

Delphi-X Inverso

fluorescence

HIGHLIGHTS

- · Life science applications
- · Observation of fluorescence in tissues and cells
- · Brightfield, phase contrast fluorescence observations
- DIC (differential interference contrast)
- Long working distance IOS plan semi-apochromatic Fluarex achromatic objectives
- · Revolving sextuple nosepiece
- 5 W LED or 100 W halogen transmitted illumination
- · 100 W HBO mercury vapor fluorescence illumination
- · Backwards tilting condenser arm
- · Easy placement of large objects
- · 10 Years warranty



EYEPIECES

Pair of DIN HWF plan 10x/25 mm or 10x/22 mm eyepieces with diopter adjustment

HEAD

Trinocular 45° inclined tubes. Interpupillary distance of 47 to 78 mm. Trinocular head with 100-0, 80/20 and 0/100 positions

NOSEPIECE

Revolving sextuple nosepiece on ball-bearings. The nosepiece can be equipped with DIC prisms for the 10x/20x and 40x objectives

OBJECTIVES

- High numerical infinity semi-apochromatic long working distance plan phase Fluarex PLPHFi 10x/0.30, 20x/0.45, S40x/0.60 IOS objectives enable the sub-cellular structures
- An optional 60x/0.80 IOS objective is also available
- The 20x, S40x and optional S60 objectives are equipped with collar adjustment ring for glass thicknesses from 0 to 1.2 mm





PHASE CONTRAST FLUORESCENCE EDI-1053-PLPHFi

565 (h) x 276 (w) x 800 mm (d) | 36.0 kg

Fluarex™ objectives are made of low-absorption glass. Fluarex™ is a trademark of Euromex microscopen bv. All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

STAGE

Stage 340 x 230 mm, equipped with a coaxial mechanical 130 x 85 mm X-Y stage. Supplied with:

- Metal insert for O 38 mm cell culture dish
- Metal insert for O 54 mm cell culture dish or 76 x 26 mm slides
- Metal insert for Multiwell plates (127.76 x 85.48 mm)
- Metal insert for Teraski plates (83.3 x 58.0 mm)
- · Optional universal cell culture holder

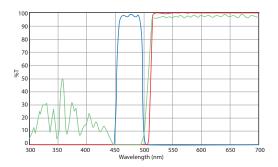
CONDENSER

Rotating N.A. 0.55 condenser with iris diaphragm. Working distance 26 mm. Supplied with phase contrast annuli for 10x/20x, 40x and 60x objectives and the DIC prisms for the 10x/20x/40x and 60x objectives. Three filter holders allow the insertion of Ø 38 mm filters in the optical path. The arm with condenser can be tilted backwards for convenient access to the stage. This allows easy placement of large objects like flasks and Petri dishes

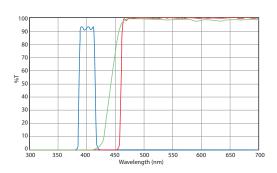


FLUORESCENCE ATTACHMENT

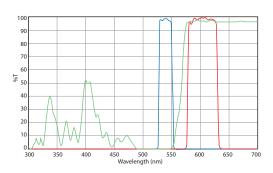
The Delphi-X Inverso for fluorescence microscopy is supplied with a 6-position fluorescence filter set wheel (see picture next page) and comes with two fluorescence filter sets for blue and green excitation (EDI-9745 and EDI-9746). Other filter sets are optional



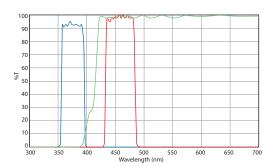




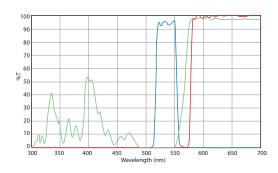
● EDI-9747 Violet excitation EX 400-410 DM 455 EM 460 Long pass



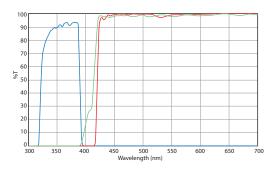
● EDI-9750.TRITC Green excitation EX 528-553 DM 565 EM 578-633 band pass



