

# Delphi-X Inverso

for materials science

## HIGHLIGHTS

- Materials science applications
- Observation of materials science samples
- Brightfield, dark field, polarization
- DIC (differential interference contrast)
- Long working distance IOS plan semi apochromatic objectives
- Revolving sextuple nosepiece
- 100 W halogen reflected illumination



● DI.2053-PLMi

## TECHNICAL SPECIFICATIONS

### EYEPIECES

Pair of DIN HWF plan 10x/22 mm

### HEAD

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

### NOSEPIECE

Revolving sextuple nosepiece on ball-bearings. With DIC slot

### OBJECTIVES – 45 MM PARFOCAL

High numerical, infinity (Semi-)apochromatic bright-/darkfield objectives.

Long working distance, IOS, no cover glass correction, M26 mount

- Plan Semi-Apochromatic (PL-SAMi): 5x/0.15 WD 20 mm, 10x/0.30 WD 11 mm, 20x/0.45 WD 3.1 mm
- Plan Apochromatic (PL-AMi): 50x/0.80 WD 1 mm and optional 100x/0.90 WD 1 mm

Optional:

- DI.8100: Plan Apochromatic (PL-AMi) 100x/0.90 IOS BD objective, WD 1 mm, no coverglass correction, 45 mm parfocal, M26 mounting thread

WD = working distance

All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

### DI.2053-PLMi

414.5 (h) x 385 (w) x 627.5 mm (d) | 29 kg

### STAGE

Stage 340 x 230 mm, equipped with a coaxial mechanical

130 x 85 mm X-Y stage

Supplied with:

- Metal insert with hole  $\varnothing$  20 mm
- Metal insert with hole  $\varnothing$  28 mm
- Metal insert with drop-shaped hole

Maximum weight for sample: 30 kg

### MAGNIFICATION CHANGER

A magnification changer with a 1.5x lens allows intermediary magnifications of 1.5 times the standard objective magnifications. For example, switching from 20x or 50x to 30x to 75x magnification can be done without the need to change objectives

### MULTIFUNCTIONAL WHEEL

The Delphi-X Inverso has a 6-position multifunctional wheel, supplied with cubes for two brightfield, one darkfield and one polarization filter. Slider with prisms for the 5x/20x and 50x/100x magnifications and slider with analyzer. See photo 1 next page



● Bertrand lens and trino/eyepieces selector

**ADDITIONAL SLIDER SLOTS**

Besides a field diaphragm and condenser aperture, two slots are available. A slider with two neutral density filters is also supplied. See photo 2

**FOCUS ADJUSTMENT**

Low positioned coaxial with 10 mm coarse and fine adjustments focusing knobs, 1 µm precision and with friction adjustment

**CAMERA PORTS**

Beside the standard photo port of the head, there are two other photo parts at both both left and right side of the microscope. See photo 3

**ILLUMINATION**

reflected 100 W halogen Intensity adjustable with internal 100-240 V power supply. Fuse holder 1 A / 250 V



MODEL	Trino	LWD Plan Semi-Apo 5/10/20x	LWD Plan Apo 50x	LWD Plan Apo 100x	100 W Halogen illumination	DIC
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o = optional

## ACCESSOIRES

### EYEPIECES

Ø 30 mm

- DI.6010** Super wide field SWF 10x/25 mm f ocusable eyepiece for Delphi-X Inverso
- DI.6010-C** Super wide field SWF 10x/25 mm eyepiece with crosshairs
- DI.6010-M** Super wide field SWF 10x/25 mm eyepiece with micrometer
- DI.6010-CM** Super wide field SWF 10x/25 mm eyepiece with micrometer and crosshairs
- DI.6010-SG** Super wide field SWF 10x/25 mm eyepiece with 20 x 20 square grid reticle
- DI.6210** Super wide field SWF 10x/22 mm focusable eyepiece for Delphi-X Inverso
- DI.6012** Wide field WF 12.5x/17.5 mm eyepiece for Ø 30 mm tube for Delphi-X Inverso
- DI.6015** Wide field WF 15x/16 mm eyepiece for Ø 30 mm tube for Delphi-X Inverso
- DI.6020** Wide field WF 20x/12 mm eyepiece for Ø 30 mm tube for Delphi-X Inverso
- DI.6099-L** Eyshade for eyepieces

### OBJECTIVES 45 MM PARFOCAL

M26 mounting thread, no cover glass correction

- DI.8105** Infinity Plan Semi-Apochromatic PL-SAMi 5x/0.15 IOS BD objective, working distance 20 mm
- DI.8110** Infinity Plan Semi-Apochromatic PL-SAMi 10x/0.30 IOS BD objective, working distance 11 mm
- DI.8120** Infinity Plan Semi-Apochromatic PL-SAMi 20x/0.40 IOS BD objective, working distance 3.1 mm
- DI.8150** Infinity Plan Apochromatic PL-AMi 50x/0.80 IOS BD objective, working distance 1 mm
- DI.8100** Infinity Plan Apochromatic PL-AMi 100x/0.90 IOS BD objective, working distance 1 mm

BD = brightfield/darkfield

### DIFFERENTIAL INTERFERENCE CONTRAST (DIC)

- DI.9696** Differential interference contrast set (DIC). Includes two DIC prisms and a DIC analyzer for 5x upto 20x objectives
- DI.9691-52** DIC prism for nosepiece of materials science Delphi Inverso model. To be used with Plan Semi-Apochromatic 5x/20x objectives
- DI.9691-51** DIC prism for nosepiece of materials science Delphi Inverso models. To be used with Plan Apochromatic 50x/100x objectives
- DI.9698** DIC analyzer for nosepiece for Delphi-X Inverso

### MISCELLANEOUS

- DI.9810** C-mount with 1x magnification for 1 or 2/3 inch C-mount camera
- DI.9840** C-mount with 0,4x magnification for 1/3 inch C-mount camera
- DI.9850** C-mount with 0,5x magnification for 1/2 inch C-mount camera



● DI.6010-C ● DI.6010-M ● DI.6010-SG



● DI.6210 ● DI.9840



● Objectives



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