

## FLUO Series

Upright and inverted epi-fluorescence microscopes

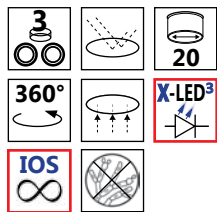


# FLUO Series

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.

<b>B-383LD1</b>	Trinocular LED fluorescence microscope, E-PLAN IOS objectives, B filterset.
<b>B-383LD2</b>	Trinocular LED fluorescence microscope, E-PLAN IOS objectives, B&G filtersets.
<b>B-383FL</b>	Trinocular HBO fluorescence microscope, E-PLAN IOS objectives, B&G filtersets.
<b>SZP-FL</b>	HBO fluorescence attachment for SZP stereomicroscope.
<b>B-500TiFL</b>	Trinocular EPI fluorescence microscope HBO illumination system.
<b>B-1000FL-LED</b>	Trinocular microscope, LED fluorescence.
<b>B-1000FL-HBO</b>	Trinocular microscope, HBO fluorescence.
<b>XDS-2FL</b>	Inverted trinocular EPI fluorescence microscope HBO illumination system.
<b>XDS-3FL</b>	Inverted trinocular EPI fluorescence microscope HBO illumination system, with FLUO objectives.
<b>XDS-3FL4</b>	Inverted trinocular EPI fluorescence microscope HBO illumination system, with quadruple filter holder.

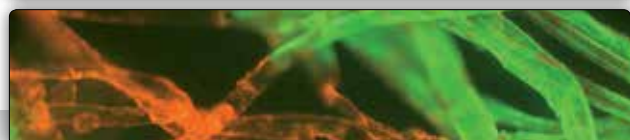
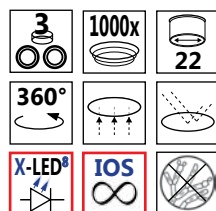
## B-383LD2



# B-1000FL-HBO Model



## B-1000FL-HBO



# 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 everyone, 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, without 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-383LD**.

Developed by the **OPTIKA** Research labs, the **B-383LD** marks a revolution in the field of fluorescence microscopy.

Strictly derived from the **B-383FL** model, of which it shares the body, the optics and the filter sets, the **B-383LD** employs high-power **LED** instead of the classical mercury vapour bulb.

The **LED** is 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-383LD1** and **B-383LD2**.

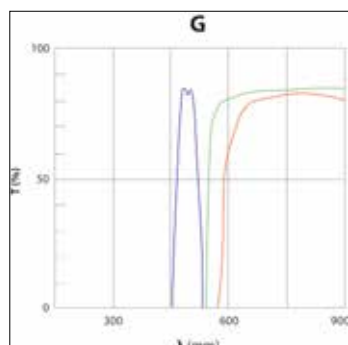
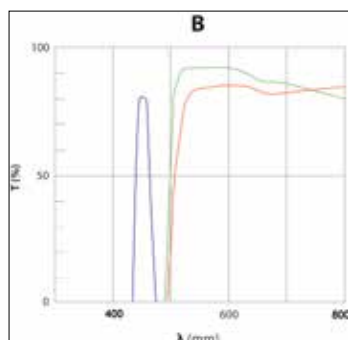
## B-383LD1 Model - Technical specifications

Part	Description
Head	Trinocular, 30° inclined, 360° rotating. Interpupillary adjustment 48-75 mm.
Eyepieces	WF10X/20mm
Nosepiece	5 position on reversed revolving nosepiece. Ball bearing rotation.
Objectives	IOS E-PLAN 4x/0.10, 10x/0.25, 20x/0.40, 40x/0.65, and PLAN 50x/0.75 (no cover slide).
Focusing system	Coaxial coarse and fine.
Stage	Double layer mechanical sliding stage, dimensions 216x150mm, moving range 78x54mm. Belt-drive in X direction.
Condenser	Abbe condenser, sliding-in, N.A. 1.25 with centering system.
Illumination	Transmitted light: X-LED <sup>3</sup> , with manual brightness control. Epi-fluorescence: high-power blue LED
Power supply	External power supply: Input 100-240Vac 50-60Hz / Output 6Vdc 1A

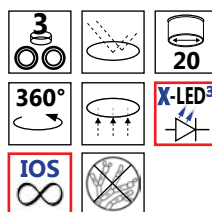
### Standard filterset

Name	Excitation filter (nm)	Dichroic mirror cut-off (nm)	Emission filter (nm)
B (Blue)	460 – 490	505	515LP

# B-383LD2 Model



## B-383LD2



# B-383LD2 Model - Technical specifications

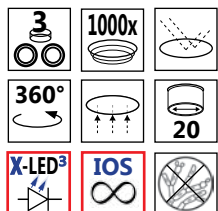
Part	Description
<b>Head</b>	Trinocular, 30° inclined, 360° rotating. Interpupillary adjustment 48-75 mm.
<b>Eyepieces</b>	WF10X/20mm
<b>Nosepiece</b>	5-position reversed revolving nosepiece. Ball bearing rotation.
<b>Objectives</b>	IOS E-PLAN 4x/0.10, 10x/0.25, 20x/0.40, 40x/0.65, and PLAN 50x/0.75 (no cover slide).
<b>Focusing system</b>	Coaxial coarse and fine.
<b>Stage</b>	Double layer mechanical sliding stage, dimensions 216x150mm, moving range 78x54mm. Belt-drive in X direction.
<b>Condenser</b>	Abbe condenser, sliding-in, N.A. 1.25 with centering system.
<b>Illumination</b>	Transmitted light: X-LED <sup>3</sup> , with manual brightness control. Epi-fluorescence: high-power white LED (for B and G filtersets)
<b>Power supply</b>	External power supply: Input 100-240Vac 50-60Hz / Output 6Vdc 1A

### Standard filterset

Name	Excitation filter (nm)	Dichroic mirror cut-off (nm)	Emission filter (nm)
<b>B (Blue)</b>	<b>460 – 490</b>	<b>505</b>	<b>515LP</b>
<b>G (Green)</b>	<b>510 – 550</b>	<b>570</b>	<b>590LP</b>