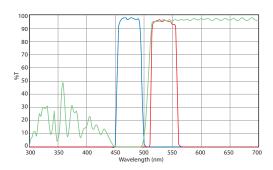
EDI-9750.DAPI UV excitation EX 360-390 DM 415 EM 435-485 band pass



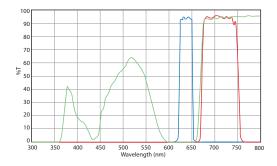
• EDI-9746 Green excitation EX 510-550 DM 570 EM 575 long pass



EDI-9748 Ultra violet excitation EX 330-385 DM 410 EM 420 Long pass



● EDI-9750.FITC Blue excitation EX 460-495 DM 505 EM 510-550 band pass



EDI-9750.R Red excitation EX 620-650 DM 660 EM 670-750 band pass



LENS CHANGER

A lens changer with a 1.5x lens allow intermediary magnifications of 1.5 times the standard objective magnifications. Switching from 20x to 30x or 40 to 60 and from 60x to 90x magnification can be done without the need to re-focus on the sample

FOCUSING ADJUSTMENT

Coaxial 10 mm coarse and fine adjustments, 1 μm precision and with friction adjustment

• 6-Position fluorescence filter set wheel and 1.5 lens changer





Fluorescence illumination with a 100 W mercury vapor lamp with external 100-240 V power supply. Transmitted 5 W LED or 100 W halogen illumination and internal power supply. Fuse holder 3.15 A / 250 V

PACKAGE CONTENT

Supplied with metal insert for Ø 38 mm cell culture dish and a metal insert for Ø 54 mm cell culture dish with 76 x 26 mm slides, metal insert for Multiwell plates, metal insert for Teraski plates, blue and green interference Ø 45 mm filters, power cord, dust cover, green filter and alignment telescope and user manual



MODELS	10x/20x/40x PLPHFi objectives	100 W Halogen illumination	5 W LED illumination	100 W HBO fluorescence illumination
EDI-3053-PLPHFi	•		•	•
EDI-3053-PLPHFi/	•	•		•
HAL				

ACCESSORIES AND SPARE PARTS

EYEPIECES

EDI-6099-L

EDI-6010	Super wide field SWF 10x/25 mm eyepiece	
EDI-6010-C	Super wide field SWF 10x/25 mm eyepiece with crosshairs	
EDI-6010-M	Super wide field SWF 10x/25 mm eyepiece with micrometer	
EDI-6010-CM	Super wide field SWF 10x/25 mm eyepiece with micrometer	
	and crosshairs	
EDI-6010-SG	Super wide field SWF 10x/25 mm eyepiece with	
	20 x 20 square grid reticle	
EDI-6012	Wide field WF 12.5x/17.5 mm eyepiece	
EDI-6015	Wide field WF 15x/16 mm eyepiece	
EDI-6020	Wide field WF 20x/12 mm eyepiece	

OBJECTIVES

EDI-8710 Infinity semi-apochromatic long working distance plan phase
Fluarex PLPHFi 10x/0.30, IOS objective PLPHi 10x/0.30 objective.
WD 10.2 mm

EDI-8720 Infinity semi-apochromatic long working distance plan phase
Fluarex PLPHFi 20x/0.45 objective. WD 7.5 to 8.8 mm

EDI-8740 Infinity semi-apochromatic long working distance plan phase
Fluarex PLPHFi S40x/0.60 IOS objective. WD 3 to 4.4 mm

EDI-8760 Infinity semi-apochromatic long working distance plan phase
Fluarex PLPHFi S60X/0.70 IOS objective. WD 1.8-2.6 mm

