



INNO-X FLUORESCENCE MICROSCOPE

HIGHLIGHTS

- Compact motorized Upright Microscope with LED Fluorescence Illumination system.
- Trinocular model
- Ergonomic tilting head
- Standard super wide field SWF 10x/25mm, Ø 30 mm tubes
- Sextuple DIC Nosepiece.
- Enhanced infinity corrected EIS optical system
- 60 mm parafoval Plan EIS objectives
- 60 mm parafoval Plan Semi-Apochromatic EIS objectives
- M25 mm objective thread mounting
- 100 W HBO mercury vapor illumination
- 3 W NeoLED™ illumination
- 100 W halogen illumination
- Automatic switching of light path.
- X-Y mechanical stage with slide handler.

SPECIFICATIONS

EYEPIECE

- Standard super wide field SWF 10x/25 mm, Ø 30 mm tubes
- Extended wide Field EWF 10x/22 mm, Ø 30 mm tubes (on request)

STANDARD HEAD

Siedentopf trinocular head with 30° inclined tubes. Interpupillary distance adjustable between 47 and 78 mm. Three position beamsplitter (0:100/80:20 / 100:0). Diopter ± 5 adjustments on both eyepieces

ERGONOMIC TILTING HEAD

Optional ergonomic 0 to 35° tilting trinocular head supplied with SWF 10x/25 mm eyepieces, interpupillary distance 47-78 mm and photo tube with standard Ø 23.2 mm tube

NOSEPIECE

Revolving sextuple reversed nosepiece on ball-bearings

ENHANCED INFINITY SYSTEM (EIS)

The enhanced infinity system (EIS) of the Inno-X Fluorescence Microscope consists of Super wide field SFWF 10x25 mm eyepieces, high numerical aperture 60 mm parafoval objectives and a 200 mm focal length tube lens. The 200 mm focal length tube lens reduces the angle of the light rays passing through the optics and as a direct result improving significantly the chromatic aberration corrections and contrast of the images produced. The objectives have a larger diameter enabling a much higher numerical aperture, thus improving the overall resolving power of the optical system

For all these reasons the Inno-X Fluorescence Microscope offers superior optical performance for the most demanding applications

OBJECTIVES

Plan PLi	2x/0.06 ⁽¹⁾	4x/0.10	10x/0.25	20x/0.40	S40x/0.65	S50x/0.95 oil ⁽¹⁾	S60x/0.80 ⁽¹⁾	S100x/1.25 oil	S100x/1.25 oil iris ⁽¹⁾
Plan Semi-Apo Fluarex		4x/0.13	10x/0.30	20x/0.50	S40x/0.75			S100x/1.30 oil	





All objectives are 60 mm parafoval and have a M25 mm mounting thread. All optics are anti-fungus treated and anti-reflection coated for maximum light throughput. All S40x, S50x, S60x and S100x objectives are spring loaded Optional

AUTOMATED OBJECTIVE TURRET

Microscope have an automated objective turret along with motorized sextuple Fluorescence filter turret and motorized universal condenser with Digital camera.

It is capable to function in color as well as monochrome mode to acquire Bright HNE stained Bright Field Color and Sensitive Fluorescence images along with image analysis system.

PLAN ACHROMATIC EIS OBJECTIVES

(clinical routine applications)

The Inno-X Fluorescence Microscope is standard supplied with Plan Achromatic 4x/0.10, 10x/0.25, 20x/0.40, S40x/0.65 and S100x/1.25 (oil immersion) infinity corrected EIS objectives

Available as an option:

2x/0.06, S50x/0.95 (oil immersion) and S60x/0.80

PLAN SEMI-APOCHROMATIC FLUAREX OBJECTIVES

(anatomy- and histopathology applications)

The Inno-X Fluorescence Microscope can also be supplied with Plan Semi-Apochromatic 4x/0.13, 10x/0.30, 20x/0.50, S40x/0.75 and S100x/1.30 (oil immersion) infinity corrected EIS objectives

STAGE

190 x 152 mm stage with 78 x 32 mm integrated right-handed mechanical stage. Designed for 2 slides. Standard supplied with scratch-resistant Gorilla glass. Sapphire scratch-resistant glass is available on request. Left-handed mechanical stage is available on request, X-Y mechanical stage with slide handler.

