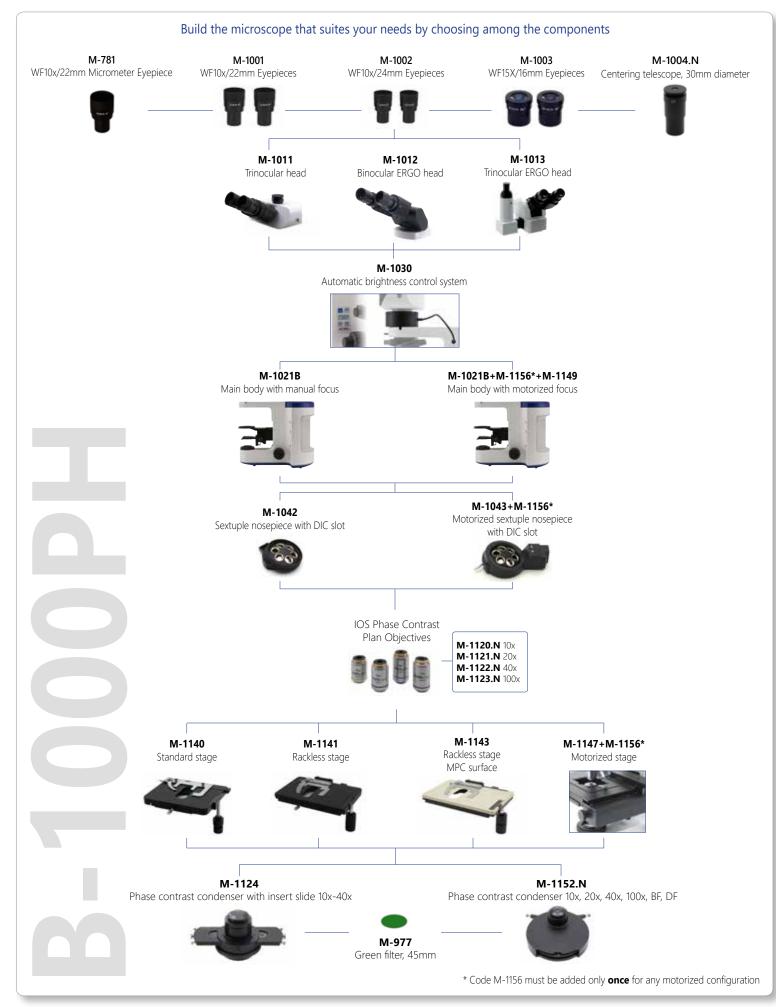


Phase Contrast Research Microscope

Laboratory microscope for routine and research applications with dye-cast frame for high stability, excellent ergonomy and transmitted light (X-LED8 system) observation.

Fully modular, B-1000 Series gives multiple options of configuration in phase contrast mode: manual or motorized system, with the possibility of automatic brightness control system and a wide variety of objectives and stages.

B-1000PH - Configuration Chart



B-1000FL-LED - Overview

LED Fluorescence Research Microscope Laboratory microscope for routine and research

system) and incident light observation.

variety of objectives and stages.

applications with dye-cast frame for high stability,

excellent ergonomy and both transmitted (X-LED8

Fully modular, B-1000 Series gives multiple options of

configuration: manual or motorized system, plus a wide



OPTIKA B

Dedicated version for LED epi-fluorescence analysis with transmitted (X-LED8, 8W power) and epi-fluorescence (special attachment with built-in high-power colored LEDs) illumination.