# B-383FL Model

## B-383FL



## B-383FL Model - Technical specifications

Part	Description
<b>Head</b>	Trinocular, 30° inclined, 360° rotating. Interpupillary adjustment 48-75 mm.
<b>Eyepieces</b>	WF10X/20mm
<b>Nosepiece</b>	5-position reversed revolving nosepiece. Ball bearing rotation.
<b>Objectives</b>	IOS E-PLAN 4x/0.10, 10x/0.25, 20x/0.40, 40x/0.65, 100x/1.25 (oil)
<b>Focusing system</b>	Coaxial coarse and fine.
<b>Stage</b>	Double layer mechanical sliding stage, dimensions 216x150mm, moving range 78x54mm. Belt-drive in X direction.
<b>Condenser</b>	Abbe condenser, sliding-in, N.A. 1.25 with centering system.
<b>Illumination</b>	Transmitted light: X-LED3, with manual brightness control. Epi-fluorescence: HBO 100W high pressure mercury bulb
<b>Power supply</b>	External power supply: Input 100-240Vac 50-60Hz / Output 6Vdc 1A Fluorescence Power Supply 100W. Timer and current display.

### Standard filterset

Name	Excitation filter (nm)	Dichroic mirror cut-off (nm)	Emission filter (nm)
<b>B (Blue)</b>	<b>450 - 480</b>	<b>500</b>	<b>515LP</b>
<b>G (Green)</b>	<b>510 - 550</b>	<b>570</b>	<b>590LP</b>

# SZP-FL Attachment

## SZP-FL



Part	Description
<b>Description</b>	Fluorescence attachment for SZP stereomicroscopes. Fluorescence observation for biology, industrial inspection, criminal justice, etc. Essential tool for security printing and mineral research.
<b>Filterset</b>	Standard: GFP-B (EX460-500, DM505, BA510-560) GFP-L (EX460-500, DM505, BA510)
<b>Illumination</b>	100W HBO high-pressure mercury vapor bulb. Average lamp lifetime: 400 hours. Input voltage: 110/240Vac, 50/60Hz, 1A ; Fuse: F8AL 250V. Maximum input power: 125W. Current and time counter LED displays.
<b>Photo&amp;Video Attachment</b>	Trinocular output port

# B-500TiFL Model - Technical specifications

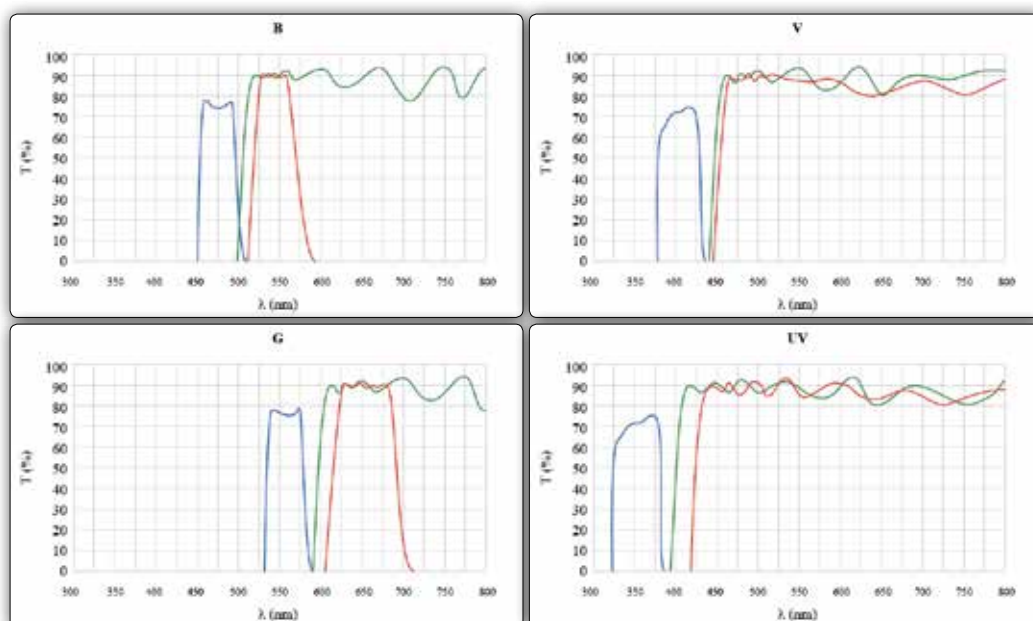
Part	Description
<b>Optical system</b>	Mechanical tube length: IOS - Infinity Optical System; parfocal distance 45 mm.
<b>Head</b>	Trinocular, 30° inclined, 360° rotating. Diopter adjustment; interpupillary distance adjustment 55-75 mm.
<b>Eyepieces</b>	Wide Field 10x/22 mm.
<b>Nosepiece</b>	5-position reversed revolving nosepiece. Ball bearing linear guides.
<b>Objectives</b>	IOS Planachromatic FLUO 4x/0.13, 10x/0.30, 20x/0.50, 40x/0.75
<b>Specimen stage</b>	Double layer with mechanical sliding stage, 175x145 mm; moving range 76x51 mm.
<b>Focusing system</b>	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.
<b>Condenser</b>	Centrable Abbe condenser (swing-out type) with double lens. N.A. 0.9 Fitted with iris diaphragm. Height adjustment by a rack and pinion mechanism.
<b>Transmitted illumination</b>	X-LED <sup>3</sup> illumination system.
<b>Incident illumination</b>	HBO 100W high pressure mercury bulb for epi-fluorescence.

