

FLUO SERIES - HBO Fluorescence

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, 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 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 it is optimized for multi-contrast observation without removal of the specimen from the stage.

Ergonomy

Every control is easy to reach, every component has been designed with ease of use in mind. The focussing 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 focussing 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

www.BioTech.cz

FLUO SERIES - HBO Fluorescence

XDS-3FL - Technical specifications

Part	Description
Optical system	Infinity corrected system, 45 mm parfocality distance. Field of view 22 mm.
Head	Trinocular: 30° inclined, 360° rotating. Interpupillary distance: 48 - 75 mm. Adjustable dioptric compensation.
Eyepieces	Extra-wide field EWF10x/22mm, High point.
Nosepiece	5 positions, with bidirectional rotation on ball bearings and click stop.
Objectives	Long working distance (LWD) infinity corrected (IOS) planachromatic: FLUO 10X/0.25 (working distance 10 mm), FLUO 20X/0.40 (working distance 5.1 mm), FLUO 40X/0.60 (working distance 2.6 mm). Corrected for 1.2 mm coverglass.
Specimen stage	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 racks.
Focusing system	Macro- and micrometric regulation, with coaxial knobs on both sides of the stand. Adjustable friction.
Condenser	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.
Illumination	6V / 30W halogen precentered illuminator, with adjustable intensity, filter and phase ring holder and aperture diaphragm. Inverted epifluorescence: HBO 100W high pressure mercury bulb, knobs for lamp alignment.
Filtersets	Blue and Green fluorescence filtersets. Violet and Ultraviolet as optional accessories.

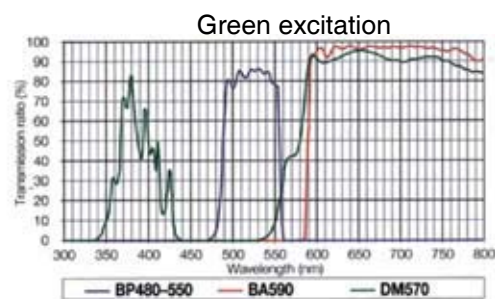
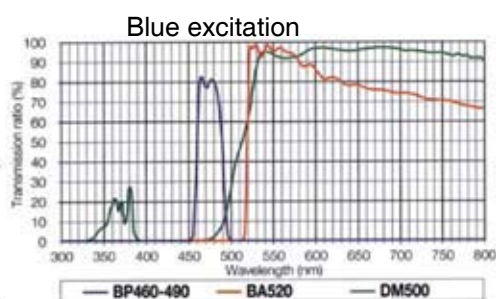
Filter sets

Filter sets	Excitation	Dichroic Mirror	Barrier Filter
Blue excitation	BP460-490	DM500	BA520
Green excitation	BP480-550	DM570	BA590
Ultraviolet excitation	BP330-385	DM400	BA420
Violet excitation	BP400-410	DM455	BA455

**MANY MORE FILTERSETS
AVAILABLE ON REQUEST**

CHROMA TECHNOLOGY CORP
THE WORLD'S FINEST OPTICAL FILTERS

STANDARD
FILTERS



OPTIONAL
FILTERS