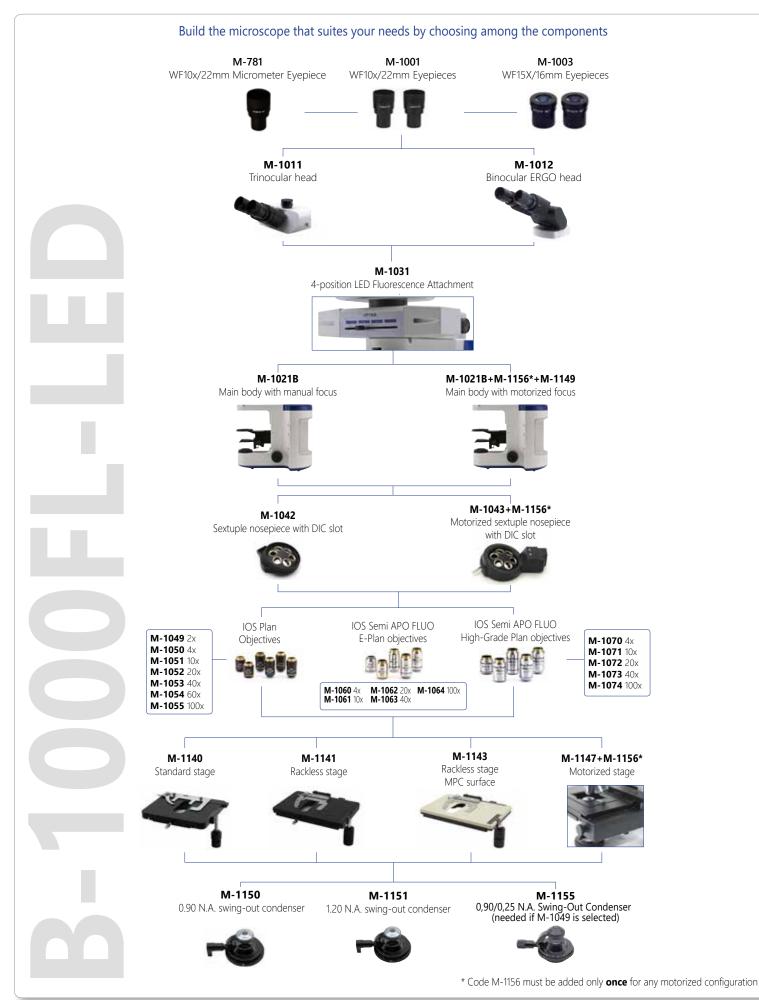
- Eliminate warm-up/cool down times
- Pre-centered system
- Extended LED lifetime
- Reduced power consumptions
- Lowest operational costs ensured



Standard filtersets (included)

Name	Excitation wavelength (nm)	Dichroic mirror cut-off (nm)	Barrier filter wavelength (nm)
B (Blue)	450-490	495	520LP
G (Green)	500-540	565	575LP

B-1000FL-LED - Configuration Chart



B-1000FL-HBO - Overview



HBO Fluorescence Research Microscope

Laboratory microscope for routine and research applications with dye-cast frame for high stability, excellent ergonomy and both transmitted (X-LED8 system) and incident light observation, with the possibility to use several filters.

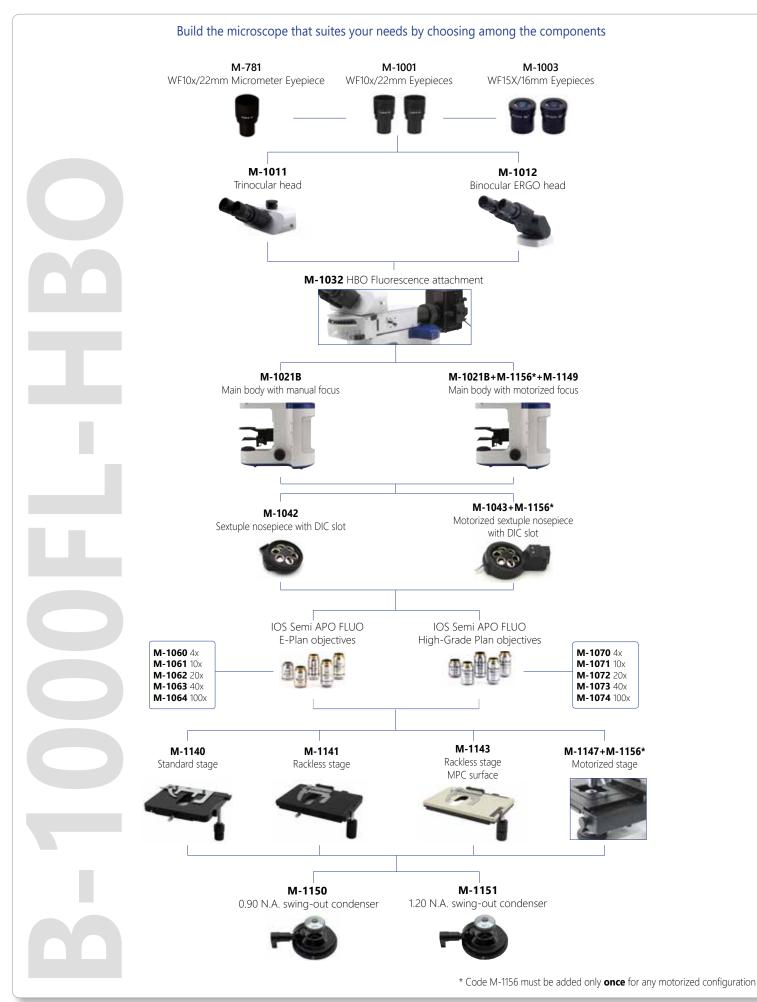
Fully modular, B-1000 Series gives multiple options of configuration: manual or motorized system, plus a wide variety of objectives and stages.