## Standard filters (included)

Name	Excitation wavelength (nm)	Dichroic mirror cut-off (nm)	Barrier filter cut-off (nm)
<b>B (Blue)</b>	<b>450-490</b>	<b>495</b>	<b>500-550</b>
<b>G (Green)</b>	<b>540-580</b>	<b>585</b>	<b>607-683</b>

## Additional filters (as option)

Name	Excitation wavelength (nm)	Dichroic mirror cut-off (nm)	Barrier filter cut-off (nm)
<b>V (Violet)</b>	<b>390-420</b>	<b>440</b>	<b>450LP</b>
<b>UV</b>	<b>325-375</b>	<b>415</b>	<b>435LP</b>

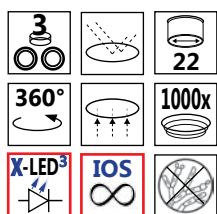


**MANY MORE FILTERSETS  
AVAILABLE ON REQUEST**

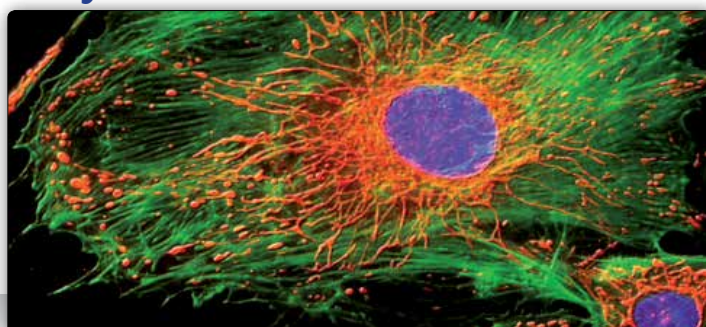
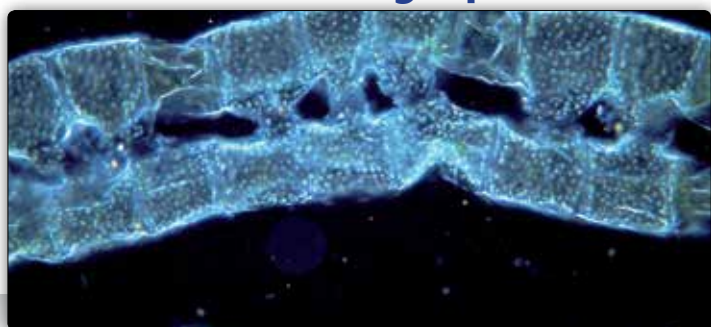


# FLUO Series - HBO Fluorescence

## B-500TiFL



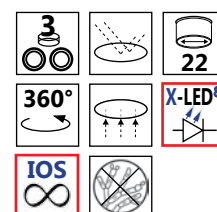
## HB100W high-pressure mercury bulb for fluorescence



# B-1000FL-LED Model



## B-1000FL-LED



### B-1000FL-LED

Type:

**LED FLUORESCENCE RESEARCH MICROSCOPE**

Description:

Laboratory microscope for routine and research applications.

Dye-cast frame, with high stability and ergonomy, for transmitted and incident light observation.



Version for LED epifluorescence analysis.

**Transmitted illumination:** X-LED<sup>®</sup> (8W power).

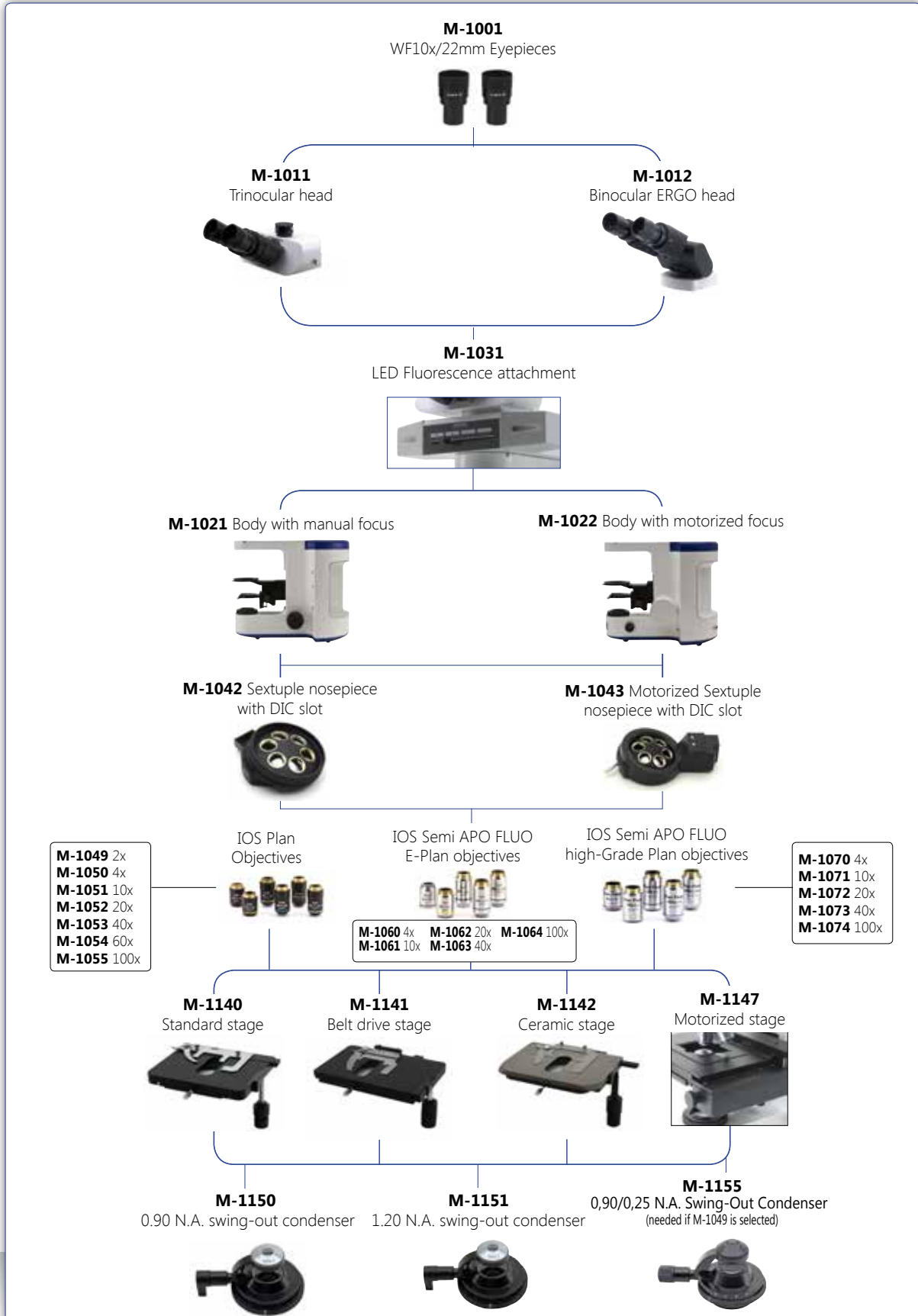
**Epi-illumination:** special attachment with built-in high-power colored LEDs.

