



Fluorescence Microscope LD-LFM-E10

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Overview

Fluorescence microscope LD-LFM-E10 is an advanced optical instrument designed for studying specimens at the microscopic level. Modular design enhances the compatibility of biological and fluorescence microscope systems. Viewing head is designed with multiple options for splitting ratio with wide beam imaging system. Coaxial adjustment utilizes double-stage driving with adjustable tension tightness.

Features:

- 3-stop viewing head enables simultaneous observation of three fluorescent signals
- Digital dimming with LED indicator ensures precise illumination control
- BF Nosepiece with DIC socket facilitates smooth imaging transition
- Integrated machine stage for the stable and reliable operation
- Swing-out condenser for flexible specimen handling
- Highly sensitive coaxial coarse and fine adjustment
- 6 fluorescence filters positioned on a rotating table for easy switching
- Power control system for mercury lamp

Applications:

Fluorescence microscopes are used for imaging and analyzing specimens with fluorescence properties across various fields, including biology, medicine, and materials science.

Specifications:

Frame	100 to 240 V built-in wideband voltage transformer, adopt digital dimming, with the function of light set and reset, built-in filter (LBD, ND6, ND25)
Stage	Double layers mechanical stage, size: 187 mm × 168 mm; moving range: 80 mm × 55 mm; precision: 0.1 mm. Bidirectional transmission, left and right position handle for option. Tension of the torque is adjustable.
Filter	Attenuation plate (Transmittance 50%)
Eyepiece	High-eyepoint Plan eyepiece PL10X/25 mm, Diopter adjustable
Condenser	Swing-out type achromatic condenser
Nosepiece	Sextuple nosepiece
Objective	Plan semi-apochromatic fluorescent objective 4X/0.13, 10X/0.30, 20X/0.50, 40X/0.75,

	100X/1.30 (infinity)
Illuminator	Six position disc reflection fluorescent Koehler illumination with IRIS diaphragm and aperture diaphragm (all center adjustable). Socket for filter inserter and polarizer device, with the fluorescent light shield in the front.
Optical System	Infinity color corrected optical system
Transmitted light	12 V 100 W halogen lamphouse (centred), 12V/100W halogen bulb
Focusing Adjustment	Fluorescence frame (transmitted), low-position coaxial coarse and fine adjustment, coarse adjustment distance: 25 mm; fine precision: 0.001 mm. With coarse adjustment stop and tightness adjustment.
Viewing Head Distance	30° inclined, inverted image, infinity gemel trinocular head with interpupillary distance 50 to 76 mm, three split ratio 0:100; 20:80; 100:0
Epi-fluorescent device	100 W mercury lamphouse Digital power control box of mercury lamp, voltage 90 to 240 V 100W DC mercury bulb Fluorescence filter (UV, B, G)