BG

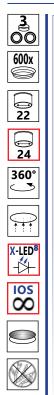
OPTIKA

OPTIKA

B-1000FL-HBO - Configuration Chart



B-1000POL - Overview





Dedicated version for transmitted (X-LED[®], 8W power) illumination and polarization analysis.

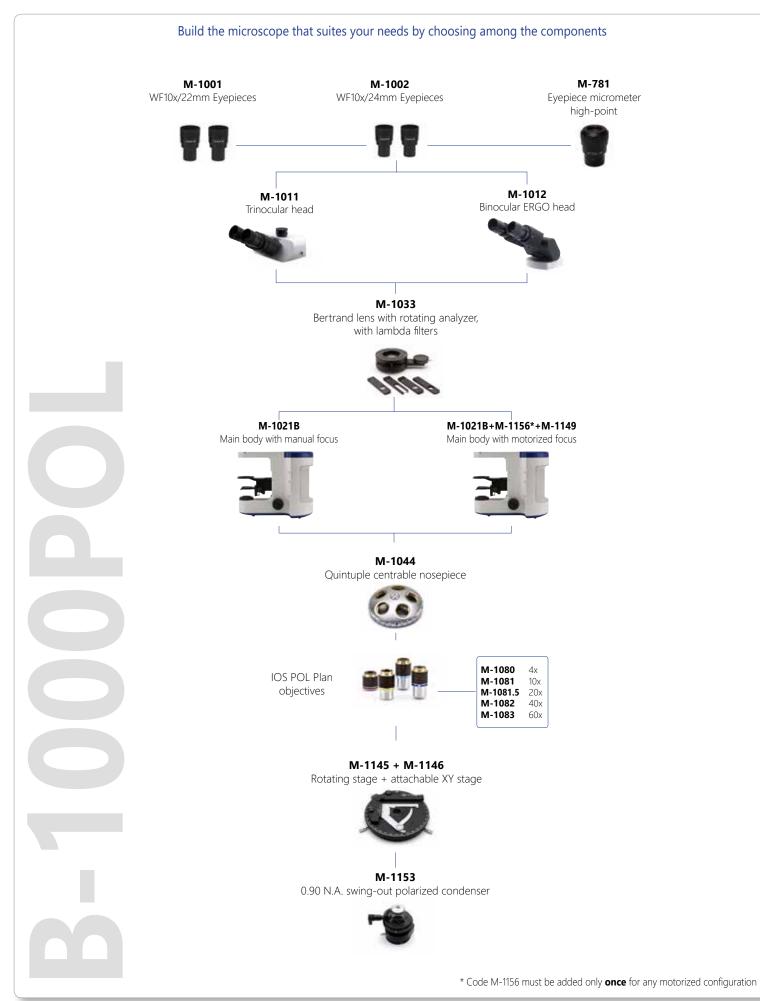


Laboratory microscope for routine and research applications with dye-cast frame for high stability, excellent ergonomy and transmitted (X-LED8 system) light observation.

Fully modular, B-1000 Series gives multiple options of configuration, including manual or motorized system.



B-1000POL - Configuration Chart



B-1000POL-I - Overview

Transmitted & Incident Polarizing

high-power white LED) light observation.

Laboratory microscope for routine and research applications with dye-cast frame for high stability, excellent ergonomy

and transmitted (X-LED8 system) and incident (specific

Fully modular, B-1000 Series gives multiple options of configuration, including manual or motorized system.