### Standard filtersets (included)

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

# B-1000FL-LED Model - Configuration chart

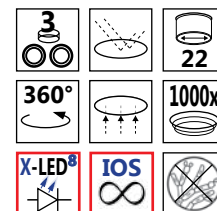
BUILD THE MICROSCOPE THAT SUITES YOUR NEEDS BY CHOOSING AMONG THE COMPONENTS OF CONFIGURATION CHART:



# B-1000FL-HBO Model



## B-1000FL-HBO



### B-1000FL-HBO

Type:

**FLUORESCENCE RESEARCH MICROSCOPE**

Description:

Laboratory microscope for routine and research applications.

Dye-cast frame, with high stability and ergonomy, for transmitted and incident light observation.

Version for epifluorescence analysis.

Transmitted illumination: X-LED<sup>3</sup> (8W power).

**Epi-illumination:** special attachment with 100W mercury lamp and 6-position filter wheel.

### Standard filtersets (included)

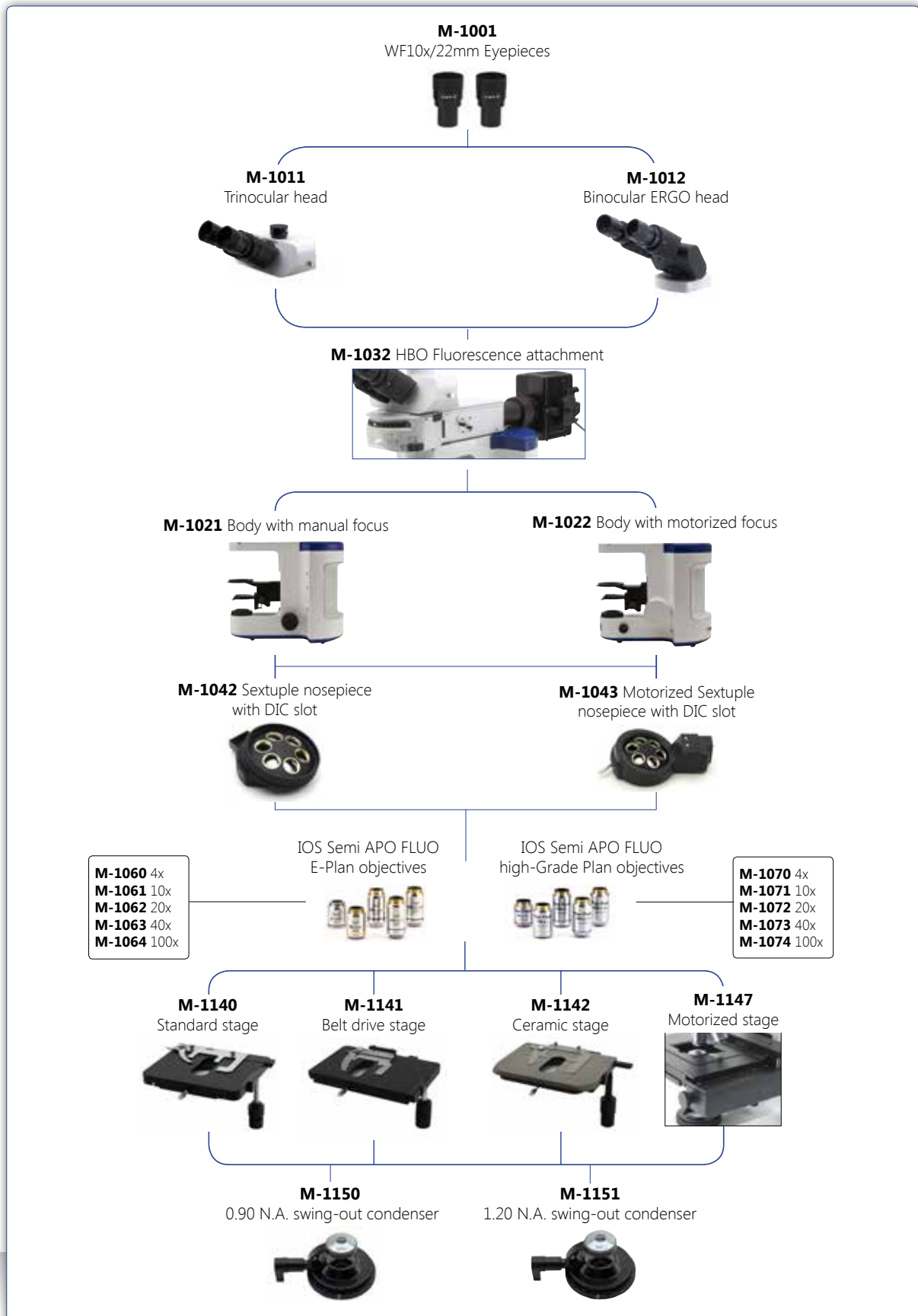
Name	Excitation wavelength (nm)	Dichroic mirror cut-off (nm)	Barrier filter wavelength (nm)
<b>B (Blue)</b>	<b>460-490</b>	<b>500</b>	<b>520LP</b>
<b>G (Green)</b>	<b>510-550</b>	<b>570</b>	<b>590LP</b>

### Additional filters (as option)

Name	Excitation wavelength (nm)	Dichroic mirror cut-off (nm)	Barrier filter wavelength (nm)
<b>V (Violet)</b>	<b>400-410</b>	<b>455</b>	<b>455LP</b>
<b>UV</b>	<b>330-385</b>	<b>400</b>	<b>420LP</b>

# B-1000FL-HBO Model - Configuration chart

BUILD THE MICROSCOPE THAT SUITES YOUR NEEDS BY CHOOSING AMONG THE COMPONENTS OF CONFIGURATION CHART:



# XDS-2FL Model

## The instrument

XDS-2FL is a routine inverted epifluorescence microscope. The basic structure is dedicated to the most demanding applications of routine fluorescence analysis. XDS-2FL offers, in the same unit, brightfield and phase contrast capabilities, thus extending its potentials to most multi-contrast applications.

