



Fluorescence Microscope



BioSystems
REAGENTS & INSTRUMENTS



*Because accurate results
need high quality
reagents and reliable instruments.*

BioSystems develops the i-LD fluorescence microscope based on a high power solid-state light-emitting diode (LED), which replaces the traditional lamps of mercury or xenon used in epifluorescence microscopy.

- LEDs long lifetime: 50,000 hours.
- No alignment of light source: time saving and easier for user.
- No warm-up time: ready to use equipment.
- Higher signal-to-noise ratio.
- Allows transmitted light observation.
- High power efficiency and low consumption.
- No heat produced by LEDs: allowing longer observation time even with critical specimen.
- Smaller instrument footprint: space saving and more comfortable.



TECHNICAL SPECIFICATIONS

Optical system	Infinity corrected plan objectives, (10x, 20x and 40x) providing sharp images with high contrast right up to the edge of the field of view and for long hours of comfortable viewing.
Head	Binocular (30° inclined Seidentopf), 360° rotatable for comfortable sharing; dioptre adjustment with a special anti-fungus treatment; interpupillary distance adjustment (55 - 75mm). (Trinocular optional)
Mechanical Stage	Easy movement. Drop handle type right hand low drive coaxial mechanical stage (120mm x 140mm with traverse area of 50mm x 76mm).
Focusing System	Co-axial coarse & fine controls with a focus adjustment and fine adjustment knobs. Coarse Focus Range 28mm. Fine focus range 0.02mm.
Wide field illumination	WF 10x paired eyepiece. 6V, 20W halogen light source with pre-centred light condenser bulb coupled with a collector lens system provides optimum brightness along the optical path.
Fluorescence light source	High power blue LED (470 - 480nm).
Fluorescence filter	FTC.
Power supply	110 - 240V AC, 50Hz. Single phase.