Research Microscope



Dedicated version for transmitted (X-LED⁸, 8W power) and incident (special attachment with built-in high-power white LED) illumination.



B-1000POL-I - Configuration Chart



B-1000MET - Overview

Metallurgical Research Microscope

Laboratory microscope for routine and research applications with dye-cast frame for high stability, excellent ergonomy and transmitted (X-LED8 system) and incident (100W halogen lamp) light observation.

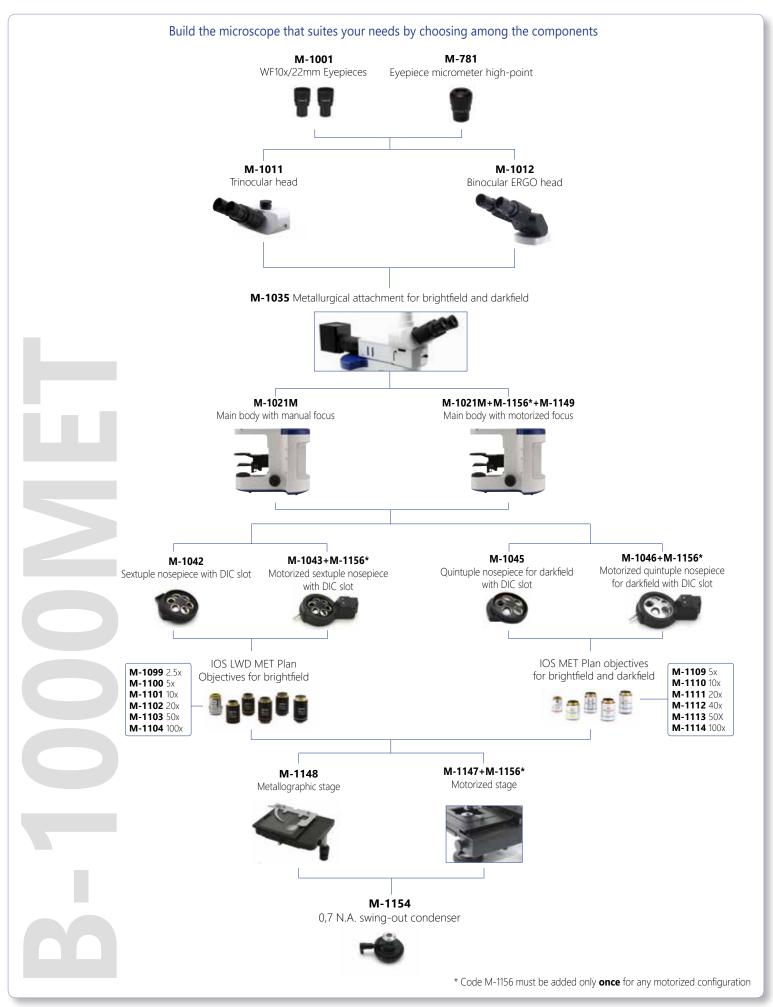
Fully modular, B-1000 Series gives multiple options of configuration, including manual or motorized system and two lines of MET objectives (one both for brightfield and darkfield).

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B-1000MET - Configuration Chart



B-1000 Series - Overview

Teaching and discussion microscopes provide the ability for multiple people to view a specimen simultaneously - perfect for the teaching environment. The main head is equipped with an LED movable pointer to make it easier to show students specific aspects of samples while simultaneously looking through the microscope. Options are available for up to 10 heads on a multi-head teaching microscope system:

- B-1000Ti-2 multi-head microscope for 2 users
- B-1000Ti-3 multi-head microscope for 3 users
- B-1000Ti-5 multi-head microscope for 5 users
- B-1000Ti-10 multi-head microscope for 10 users





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B-1000 Multi-Head - Configuration Chart