## Optical system

The epifluorescence optical system is implemented via the standard excitation filter-dichroic mirror-barrier filter combination, applied to a 100W Hg lamp. It is supplied with EWF10x/22mm extra-widefield eyepieces, long working distance IOS objectives, and a double filterblock set (blue and green excitation).

The extensive range of optional accessories allows a quick interchange of contrast mechanisms and a multi-contrast observation without removal of the specimen from the stage.

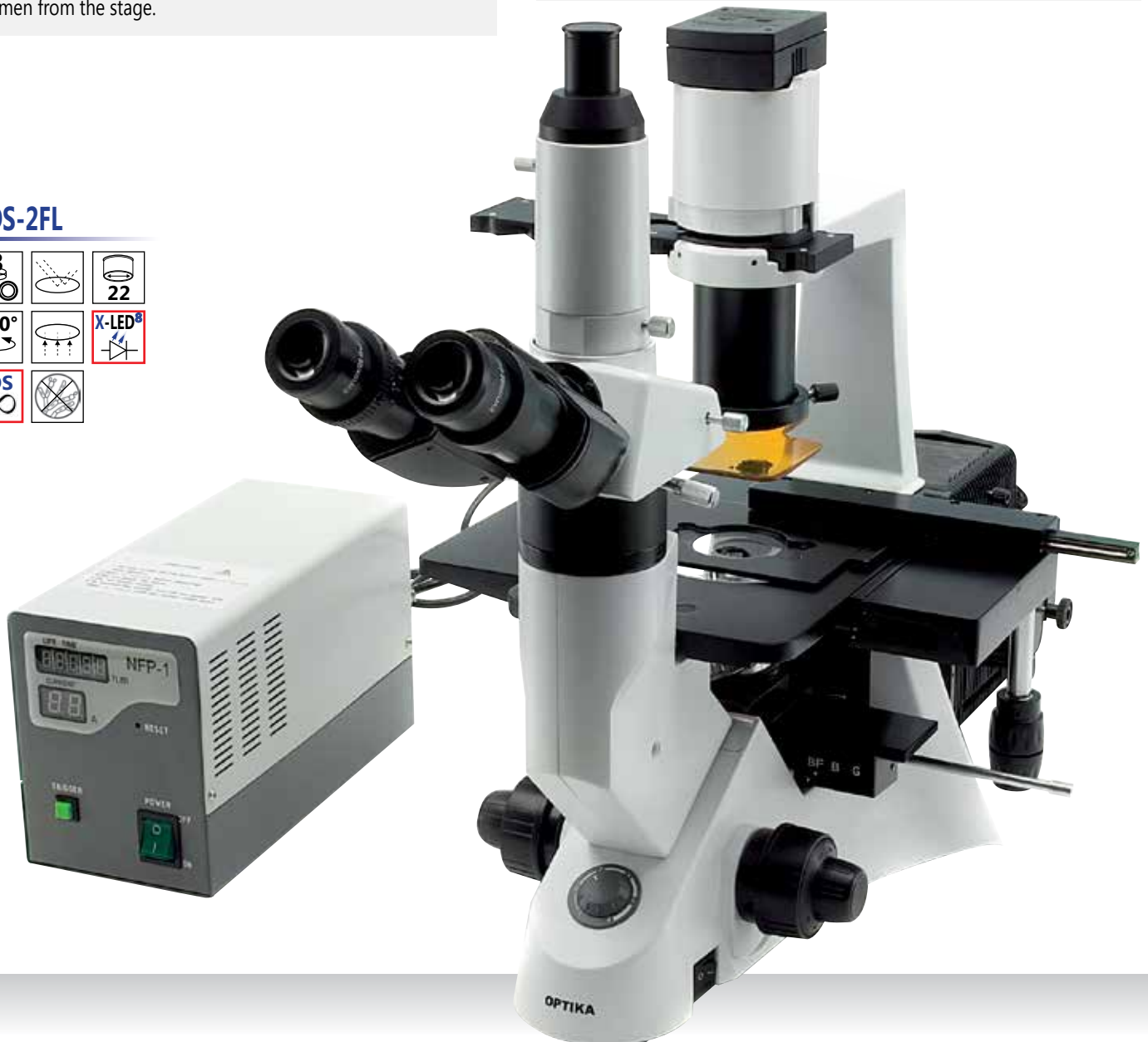
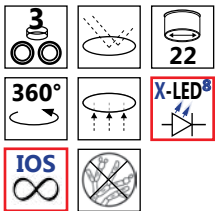
## User comfort

XDS-2 is comfortable for the operator. The 22 mm extra-wide field is pleasant to use and minimizes operator stress. The special eyepieces are designed for eyeglass wearers.

## Ergonomy

Every control is easy to reach, every component has been designed for a comfortable use. The focusing and specimen translation controls are designed to allow to rest the wrists on the table. The brightfield light intensity regulation is placed very close to the focusing knobs. The specimen stage is fitted with a special glass insert that allows to see the objectives, for immediate identification of the magnification setup. The head implements an extremely innovative design, that permits adjustment to compensate for operator height.