FOCUSING

Coaxial coarse and fine adjustment, 100 graduations, 1 µm precision, 100 µm per rotation, total travel range is approximately 35 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control. The focusing knobs can be switched from left to right according to the user's preference, Motorized z focusing with minimum fine reading of 25 nm or better.

Optical zoom from 0.6x - 2x (continuous), zoom ratio 2.5:1.

Trinocular Eyepiece Tube with Tri-way light distribution i.e. 100/0, 20/80, 0/100 or better.

10x paired wide field eyepieces with F.O.V. 22 mm or higher & diopter adjustment facility.

CONDENSER FOR BRIGHTFIELD

In height adjustable N.A. 0.90/1.25 Abbe swing-out condenser with numerical aperture identification marks

Universal condenser for BF, Phase Contrast, Dark field and DIC application

ICARE SENSOR

The unique iCare Sensor is developed to avoid unnecessary loss of energy. The illumination of the microscope automatically switches off shortly after microscopists step away from their position

ILLUMINATION FOR FLUORESCENCE

The attachment for fluorescence of the Inno-X Fluorescence Microscope is equipped with a rotating block which can contain up to 6 filter cubes and supplied with 100 W HBO mercury vapor light source for broad powerful light spectrum

Supplied with standard fluorescence filters sets for Blue excitation, UV shield and external power supply

Band pass fluorescent filters for DAPI/Hoechst, FITC/GFP, TRITC/Rhodamine, CY3 and CY5 applications.

Filter turret fluorescent attachment along with noise terminator mechanism for observing weakly fluorescing specimens especially in dynamic live cell imaging experiment

LED fluorescence illumination with minimum lamp-life of 20,000hrs and equipped with 385nm, 475nm, 550nm, 621nm LEDs, remote controllable & software supported/assisted controls for better result.

DIASCOPIC ILLUMINATIONS

Two Kohler illuminations are available for the Inno-X Fluorescence Microscope microscope:

- Diascopic intensity adjustable 3 W NeoLED™ Kohler illumination with internal 100-240 V power supply
- Diascopic intensity adjustable 100 W halogen Kohler illumination with internal 100-240 V power supply

The diascopic halogen illumination comes with 2 push-in/push-out neutral density filters for smooth attenuation of the light intensity for all kind of samples. The diascopic NeoLED™ illumination comes with 1 neutral density filter

NEOLED™

The innovative NeoLED™ design is a combination of a custom LED and a specially designed thin lens with a short focal length in order to obtain three main benefits:

- More oblique light from the LED light source can be captured, which increases the light output significantly
- Less energy is required to achieve this level of light intensity
- The larger aperture of NeoLED™ allows the optical system to produce images at higher resolutions, very close to the theoretical diffraction limit of the optics

CARRYING GRIP

The carrying grip at the back of the microscope ensures safe transportation of

the microscope and the integrated tool & holder makes sure the right tool is always available

PACKAGE CONTENT

Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil





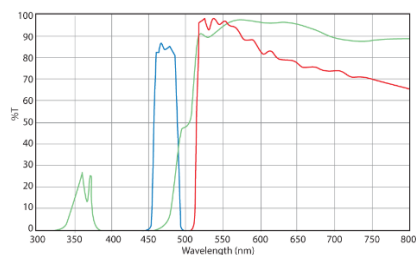
Plan Fluor Objectives

Compatible universal plan fluor objectives for Bf/Fluorescence/DIC application for Bright field, Phase contrast, DIC and fluorescence microscopy application.