B-800 Series - Accessories

M-1001 M-781 M-1003	EYEPIECES WF10x/22mm eyepieces (pair) WF10x/22mm micrometer eyepiece (10mm, 0.1mm div.) WF15X/16mm eyepieces (Pair)
M-1010 M-1012 M-1013	HEADS Trinocular Head (2 positions) Binocular ERGO head Trinocular ERGO head
M-1020	MAIN BODY Main body with focus system and X-LED3 illumination
M-1040 M-1041	NOSEPIECES Quintuple nosepiece for RMS objectives Sextuple nosepiece for RMS objectives
M-1050 M-1051 M-1052 M-1053 M-1054 M-1055	OBJECTIVES IOS W-Plan objective 4x/0.10 IOS W-Plan objective 10x/0.25 IOS W-Plan objective 20x/0.40 IOS W-Plan objective 40x/0.65 IOS W-Plan objective 60x/0.80 IOS W-Plan objective 100x/1.25 (Oil)
M-1060 M-1061 M-1062 M-1063 M-1064	IOS W-Plan semi-Apo objective 4x/0.13 IOS W-Plan semi-Apo objective 10x/0.30 IOS W-Plan semi-Apo objective 20x/0.50 IOS W-Plan semi-Apo objective 40x/0.75 IOS W-Plan semi-Apo objective 100x/1.30 (Oil)
M-1120.N M-1121.N M-1122.N M-1123.N	IOS W-Plan Ph objective 10x/0.25 IOS W-Plan Ph objective 20x/0.40 IOS W-Plan Ph objective 40x/0.65 IOS W-Plan Ph objective 100x/1.25 (Oil)
M-1140 M-1141 M-1143 M-1144	STAGES Standard Mechanical Stage Belt Drive Mechanical Stage MPC (Mineral Solid Surface) Belt Drive Mechanical Stage Heating Stage
M-1150 M-1151 M-1124 M-1152.N M-618	CONDENSERS 0,90 N.A. Swing-Out Condenser 1,25 N.A. Swing-Out Condenser Phase Contrast Condenser with insert slide 10x-40x Phase Contrast Condenser 10x, 20x, 40x, 100x, BF and DF Darkfield Condenser for dry objectives
M-1004.N M-005 M-613 M-615 M-977 M-690 M-619 M-619 M-620 M-620 M-620.1 M-620.2 M-113.1 M-114 M-115	ACCESSORIES Centering telescope, 30mm diameter Micrometric slide, 26x76mm, range 1mm, div. 0,01mm Polarizing set (filters only) Lambda filter for polarizing set Green filter, 45mm diameter Eyecup (pair) Photo adapter for REFLEX camera with FULL FRAME sensor Photo adapter for APS-C and FULL FRAME Reflex cameras Universal adapter for M-114, M-116, M-173 and eyepiece cameras Focusable C-Mount adapter for 1/3" sensor Focusable C-Mount adapter for 1/2" sensor Focusable C-Mount adapter for 2/3" sensor Ring adapter, 30mm (for monocular and binocular microscopes) C-Mount adapter for 1/2" sensor.

- M-116
- C-Mount adapter for 2/3" sensor. Phase contrast set with IOS PLAN objective 40x M-617.1N
- 15104 OPTIKA lens cleaning kit
- 15008 OPTIKA immersion oil, 10ml