## XDS-2FL

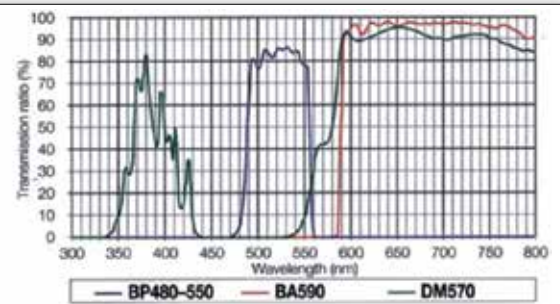
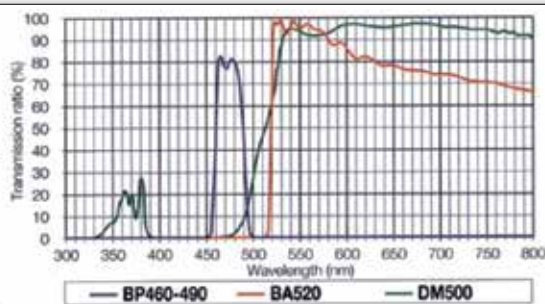


# XDS-2FL Model - Technical specifications

Part	Description
<b>Optical system</b>	Infinity corrected system, 45 mm parfocality distance. Field number 22 mm.
<b>Head</b>	Trinocular: 30° inclined, 360° rotating. Interpupillary distance: 48 - 75 mm. Adjustable dioptric compensation. Ergonomical head available as option.
<b>Eyepieces</b>	Extra-wide field 10x/22mm, High-point.
<b>Nosepiece</b>	5 positions, with bidirectional rotation on ball bearings and click stop.
<b>Objectives</b>	Long working distance (LWD) infinity corrected (IOS) planachromatic: 4x/0.10 (working distance 18 mm), 10x/0.25 with phase ring (working distance 10 mm), 20x/0.40 with phase ring (working distance 5.1 mm), 40x/0.60 (working distance 2.6 mm). Corrected for 1.2 mm coverglass.
<b>Specimen stage</b>	Size: 250 x 230 mm. Translator with lowered ergonomic coaxial controls. X-Y translation: 119 x 70 mm. Interchangeable metallic inserts for specimen slides, Petri dishes and flasks.
<b>Focusing system</b>	Macro and micrometric regulation, with coaxial knobs on both sides of the stand. Adjustable tension.
<b>Condenser</b>	Long working distance condenser, numerical aperture 0.30, working distance 72 mm. The condenser can be removed in order to increase the working distance to 150 mm.
<b>Illumination</b>	X-LED8 system precentered illuminator, with adjustable intensity, filter and phase ring holder and aperture diaphragm. Inverted epifluorescence: HBO 100W high pressure mercury bulb, knobs for lamp and back mirror alignment.
<b>Filtersets</b>	Blue and Green fluorescence filtersets. No other as option.

		Excitation	Dichroic Mirror	Barrier Filter
<b>Filter sets</b>	Blue excitation	<b>BP460-490</b>	<b>DM500</b>	<b>520LP</b>
	Green excitation	<b>BP480-550</b>	<b>DM570</b>	<b>590LP</b>

## STANDARD FILTERS



# XDS-3FL & XDS-3FL4 Model

## The instrument

XDS-3FL is an advanced inverted epifluorescence microscope. Thanks to its special FLUO objectives, designed with quartz and special glasses (low in auto-fluorescence), XDS-3FL is upgradable with every kind of fluorescence filterset. The instrument offers, in the same unit, bright-field and phase contrast capabilities, thus extending its potentials to most multi-contrast applications.

## Optical system

The epifluorescence optical system is implemented via the standard excitation filter-dichroic mirror-barrier filter combination, applied to a 100W Hg lamp. It is supplied with EWF10x/22mm extra-widefield eyepieces, long working distance IOS FLUO objectives, and a double filterblock set (blue and green excitation as standard configuration). The extensive range of optional accessories allows a quick interchange of contrast mechanisms, and multi-contrast observation without removal of the specimen from the stage.

## Ergonomy

Every control is easy to reach, every component has been designed for comfortable use. The focusing and specimen translation controls are designed to allow to rest the wrists on the table.

The brightfield light intensity regulation is placed very close to the focusing knobs.

The specimen stage is fitted with a special glass insert, that allows to see the objectives, for immediate identification of the magnification setup.

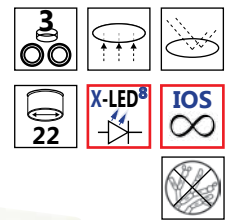
## User comfort

XDS-3FL is comfortable for the operator.

The 22 mm extra-wide field is pleasant to use and minimizes operator stress.

The special eyepieces are designed for eyeglass wearers.

## XDS-3FL/XDS-3FL4



**MANY MORE FILTERSETS  
AVAILABLE ON REQUEST**



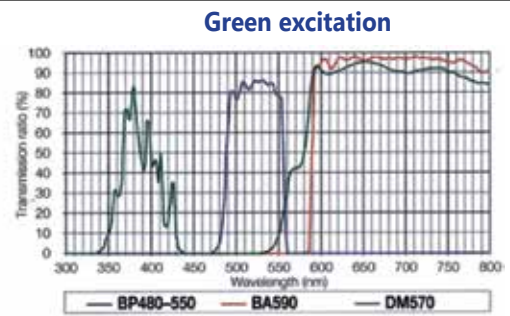
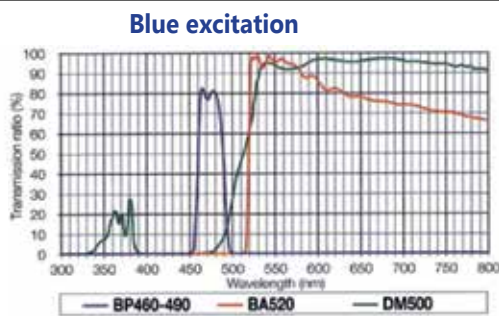
# XDS-3FL & XDS-3FL4 Model - Technical specification

