

OPTIKA

M I C R O S C O P E S
I T A L Y



B-600 SERIES

Biological microscope for research



B-600 SERIES



Italian headquarters

Optika Microscopes is the optical microscopy division of M.A.D. Apparecchiature Scientifiche, a Company established over 30 years ago as a key actor in the field of scientific instrumentation.

A team of 60 people in 4 European locations works on the development of new models, on production, on quality control, on supply and aftersales services. A network of local distributors extends to the end users the Optika excellence in quality, innovation, competitive prices and assistance.

To the present day, Optika Microscopes offers more than 80 different microscope models, with full accessories, for the most diverse fields of optical microscopy. A challenging market, that Optika Microscopes approaches with professionalism and commitment.

The series

With the series B-600, OPTIKA Microscopes sets a new record in the quality-to-price ratio.

The extraordinary characteristics of a series of highly professional microscopes are now within reach for all laboratories, thereby meeting the needs of those who are looking for a prime quality instrument, even though they do not have considerable budgets available.

The series B-600 microscopes are instruments specifically designed for use in a laboratory, where high optical and mechanical quality as well as sturdiness to guarantee longer life is required.



**NEW 30/60°
ERGONOMIC HEAD**

B-600 SERIES



Optical system & objectives

The series B-600 microscopes are equipped, depending on the various models, with two different types of optical system: 160 mm standard and infinity corrected system (IOS).

In both cases the field diameter of the system is 22 mm.

All models in the B-600 series are equipped with plan achromatic objectives.

The models with IOS system have mounted plan achromatic objectives corrected to infinity.

Depending on the models, different sets of objectives are included in the package.



Microscope stand

The modern stand design, with accessible and ergonomic controls, complements and enhances the instrument's usability.

Heads

They are available in binocular and in trinocular version suitable for photography/video applications.

Both heads are equipped with interpupillary distance control (51-78 mm) as well as with dioptric compensation that takes place on the left eyepiece holder tube.

EWF10x/22 eyepieces also suitable for people wearing spectacles. All heads are 360° rotatable and 30° inclined.



Condenser

Included in the package is an Abbe type condenser with double numerical aperture 0,22/1,22 selectable by means of a dedicate knob. It can be centred through a double-control system and adjusted in height through a rack-and-pinion mechanism by means of control knobs located on both sides of the microscope stand.

The condenser is also fitted with an iris diaphragm whose aperture can be adjusted through a ring nut with graduated reference scale.

Specimen stage

This large-sized (175x145mm) stage is fitted with a graduated translation mechanism (double 0.1 mm vernier) operated by a rack-and-pinion system with coaxial controls mounted in a comfortable position beneath the specimen stage.

The object slide clamp accepts up to two specimens at the same time. The standard rectangular stage may be replaced by a rotating stage for polarized light (optional feature).



B-600 SERIES

Microscope stand

Modern and ergonomic, this stand is made from die-cast aluminium. Macro and micrometric focusing (graduated, 0.002mm) with coaxial controls.

Adjustable focusing tension and upper sliding stop.

Illuminator

The illuminating system consists of an external illuminator fitted with a 50W halogen lamp.

The luminous intensity regulation takes place through a rheostat located on the left-hand side of the microscope base. The presence of a field diaphragm permits to obtain a system according to the Köhler scheme.