B-1000 Series - Accessories

M-1001 M-781 M-1002 M-1003	EYEPIECES WF10x/22mm eyepiece (pair) WF10x/22mm micrometer eyepiece (10mm, 0.1mm div.) WF10x/24mm eyepiece (pair) WF15X/16mm (pair)
M-1011 M-1012 M-1013	HEADS Trinocular Head (3 positions) Binocular ERGO head Trinocular ERGO head
M-1021B M-1021M M-1156 M-1149	MAIN BODY Main body with focus system and X-LED8 illumination, general purpose Main body with focus system and X-LED8 illumination, for Metallurgical model Upgrade (controller) for any kind of motorization (stage, Z-axis, nosepiece, or all of them together) Motorization of Z-axis
M-1030 M-1031 M-1032 M-1033 M-1034 M-1035	ATTACHMENTS Automatic Brightness Control System 4-Position LED Fluorescence attachment, with standard Blue and Green filtersets (FITC & TRITC) 6-Position HBO Fluorescence attachment, with standard Blue and Green filtersets (FITC & TRITC) Bertrand Lens with Analyzer and slot for slides (with Lambda, 1/4 Lambda and Quartz Edge) Incident Polarizing Attachment Metallurgical Attachment
M-1042 M-1043 M-1044 M-1045 M-1046	NOSEPIECES Sextuple nosepiece for RMS objectives with DIC slot Sextuple motorized nosepiece for RMS objectives with DIC slot Quintuple nosepiece with centrable positions for POL objectives Quintuple nosepiece for Darkfield MET objectives, with 3 adater rings for RMS objectives with DIC slot Quintuple motorized nosepiece for Darkfield MET objectives, with 3 adapter rings for RMS objectives with DIC slot
M-1049 M-1050 M-1051 M-1052 M-1053 M-1054 M-1055 M-1060 M-1061 M-1062 M-1063	OBJECTIVES IOS W-plan objective 2x/0.08 (Not for B-1000Ph, B-1000Pol, B-1000Pol-i and B-1000MET) IOS W-Plan objective 4x/0.10 IOS W-Plan objective 10x/0.25 IOS W-Plan objective 20x/0.40 IOS W-Plan objective 40x/0.65 IOS W-Plan objective 60x/0.80 IOS W-Plan objective 100x/1.25 (Oil) IOS W-Plan semi-Apo objective 4x/0.13 IOS W-Plan semi-Apo objective 10x/0.30 IOS W-Plan semi-Apo objective 20x/0.50 IOS W-Plan semi-Apo objective 40x/0.75 IOS W-Plan semi-Apo objective 40x/0.75
M-1064 M-1070 M-1071 M-1072 M-1073 M-1074	IOS W-Plan semi-Apo objective 100x/1.30 (Oil) IOS U-Plan semi-Apo high-grade objective 4x/0.13 IOS U-Plan semi-Apo high-grade objective 10x/0.30 IOS U-Plan semi-Apo high-grade objective 20x/0.50 IOS U-Plan semi-Apo high-grade objective 40x/0.75 IOS U-Plan semi-Apo high grade objective 100x/1.30 (Oil)
M-1080 M-1081 M-1081.5 M-1082 M-1083	IOS W-Plan Pol objective 4x/0.10 IOS W-Plan Pol objective 10x/0.25 IOS W-Plan Pol objective 20x/0.45 IOS W-Plan Pol objective 40x/0.65 IOS W-Plan Pol objective 60x/0.85
M-1090 M-1091 M-1092 M-1093	IOS W-Plan lwd Pol objective 5x/0.15 IOS W-Plan lwd Pol objective 10x/0.30 IOS W-Plan lwd Pol objective 20x/0.45 IOS W-Plan lwd Pol objective 50x/0.75

IOS W-Plan lwd Pol objective 50x/0.75

M-1101	IOS W-Plan lwd Met objective 10x/0.3, For brightfield
M-1102	IOS W-Plan lwd Met objective 20x/0.45,For brightfield
M-1103	IOS W-Plan lwd Met objective 50x/0.55, For brightfield
M-1104	IOS W-Plan lwd Met objective 100x/0.80 (Dry), for brightfield
M-1109	IOS W-Plan Met objective 5x/0.12, for darkfield
M-1110	IOS W-Plan Met objective 10x/0.25, for darkfield
M-1111	IOS W-Plan Met objective 20x/0.40, for darkfield
M-1112	IOS W-Plan Met objective 40x/0.60, for darkfield
M-1112 M-1113	IOS W-Plan Met objective 400/0.00, for darkfield

IOS W-Plan lwd Met objective 5x/0.15, For brightfield

IOS W-Plan lwd Met objective 2,5x/0.08 (with depolarizer), for brightfield

- M-1114 IOS W-Plan Met objective 100x/0.80 (dry), for darkfield
- M-1120.N IOS W-Plan Ph objective 10x/0.25
- IOS W-Plan Ph objective 20x/0.40 M-1121.N
- M-1122.N IOS W-Plan Ph objective 40x/0.65
- M-1123.N IOS W-Plan Ph objective 100x/1.25 (Oil)

STAGES

M-1099

M-1100

- M-1140 Standard Mechanical Stage
- Belt Drive Mechanical Stage M-1141
- M-1143 MPC (Mineral Solid Surface) Belt Drive Mechanical Stage
- M-1144 Heating Stage
- M-1145 Rotating Stage, centrable
- M-1146 Attachable mechanical stage for rotating Stage
- M-1147 Motorized mechanical Stage
- M-1148 Metallurgical Stage, with glass