Part	Description
<b>Optical system</b>	Infinity corrected system, 45 mm parfocality distance. Field number 22 mm.
<b>Head</b>	Trinocular: 45° inclined. Interpupillary distance: 48 - 75 mm. Adjustable dioptic compensation.
<b>Eyepieces</b>	Extra-wide field 10x/22mm, High-point.
<b>Nosepiece</b>	5 positions, with bidirectional rotation on ball bearings and click stop.
<b>Objectives</b>	Long working distance (LWD) infinity corrected (IOS) planachromatic: FLUO 10X/0.3 (working distance 10 mm), FLUO 20X/0.45 (working distance 5.1 mm), FLUO 40X/0.65 (working distance 2.6 mm). Corrected for 1.2 mm coverglass.
<b>Specimen stage</b>	Size: 250 x 230 mm. Translator with lowered ergonomic coaxial controls. X-Y translation: 120x80 mm. Interchangeable metallic inserts for specimen slides, Petri dishes and flasks.
<b>Focusing system</b>	Macro- and micrometric regulation, with coaxial knobs on both sides of the stand. Adjustable tension.
<b>Condenser</b>	Long working distance condenser, numerical aperture 0.30, working distance 72 mm. The condenser can be removed in order to increase the working distance to 150 mm. Green IF550 filter and Blue LBD filter are provided.
<b>Illumination</b>	Brightfield: X-LED <sup>8</sup> system, precentered illuminator, with adjustable intensity and aperture diaphragm. Epi-fluorescence: HBO 100W high pressure mercury bulb, knobs for lamp alignment.
<b>Filtersets</b>	Blue and Green fluorescence filtersets. Violet and Ultraviolet as optional accessories. <b>XDS-3FL4</b> - Same as <b>XDS-3FL</b> with 4 positions filter holder (Blue and Green filtersets, plus 2 empty positions).

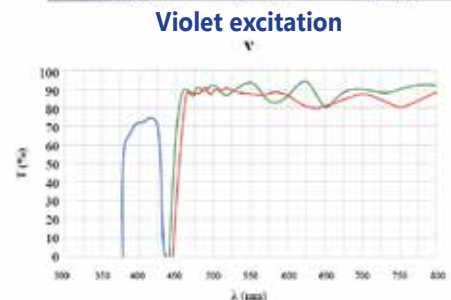
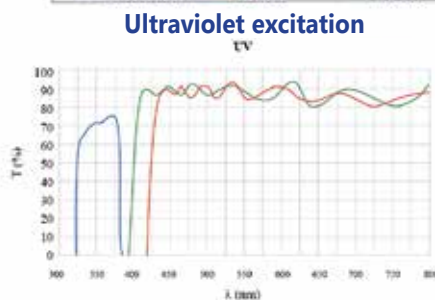
Filter sets	Excitation	Dichroic Mirror	Barrier Filter
<b>Blue excitation</b>	BP460-490	DM500	520LP
<b>Green excitation</b>	BP480-550	DM570	590LP
<b>Ultraviolet excitation</b>	BP325-375	DM400	420LP
<b>Violet excitation</b>	BP385-425	DM440	455LP

CHROMA TECHNOLOGY CORP.  
THE WORLD'S FINEST OPTICAL FILTERS

STANDARD  
FILTERS



OPTIONAL FILTERS



# FLUO Series - Accessories

## Accessories for B-383LD1 / B-383LD2 / B-383FL

M-160	Eyepiece WF10x/20mm.
M-161	Eyepiece WF15x.
M-162	Eyepiece WF20x.
M-163	Micrometer eyepiece WF10x/20mm.
M-005	Micrometric slide 26x76 mm, range 1 mm, div. 0,01 mm.
M-144	Objective 4x/0,10 IOS E-PLAN.
M-145	Objective 10x/0,25 IOS E-PLAN.
M-146	Objective 20x/0,40 IOS E-PLAN.
M-147	Objective 40x/0,65 IOS E-PLAN.
M-335	Objective 50x/0,75 IOS PLAN MET.
M-149	Objective 60x/0,80 IOS E-PLAN.
M-148	Objective 100x/1,25 IOS E-PLAN (Oil).
M-181	Complete Phase Contrast Set with IOS PLAN obj. 10x, 20x, 40x, 100x, with Darkfield position
M-174.1	Polarizing set, filters only (for B-380 series).
M-175	Rotating table for polarizing set.
M-185	Darkfield condenser for dry objectives.
M-173	Photo adapter for APS-C and Full Frame Reflex cameras.
M-114	CCD camera adapter 0,45x.
M-116	CCD camera adapter 0,50x.
M-069	Solar battery pack.
M-151	HBO100W high-pressure mercury bulb for fluoresc. (for B-383FL only).

## Accessories for B-500TiFL

M-680	Ergo binocular head 30°-60°.
M-780	Eyepiece EWF10x/22mm.
M-601	Eyepiece WF15x/16mm.
M-781	Eyepiece micrometer EWF10x/22mm.
M-005	26x76 mm micrometric slide. Range 1 mm, div. 0,01 mm.
M-760	Objective IOS PLAN Achromatic for phase contrast 10x/0,25.
M-761	Objective IOS PLAN Achromatic for phase contrast 20x/0,40.
M-762	Objective IOS PLAN Achromatic for phase contrast 40x/0,65.
M-763	Objective IOS PLAN Achromatic for phase contrast 100x/1,25 (Oil).
M-681	Objective IOS FLUOR PLAN Achromatic 4x/0,13.
M-682	Objective IOS FLUOR PLAN Achromatic 10x/0,30.
M-683	Objective IOS FLUOR PLAN Achromatic 20x/0,50.
M-684	Objective IOS FLUOR PLAN Achromatic 40x/0,75.
M-685	Objective IOS FLUOR PLAN Achromatic 100x/1,30.
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-617	Complete phase contrast set with plan IOS obj. 10x, 20x, 40x, 100x.
M-666	Heating stage, with digital temperature controller (only for biological microscopes).
M-619	Photo adapter for REFLEX camera with FULL FRAME sensor.
M-699	Universal adapter for OPTIKAM & DIGI cameras (only models with eyepiece adapter, 23mm).
M-620	CCD camera adapter (for 1/3" sensors).
M-620.1	CCD camera adapter (for 1/2" sensors).
M-151	HBO100W high-pressure mercury bulb for fluorescence.
M-670	Empty fluorescence filterblock for B-500TiFL.
M-671	Fluorescence filterset (filterblock included) V for B-500TiFL.
M-672	Fluorescence filterset (filterblock included) UV-DAPI for B-500TiFL.
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).
M-173	Photo adapter for APS-C and Full Frame Reflex cameras.
M-114	CCD camera adapter 0,45x.
M-116	CCD camera adapter 0,50x.