WD = working distance

Eyecups for eyepiece



DIFFERENTIAL INTERFERENCE CONTRAST

EDI-9690 Rotating DIC and BF disc condenser without DIC prisms for life science Delphi-X Inverso models. Needs one or more DIC-prisms (EDI-9660-xx), EDI-9690-10 DIC prism for rotating disc condenser (EDI-9690) EDI-9690-20 DIC prism for rotating disc condenser (EDI-9690) EDI-9690-40 DIC prism for rotating disc condenser (EDI-9690) **EDI-9690-60** DIC prism for rotating disc condenser (EDI-9690 EDI-9693-10 DIC insert with small prism to be used with 10x objective EDI-8710 EDI-9693-20 DIC insert with small prism to be used with 20x objective EDI-8720 EDI-9693-40 DIC insert with small prism to be used with 40x objective EDI-8740 EDI-9693-60 DIC insert with small prism to be used with 60x objective EDI-8760

STANDARD GENERAL PURPOSE FLUORESCENCE FILTER SETS

Long pass type:

EDI-9745 Fluorescence filter block for blue excitation with excitation at 460 to 495 nm, dichroic mirror at 505 nm and emission long pass filter from 510 nm EDI-9746 Fluorescence filter block for green excitation with excitation at 510 to 550 nm, dichroic mirror at 570 nm and emission long pass filter from 575 nm EDI-9747 Fluorescence filter block for violet excitation with excitation at 400 to 410 nm, dichroic mirror at 455 nm and emission long EDI-9748 Fluorescence filter block for ultra violet excitation with excitation at 330 to 385 nm, dichroic mirror at 410 nm and emission long pass filter from 420 nm EDI_9749 Empty cube for Delphi-X Inverso Fluorescence attachment

Band-pass type

EDI-9750.TRITC

Fluorescence filter block for blue excitation with excitation at 528 to 553 nm, dichroic mirror at 565 nm and emission band pass filter at 578 to 633 nm. Suitable for TRTIC

EDI-9750.FITC

Fluorescence filter block for green excitation with excitation at 460 to 495 nm, dichroic mirror at 505 nm and emission band pass filter at 510 to 550 nm. Suitable for FITC

EDI-9750.DAPI

Fluorescence filter block for ultraviolet excitation with excitation at 360 to 390 nm, dichroic mirror at 415 nm and emission band pass filter at 435 to 485 nm. Suitable for DAPI

EDI-9750.RED

Fluorescence filter block for red excitation with excitation at 620 to 650 nm, dichroic mirror at 660 nm and emission band pass filter at 670 to 750 nm

CAMERA ACCESSORIES

EDI-9810 C-mount with 1x magnification for C-mount camera EDI-9840 C-mount with high resolution 0.40x objective for 1/3 inch C-mount camera EDI-9850 C-mount with high resolution 0.50x objective for 1/2 inch C-mount camera

MISCELLANEOUS

EDI-9961 100 Watt 12 V halogen bulb EDI-9997 5 Watt LED replacement **EDI-9997-R** 5 Watt LED replacement for reflected illumination 500 mA 250 V fuses for LED models, 10pcs **EAE-5214 EAE-5216** 5 A 250 V fuses for halogen models, 10pcs ESL-1385 100 W HBO mercury vapor lamp for fluorescence

DICDOCABLEC

DISPOSABLES		
EPB-5155	Microscope slides 76 x 26 mm, ground edges,	
	50 pieces per pack	
EPB-5157-W	Microscope slides 76 x 26 mm, ground edges and frosted side	
	white color, 50 pieces per pack	
EPB-5157-B	Microscope slides 76 x 26 mm, ground edges and frosted sid	
	blue color, 50 pieces per pack	
EPB-5165	Cover glasses 18 x 18 mm, 0.13-0.17 mm, 100 pieces	
EPB-5168	Cover glasses 22 x 22 mm, 0.13-0.17 mm, 100 pieces	
EPB-5245	Lens cleaning paper, 100 sheets per pack	
EPB-5255	Immersion oil, 25 ml. Refraction index n = 1.515	
EPB-5274	Isopropyl alcohol 99%, 200 ml	
EPB-5275	Cleaning kit: lens fluid, lint free lens tissue/paper, brush, air	
	blower, cotton swabs	