CONDENSERS

- M-1150 0,90 N.A. Swing-Out Condenser
- M-1155 0.9/0.25 NA Swing-Out Condenser (to be used with objective M-1049)
- M-1151 1,25 N.A. Swing-Out Condenser
- M-1124 Phase contrast condenser with insert slide 10x-40x
- M-1152.N Phase contrast condenser 10x, 20x, 40x, 100x, BF and DF
- M-1153 0,90 N.A. Swing-Out POL Condenser
- M-1154 0,70 N.A. Swing-Out MET Condenser
- M-618 Darkfield condenser for dry objectives

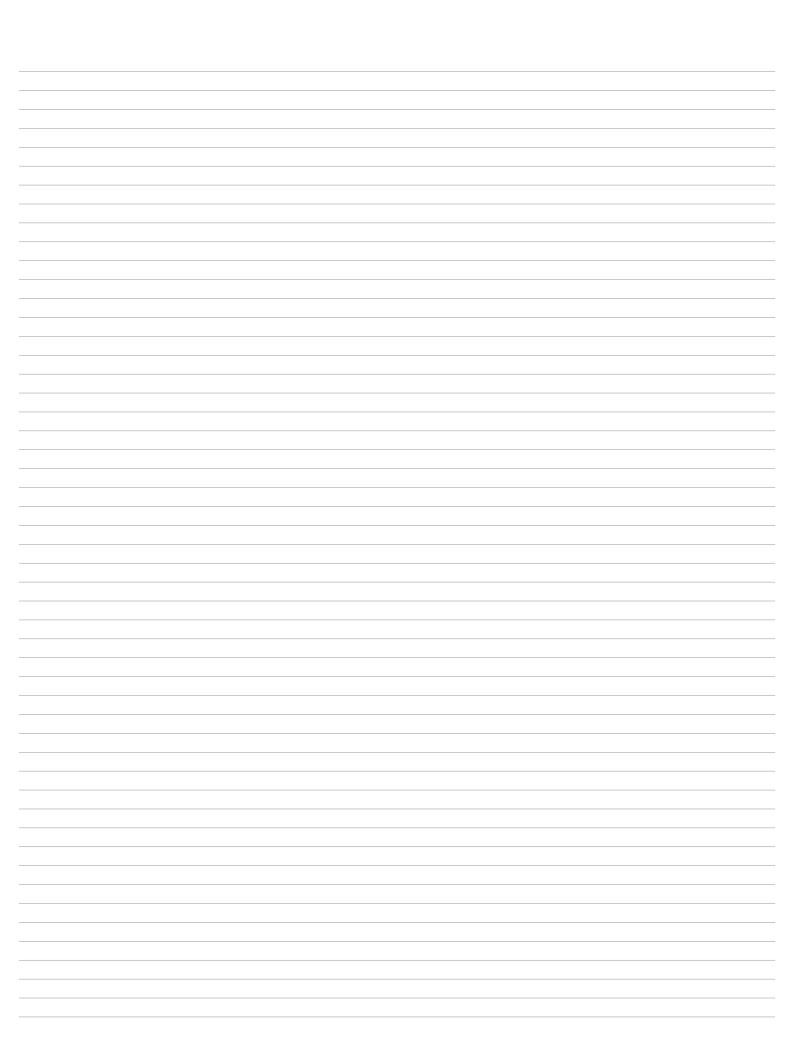
MULTI-HEAD ATTACHMENTS

- M-1160 2-Head attachment
- M-1161 3-Head Attachment
- M-1162 5-Head Attachment
- M-1163 10-Head attachment