## Accessories for XDS-2FL

M-755	Ergonomical binocular head.
M-755.1	Trinocular attachment for Ergonomical binocular head (M-755).
M-017	Eyepiece EWF10x/22mm.
M-021	Eyepiece micrometer EWF10x/22mm.
M-005	26x76 mm micrometric slide. Range 1 mm, div. 0,01 mm.
M-713	Photo adapter for REFLEX camera with APS-C sensor.
M-770	Objective IOS LWD PLAN Achromatic 4x/0,10 (w.d. 18mm)
M-771	Objective IOS LWD PLAN Achromatic for phase contrast 10x/0,25 (w.d. 10mm).

M-772	Objective IOS LWD PLAN Achromatic for phase contrast 20x/0,40 (w.d. 5,1mm).
M-773	Objective IOS LWD PLAN Achromatic 40x/0,60 (w.d. 2,6mm).
M-774	Objective IOS LWD PLAN Achromatic for phase contrast 40x/0,60 (to use with M-776).
M-776	Phase ring 40x (to use with M-774).
M-151	HBO100W high-pressure mercury bulb for fluorescence.
M-677	Fluorescence filterset (filterblock included) V (for XDS-3FL series).
M-778	CCD camera adapter.
M-036	Dust cover type 7.
M-173	Photo adapter for APS-C and Full Frame Reflex cameras.
M-114	CCD camera adapter 0,45x.
M-116	CCD camera adapter 0,50x.

## Accessories for XDS-3FL/XDS-3FL4

M-780	Eyepiece EWF10x/22mm.
M-781	Eyepiece micrometer EWF10x/22mm.
M-005	26x76 mm micrometric slide. Range 1 mm, div. 0,01 mm.
M-782	Objective IOS LWD PLAN Achromatic 4x/0,10 (w.d. 22mm).
M-782.1	Objective IOS LWD PLAN Achromatic for phase contrast 4x/0,13 (w.d. 16,9mm)
M-783N	Objective IOS LWD PLAN Achromatic for phase contrast 10x/0,25 (w.d. 7,94mm).
M-784N	Objective IOS LWD PLAN Achromatic for phase contrast 20x/0,40 (w.d. 7,66mm).
M-785	Objective IOS LWD PLAN Achromatic for phase contrast 40x/0,60 (w.d.3,71mm).
M-783.1N	Mounted phase ring for 4x/10x (for XDS-3FL series).
M-785.1N	Mounted phase ring for 20x/40x (for XDS-3FL series).
M-786	Objective IOS LWD PLAN Achromatic 60x/0,70 (w.d. 2,50mm).
M-801	Objective IOS LWD FLUOR PLAN Achromatic 10x/0,25 (w.d. 10mm).
M-802	Objective IOS LWD FLUOR PLAN Achromatic 20x/0,40 (w.d. 5,1mm).
M-803	Objective IOS LWD FLUOR PLAN Achromatic 40x/0,60 (w.d. 2,6mm).
M-804	Objective IOS LWD FLUOR PLAN Achromatic 60x/0,7.
M-676	Empty fluorescence filterblock (for XDS-3FL series).
M-677	Fluorescence filterset (filterblock included) V (for XDS-3FL series).
M-678	Fluorescence filterset (filterblock included) UV-DAPI (for XDS-3FL series).
M-151	HBO100W high-pressure mercury bulb for fluorescence.
M-787	Cut-off filter (infrared).
M-788	Photo adapter for REFLEX camera with FULL FRAME sensor.
M-789	CCD camera adapter (for 1/3" sensors).
M-789.1	CCD camera adapter (for 1/2" sensors).
M-699	Universal adapter for OPTIKAM & DIGI cameras (only models with eyepiece adapter, 23mm).
M-036	Dust cover type 7.
M-679	Empty filter block 4 positions (only for XDS-3FL).
M-677.1	Fluorescence filterset V for XDS-3FL4.
M-678.1	Fluorescence filterset UV-DAPI for XDS-3FL4.
M-173	Photo adapter for APS-C and Full Frame Reflex cameras.
M-114	CCD camera adapter 0,45x.
M-116	CCD camera adapter 0,50x.

## Accessories for B-1000FL-LED / B-1000FL-HBO

M-005	Micrometric slide, 26x76mm, range 1mm, div. 0,01mm
M-613	Polarizing set (filters only).
M-615	Lambda filter for polarizing set.
M-617.1N	Phase contrast set with IOS PLAN objective 40x.
M-690	Eyecup (pair).
M-619	Photo tube adapter for full frame SLR camera.
M-173	Photo adapter for APS-C and Full Frame Reflex cameras.
M-620	CCD camera adapter for 1/3" sensor.
M-620.1	CCD camera adapter for 1/2" sensor.
M-151	HBO 100W high-pressure mercurybulb for fluorescence.
M-1164	Empty fluorescence filterblock for B-1000FL-HBO.
M-1165	Fluorescence filterset V (filterblock included) for B-1000FL-HBO.
M-1166	Fluorescence filterset UV-DAPI (filterblock included) for B-1000FL-HBO.
M-699	Universal adapter for OPTIKAM & DIGI cameras (only models with eyepiece adapter, 23mm).
M-114	CCD camera adapter 0,45x.
M-116	CCD camera adapter 0,50x.
M-113.1	Ring adapter, 30mm (for monocular and binocular microscopes).
M-ND25	Neutral density filter ND25 (for B-1000FL-HBO).
15008	OPTIKA immersion oil, 10ml.



### How to connect the cameras to our microscopes.

Please refer to the Adapter reference list on Digital section.

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