B-600T

B-600Biph



NEW

HBO 100W high-pressure mercury bulb for fluorescence

Model	Head	Eyepiece	Objectives	Revolver	Stage	Focusing	Condenser	Illuminator
B-600B	Binocular 360° rotating 30° inclined	Wide Field 10X / 22 mm	Plan Achromatic 4x, 10x, 40x, 100x (oil immersion)	Quintuple reversed	Double layer with mechanical sliding stage, 175x145 mm	Coaxial coarse and fine focusing system, with focusing stop mechanism	1.25 N.A. Abbe type, with cen- tring system	External high efficiency Halogen 50W dichroic bulb
B-600T	Trinocular 360° rotating 30° inclined	Wide Field 10X / 22 mm	Plan Achromatic 4x, 10x, 40x, 100x (oil immersion)	Quintuple reversed	Double layer with mechanical sliding stage, 175x145 mm	Coaxial coarse and fine focusing system, with focusing stop mechanism	1.25 N.A. Abbe type, with cen- tring system	External high efficiency Halogen 50W dichroic bulb
B-600Bph	Binocular 360° rotating 30° inclined	Wide Field 10X / 22 mm	Plan Achromatic for phase contrast 10x, 20x, 40 ,100x (oil immersion)	Quintuple reversed	Double layer with mechanical sliding stage, 175x145 mm	Coaxial coarse and fine focusing system, with focusing stop mechanism	1.25 N.A. Abbe type, with cen- tring system	External high efficiency Halogen 50W dichroic bulb
B-600Tph	Trinocular 360° rotating 30° inclined	Wide Field 10X / 22 mm	Plan Achromatic for phase contrast 10x, 20x, 40 ,100x (oil immersion)	Quintuple reversed	Double layer with mechanical sliding stage, 175x145 mm	Coaxial coarse and fine focusing system, with focusing stop mechanism	1.25 N.A. Abbe type, with cen- tring system	External high efficiency Halogen 50W dichroic bulb
B-600Bi	Binocular 360° rotating 30° inclined	Wide Field 10X / 22 mm	Plan Achromatic IOS 4x, 10x, 20x, 40 ,100x (oil immersion)	Quintuple reversed	Double layer with mechanical sliding stage, 175x145 mm	Coaxial coarse and fine focusing system, with focusing stop mechanism	1.25 N.A. Abbe type, with centring system, disc condenser for phase contrast	External high efficiency Halogen 50W dichroic bulb
B-600Ti	Trinocular 360° rotating 30° inclined	Wide Field 10X / 22 mm	Plan Achromatic IOS 4x, 10x, 20x, 40 ,100x (oil immersion)	Quintuple reversed	Double layer with mechanical sliding stage, 175x145 mm	Coaxial coarse and fine focusing system, with focusing stop mechanism	1.25 N.A. Abbe type, with centring system, disc condenser for phase contrast	External high efficiency Halogen 50W dichroic bulb
B-600Biph	Trinocular 360° rotating 30° inclined	Wide Field 10X / 22 mm	Plan Achromatic IOS for phase contrast 10x, 20x, 40 ,100x (oil immersion)	Quintuple reversed	Double layer with mechanical sliding stage, 175x145 mm	Coaxial coarse and fine focusing system, with focusing stop mechanism	1.25 N.A. Abbe type, with cen- tring system	External high efficiency Halogen 50W dichroic bulb
B-600Tiph	Trinocular 360° rotating 30° inclined	Wide Field 10X / 22 mm	Plan Achromatic IOS for phase contrast 10x, 20x, 40 ,100x (oil immersion)	Quintuple reversed	Double layer with mechanical sliding stage, 175x145 mm	Coaxial coarse and fine focusing system, with focusing stop mechanism	1.25 N.A. Abbe type, with cen- tring system	External high efficiency Halogen 50W dichroic bulb
NEW B-600TiFL	Trinocular 360° rotating 30° inclined	Wide Field 10X / 22 mm	IOS Fluor plan Achromatic 4x, 10x, 20x, 40x	Quintuple reversed	Double layer with mechanical sliding stage, 175x145 mm	Coaxial coarse and fine focusing system, with focusing stop mechanism	1.25 N.A. Abbe type, with cen- tring system	HBO100W high-pressure mercury bulb for fluorescence

A complete range of instruments

B-600 SERIES

A wide range of optional accessories is available in order to extend the possibilities offered by the series B-600 instruments: various contrast types, additional optics and accessories for all photography/video applications, including the possibility of using the digital camera.



OPTIKAM

DIGI

The B-600 series can be connected to our Optikam and DIGI systems by using additional accessory. For T-mount (reflex) and C-mount cameras, specific adaptors are readily available.



Accessories



M-680	30°-60° Ergo binocular head
M-625	EWF10x/22mm eyepiece
M-601	WF15x/16mm eyepiece
M-602	Micrometer eyepiece EWF10x/22mm
M-005	26x76 mm micrometric slide. Range 1 mm, div. 0,01 mm
M-603	4x plan achromatic objective
M-604	10x plan achromatic objective
M-605	20x plan achromatic objective
M-606	40x plan achromatic objective
M-689	60x plan achromatic objective
M-607	100x plan achromatic objective
M-608	4x IOS plan achromatic objective
M-609	10x IOS plan achromatic objective
M-610	20x IOS plan achromatic objective
M-611	40x IOS plan achromatic objective
M-612	100x IOS plan achromatic objective
M-630	10x plan achromatic objective for phase contrast
M-631	20x plan achromatic objective for phase contrast
M-632	40x plan achromatic objective for phase contrast
M-633	100x plan achromatic objective for phase contrast
M-760	10x IOS plan achromatic objective for phase contrast
M-761	20x IOS plan achromatic objective for phase contrast
M-762	40x IOS plan achromatic objective for phase contrast
M-763	100x IOS plan achromatic objective for phase contrast
M-681	4x IOS FLUOR plan achromatic objective
M-682	10x IOS FLUOR plan achromatic objective
M-683	20x IOS FLUOR plan achromatic objective
M-684	40x IOS FLUOR plan achromatic objective
M-685	100x IOS FLUOR plan achromatic objective
M-613	Polarising set (filters only)
M-615	Lambda filter for polarising set
M-614	Rotating table for polarising set
M-618	Darkfield condenser for dry objectives
M-616	Complete phase contrast set with plan obj. 10x, 20x, 40x, 100x
M-617	Complete phase contrast set with plan IOS obj. 10x, 20x, 40x, 100x
M-666	Heating stage, with digital temperature controller
M-619	Photo tube adapter for SRL cameras
M-699	Photo tube adapter for DIGI digital camera series
M-620	CCD camera adapter
M-621	6V/30W halogen bulb
M-622	12V/50W halogen bulb
M-151	HBO100W high-pressure mercury bulb for fluorescence
M-670	Empty fluorescence filterblock
M-671	Fluorescence filterblock V
M-672	Fluorescence filterblock UV
M-673	Fluorescence filterblock DAPI
M-674	Fluorescence filterblock GFP
M-034	Dust cover type 5
M-975	Blue filter, 45 mm diameter
M-977	Green filter, 45 mm diameter
M-979	Yellow filter, 45 mm diameter
M-989	Frosted glass filter, 45 mm diameter
M-690	Eyecup (pair)

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