



# Microscope biological inverted, trinocular "XDS-1B"

ISO 9001



## APPLICATIONS

Optical microscope with many benefits, specially designed for biomedicine, biology and for culture analysis in matrix flasks and in microtitre plates, flasks, culture vessels, tubes etc. through the use of its objectives and long working distance condenser, technique uses brightfield or phase contrast.

## FEATURES

Robust stable design with lateral arm wrist supports for maximum comfort and easy manipulation.

**Trinocular head**, inclined 45°.

**Interpupillary distance adjustable** from 55 to 77 mm.

**Diopter correction** of ±5dp in the left eyepiece, used to correct differences in sharpness.

**Pair of DIN wide field WF 10x** (20 Ø), pair of **WF 16x** (14 Ø), plan eyepiece **PF 10x** (17.4 Ø). **Reticule** with 0.1 mm/div, telescopic central eyepiece phase contrast DZ11x DZ11x and trinocular photography eyepiece **S 5x** (9.5 Ø).

**Objectives DIN planachromatic brightfield, long working distance LWD PL** of 10x (A.N. 0.25/working distance W.D.=7.9 mm), 25x (A.N. 0.40/W.D.=5 mm), 40x (A.N. 0.40/W.D.=3 mm) and on **negative phase contrast LWD PL ph** of 25x (A.N. 0.25/W.D.=5 mm), colour coded for rapid identification.

Maximum thickness acceptable for receptacle bases 1.5 mm.

**Quadruple objectives turret** with rotation in both directions with a roller bearing and notch stop. Rack and pinion height adjustment mechanism with bilateral coaxial focus controls: **micrometer** of 0.2 mm rotation graduated at 0.002 mm increments and **macrometer** with adjustable tension.

Total working distance 12 mm.

**Condenser with long working distance (55.2 mm) LWD 0.3 A.N.**, brightfield and phase contrast. Precentred, with iris diaphragm and flip out phase contrast. **Including a phase ring of 25x**. Rack and pinions mechanism for height regulation or lateral removal for more height receptacles of up to 145 mm.

**Large stage: dimensions 180x155 mm**. Includes 2 holding clips for tubes and slides and 4 insert disks of varying size for optimum accommodation of differing sample vessels: plates and or culture flasks, microtitre plates, etc.

Mechanical sub-stage with graduated scale of 1 mm and vernier of 0.1 mm, made up of a smooth mechanism (x-y) rack and pinion drive with 50 mm longitudinal and 75 mm transversal.

**Illumination system, diascope** transmitted light by a halogen lamp of 6 V / 20W, precentred by external knobs and controllable intensity.

The unit includes a field diaphragm with filter carousel of green, yellow, blue and grey.

MODEL	Part No.	Height / Width / Depth exterior cm	Weight Kg
XDS-1B	5901998	50 28 30	15



Comes complete with 2 flasks, 2 culture plates, wooden holder for eyepieces, objectives and accessories, 2 lamps, 2 spare fuses and a protective cover.

## ACCESSORIES

Objectives planachromatic long working distance Negative phase contrast:

**Objective LWD PL ph 10x**  
(A.N. 0.25 160/1.5 W.D.=7.9 mm)

Part No. **5313190**

**Objective LWD PL ph 40x**  
(A.N. 0.60 160/1.5 W.D.=3 mm)

Part No. **5313192**

**Phase contrast ring 10x.**

Part No. **5313191**

**Phase contrast ring 40x.**

Part No. **5313193**

**CCD video camera eyepiece**

SO.65x.

Part No. **5313220**

**Adapter thread C**  
for video camera CCD.

Part No. **5313219**

**Video camera CCD.**

Part No. **5435038**

**Digital reflex photographic kit**, composed of a mount, a shutter and a SD memory card of 2Gb.

Part No. **5313222**

**Photographic eyepiece S6.3x.**

Part No. **5313221**

## SPARES

**Halogen lamp 6 V / 20 W.** Part No. **5313023**

5313190 5313192



5313191 5313193



5313219

5435038



5313222