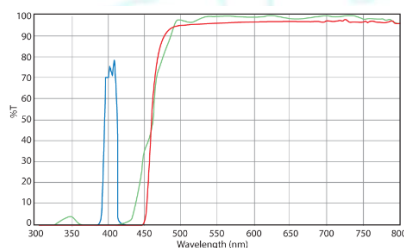
Plan Fluor/Semi Apochromat 4X	0.13	30.00 MM
Plan Fluor/Semi Apochromat 10x Phase	0.30	16.00 MM
Plan Fluor/Semi Apochromat 20x Phase	0.50	2.10 MM
Plan Apochromat λ 40x	0.95	0.21 MM (Spring-loaded)
Plan Apochromat VC 100x oil	1.40	0.13 MM (Spring-loaded)

STANDARD GENERAL-PURPOSE FLUORESCENCE FILTER SETS

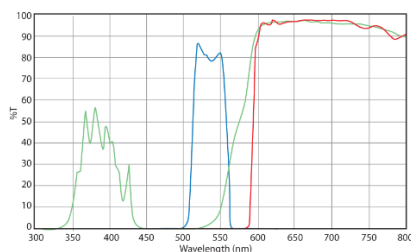
FILTER SET FOR BLUE EXCITATION (INV-9745)



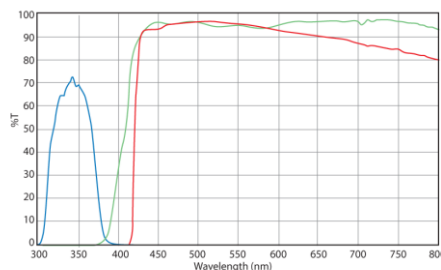
FILTER SET FOR VIOLET EXCITATION (INV-9747)



FILTER SET FOR GREEN EXCITATION (INV-9746)



FILTER SET FOR ULTRA-VIOLET EXCITATION (INV-9748)



INNO-X FLUORESCENCE WITH TRINOCULAR (ERGONOMIC TILTING) HEAD

MODELS	Standard trinocular	Ergonomic tilting head	SWF 10x/25 mm eyepieces	Plan 4/10/20/S40/S100x oil EIS objectives	Plan Semi-Apo Fluarex 4/10/20/S40/ S100x oil EIS objectives	3 W NeoLED™ Köhler illumination	100 W Halogen Köhler illumination
INV3153-P	•		•	•		•	
INV3158-P		•	•	•		•	
INV3153-AP	•		•		•	•	
INV.3158-AP		•	•		•	•	
INV.3153-P/H	•		•	•			•
INV.3158-P/H		•	•	•			•
INV.3153-PLP/H	•		•		•		•
INV3153-PLP/H		•	•		•		•





ACCESSORIES AND SPARE PARTS

EYEPIECES

- **INV-6010** Super wide field SWF 10x/25 mm eyepiece for 0 30 mm tube
- **INV-6010-CM** Super wide field SWF 10x/25 mm eyepiece with micrometer and cross hairs for Φ 30 mm tube
- **INV-6210** Super wide field SWF 10x/22 mm eyepiece for 0 30 mm tube
- **INV-6210-CM** Super wide field SWF 10x/22 mm eyepiece with micrometer and cross hairs for 0 30 mm tube
- **INV-6012** Wide field WF 12.5x/17.5 mm eyepiece for 0 30 mm tube
- **INV-6015** Wide field WF 15x/16 mm eyepiece for 0 30 mm tube
- **INV-6020** Wide field WF 20x/12 mm eyepiece for 0 30 mm tube
- **EDX-6099-L** Eyecup for eyepieces