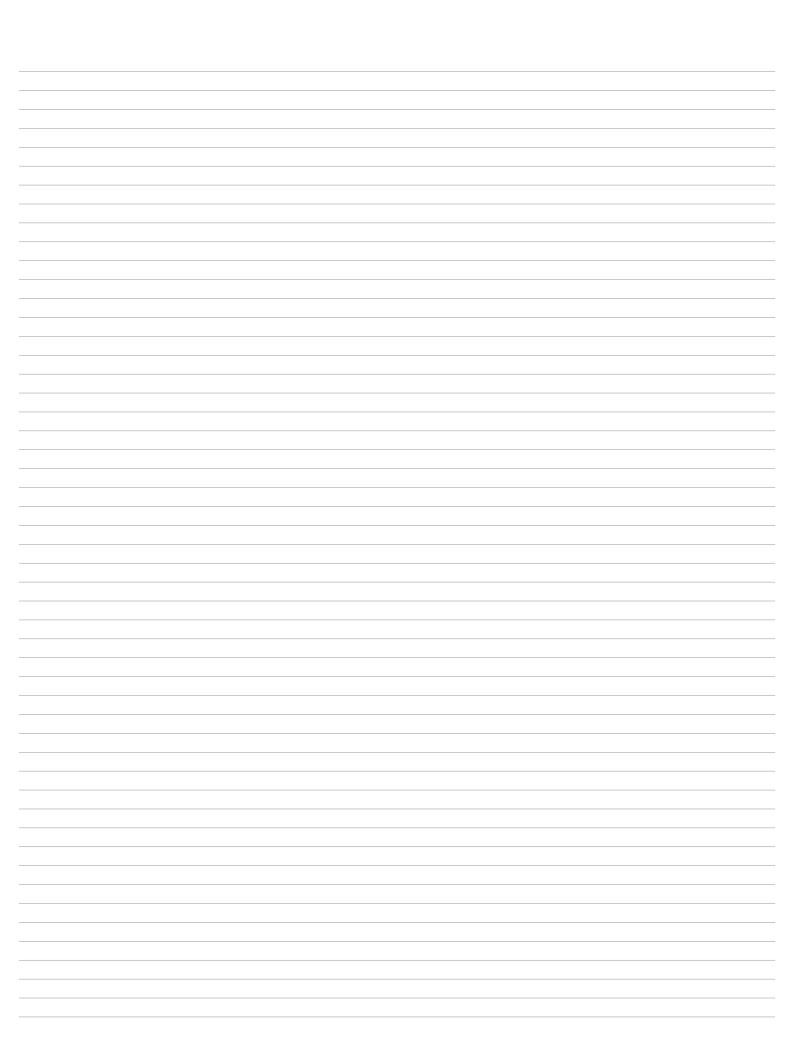
ACCESSORIES

M-1004.N Centering telescope, 30mm diameter M-005 Micrometric slide, 26x76mm, range 1mm, div. 0,01mm M-613 Polarising set (Polarizer and Analyzer filters) M-615 Lambda filter for polarizing set Phase Contrast set with IOS PLAN objective 40x M-617.1N M-977 Green filter, 45mm diameter M-ND25 Neutral density filter ND25 (for B-1000FL-HBO) M-690 Evecup (pair) M-619 Photo adapter for REFLEX camera, with FULL FRAME sensor M-173 Photo adapter for APS-C and FULL FRAME Reflex cameras M-699 Universal adapter for M-114, M-116, M-173 and eyepiece cameras M-620 Focusable C-Mount adapter for 1/3" sensor M-620.1 Focusable C-Mount adapter for 1/2" sensor M-620.2 Focusable C-Mount adapter for 2/3" sensor M-113.1 Ring adapter, 30mm (for monocular and binocular microscopes) M-114 C-Mount adapter for 1/2" sensor. M-115 C-Mount adapter for 1/3" sensor. M-116 C-Mount adapter for 2/3" sensor. M-151 HBO 100W high-pressure mercurybulb for fluorescence CL-35 Halogen Lamp 24V 100W (only for metallurgical attachment M-1035) M-1164 Empty fluorescence filterblock for B-1000 FL HBO M-1165 Fluorescence filterset V (filterblock included) for B-1000 FL HBO M-1166 Fluorescence filterset UV-DAPI (filterblock included) for B-1000 FL HBO 15104 **OPTIKA** lens cleaning kit 15008 OPTIKA immersion oil, 10ml

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Headquarters and Manufacturing Facilities

OPTIKA[®] S.r.I. Via Rigla, 30 - 24010 Ponteranica (BG) - ITALIA - Tel.: +39 035.571.392 - Fax: +39 035.571.435 - info@optikamicroscopes.com

Optika Sales branches

OPTIKA[®] Spain **OPTIKA**[®] China **OPTIKA**[®] India

spain@optikamicroscopes.com china@optikamicroscopes.com india@optikamicroscopes.com

OPTIKA[®] USA

usa@optikamicroscopes.com **OPTIKA**[®] **Hungary** hungary@optikamicroscopes.com