

OPTIKA

M I C R O S C O P E S

I T A L Y



FLUO SERIES



Upright and Inverted Epi-Fluorescence Microscopes

OPTIKA

FLUO 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.

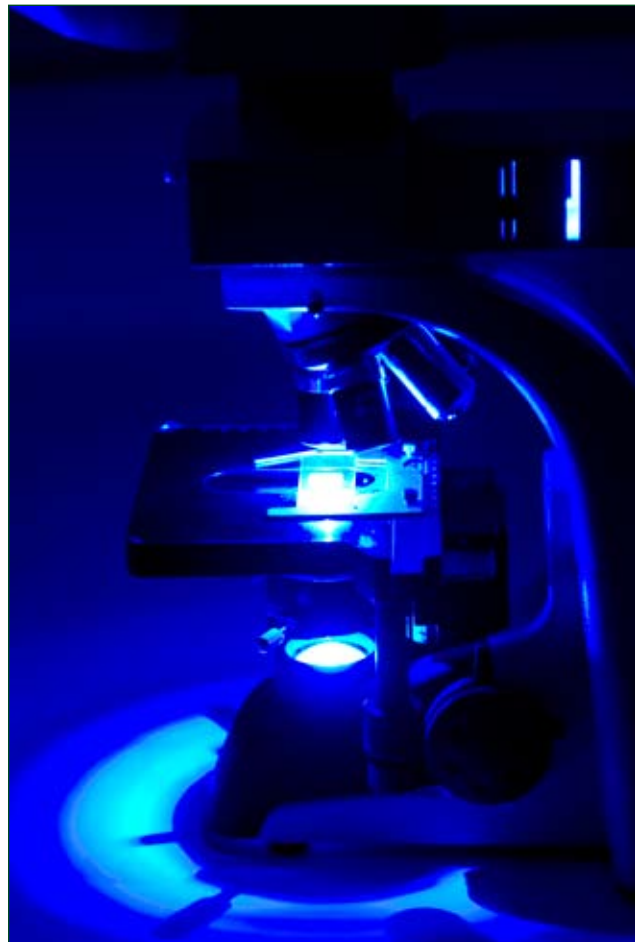
A network of local distributors extends to the end users the Optika excellence in quality, innovation, competitive prices and assistance.

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

A complete range of microscopes, designed to meet your needs in fluorescence microscopy.

Quality, innovative technology, power, safety and simplicity of use are the common characteristics of these instruments.



FLUO SERIES - LED Fluorescence

Imagine a fluorescence microscope that needs a lamp change every 50.000 hours.

Imagine a fluorescence microscope with a cold light source that barely heats up during use.

Imagine a fluorescence microscope that can be switched on, used immediately, switched off and then back on again.

Imagine a fluorescence microscope that is so safe as to need no protection shield whatsoever, and that can be used by anyone, without any specific precaution.

Imagine a fluorescence microscope that can be powered by batteries, as easily as a torchlight.

Imagine a fluorescence microscope that is so sturdy and so compact that it can be used on the field, with any transport problems.

You may think that such an instrument exists in your imagination only. Actually, such microscope is real, and its name is OPTIKA B-350LD.

Developed by the OPTIKA Research labs, B-350LD marks a revolution in the field of fluorescence microscopy.

Strictly derived from model B-350FL, from which it shares the body, the optics and the filter sets, B-350LD employs high-power LED's instead of the classical mercury vapour lamp. The LED's are tailored to the specific applications (FITC-TRITC).

The brightfield illuminator uses our **X-LED™** system, and the colour temperature closely matches sunlight.

The microscope is available in two versions: B-353LD1 and B-353LD2

B-353LD1 - Technical specifications

Part	Description
Optical system	Mechanical tube length: IOS - Infinity Optical System; parfocal distance 45 mm.
Head	Trinocular, 30° inclined, 360° rotating. Diopter adjustment; interpupillary distance adjustment 55-75 mm.
Eyepieces	Wide Field WF20x/18 mm.
Nosepiece	5-position reversed revolving nosepiece. Ball bearing linear guides.
Objectives	IOS Planachromatic 4x/0.1, 10x/0.25, 20x/0.40, 40x/0.65 and 50x/0.75 (no cover slide).
Specimen stage	Double layer with mechanical sliding stage, 160x142 mm; moving range 76x52 mm.
Focusing system	Rack and pinion mechanism, with coaxial coarse and fine control knobs. Fine adjustment graduation 0.002 mm. Vertical movement range: 20 mm. Tension control on right side; upper stage drive stop on left side.
Condenser	Centrable Abbe condenser with double lens. N.A. 1.25. Fitted with iris diaphragm, blue filter and filter holder. Height adjustment by a rack and pinion mechanism.
Illumination	X-LED™ unit for transmitted light. High power LED unit for epi-fluorescence (for standard use with B).

Standard filterset

Name	Excitation wavelength (nm)	Dichroic mirror cutoff (nm)	Barrier filter cutoff (nm)
B (Blue)	450 – 480	500	515

B-353LD2 - Technical specifications

Part	Description
Optical system	Mechanical tube length: IOS - Infinity Optical System; parfocal distance 45 mm.
Head	Trinocular, 30° inclined, 360° rotating. Diopter adjustment; interpupillary distance adjustment 55-75 mm.
Eyepieces	Wide Field WF20x/18 mm.
Nosepiece	5-position reversed revolving nosepiece. Ball bearing linear guides.
Objectives	IOS Planachromatic 4x/0.1, 10x/0.25, 20x/0.40, 40x/0.65 and 50x/0.75 (no cover slide).
Specimen stage	Double layer with mechanical sliding stage, 160x142 mm; moving range 76x52 mm.
Focusing system	Rack and pinion mechanism, with coaxial coarse and fine control knobs. Fine adjustment graduation 0.002 mm. Vertical movement range: 20 mm. Tension control on right side; upper stage drive stop on left side.
Condenser	Centrable Abbe condenser with double lens. N.A. 1.25. Fitted with iris diaphragm, blue filter and filter holder. Height adjustment by a rack and pinion mechanism.
Illumination	X-LED™ unit for transmitted light. High power LED unit for epi-fluorescence (for standard use with B and G).

Standard filtersets

Name	Excitation wavelength (nm)	Dichroic mirror cutoff (nm)	Barrier filter cutoff (nm)
B (Blue)	450 – 480	500	515
G (Green)	510 – 550	570	590

FLUO SERIES - LED Fluorescence

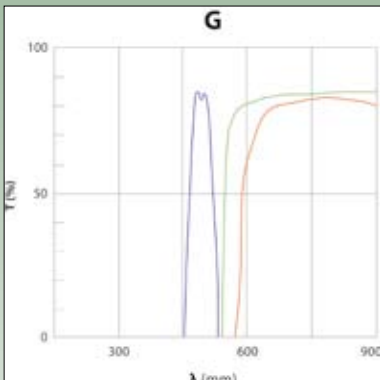
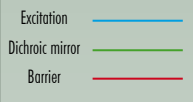
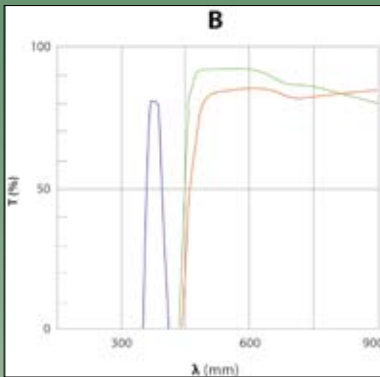


LED FLUORESCENCE



B-353LD1

B-353LD2



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