OBJECTIVES

- **INV-7202** 60 mm Plan PLi 2x/0.06 objective. WD 7.5 mm
- **INV-7204** 60 mm Plan PLi 4x/0.10 objective. WD 30 mm
- **INV-7210** 60 mm Plan PLi 10x/0.25 objective. WD 10.2 mm
- **INV-7220** 60 mm Plan PLi 20x/0.40 objective. WD 12 mm
- **INV-7240** 60 mm Plan PLi S40x/0.65 objective. WD 0.7 mm
- **INV-7250** 60 mm Plan PLi S50x/0.95 oil objective. WD 0.19 mm
- **INV-7260** 60 mm Plan PLi S60x/0.80 objectives. WD 0.3 mm
- **INV-7200** 60 mm Plan PLi S100x/1.25 oil immersion objective. WD 0.2mm
- **INV-7200-I** 60 mm Plan PLi S100x/1.25 oil immersion objective with built-in iris diaphragm. WD 0.2 mm
- **INV-7304** 60 mm Plan Semi-Apochromatic PLi-Apo Fluarex 4x/0.13 objective. WD 16.5 mm
- **INV-7310** 60 mm Plan Semi-Apochromatic PLi-Apo Fluarex 10x/0.30 objective. WD 8.1 mm
- **INV-7320** 60 mm Plan Semi-Apochromatic PLi-Apo Fluarex 20x/0.50 objective. WD 2.1 mm
- **INV-7340** 60 mm Plan Semi-Apochromatic PLi-Apo Fluarex S40x/0.75 objective. WD 0.7 mm
- **INV-7300** 60 mm Plan Semi-Apochromatic PLi-Apo Fluarex S100x/1.30 oil immersion objective. WD 0.15 mm

CONDENSERS

- **INV-9105** **Abbe condensor with 0.9/1.25 swing-out front lens**
- **INV-9110** **Dry darkfield condenser**
- **INV-9112** **Oil immersion darkfield condenser**

POLARIZATION ATTACHMENTS

- **INV-9660** Simple polarization kit
- **INV-9662** Special polarization kit for gout
- **INV-9704** Yellow filter for lamphouse, diameter 45 mm

CAMERA ACCESSORIES

- **INV-9810** C-mount with 1 magnification for C-mount camera
- **INV-9835** C-mount with high resolution relay 0.35x objective for 1/3 inch C-mount camera
- **INV-9850** C-mount with high resolution relay 0.50x objective for 1/2 inch C-mount camera
- **INV-9863** C-mount with high resolution relay 0.63x objective for 2/3 inch C-mount camera
- **AE.5130** Universal SLR adapter with built-in 2x lens for standard 23.2 mm tube. Needs T2 adapter
- **AE.5025** T2 ring for Nikon D SLR digital camera
- **AE.5040** T2 ring for Canon EOS SLR digital camera

MISCELLANEOUS

- **INV-9501-R** Stage with Gorilla glass. Right handed
- **INV-9501 -L** Stage with Gorilla glass. Left handed
- **INV-9504-R** Stage with Sapphire glass. Right handed
- **INV-9504-L** Stage with Sapphire glass. Left handed
- **INV-9501-LG** Option for left handed stage with Gorilla glass⁽¹⁾
- **INV-9504-RS** Option for right handed stage with Sapphire glass⁽¹⁾
- **INV-9504-LS** Option for left handed stage with Sapphire glass⁽¹⁾
- **INV-9960** 100 W 24 V halogen bulb (revision 1 models)
- **INV-9961** 100 W 12 V halogen bulb (revision 2 models)
- **INV-9993** 3 Watt LED replacement
- **AE.5214** 500 mA 250 V fuses for LED models, 10pcs
- **AE.5216** 5 A 250 V fuses for Halogen models, 10pcs

DISPOSABLES

- **INB.5155** Microscope slides 76 x 26 mm, ground edges, 50 pieces per pack
- **INB.5165** Cover glasses 18 x 18 mm, 0.13-0.17 mm, 100 pieces
- **INB.5168** Cover glasses 22 x 22 mm, 0.13-0.17 mm, 100 pieces
- **INB.5245** Lens cleaning paper, 100 sheets per pack
- **INB.5255** Immersion oil, 25 ml. Refraction index $n = 1.515$
- **INB.5274** Iso propyl alcohol 99%, 200 ml
- **INB.5275** Cleaning kit: lens fluid, lint free lens tissue/paper, brush, air blower, cotton swabs

