BX61WI
Olympus

Motorised fixed stage microscope

The BX61WI is the motorised version of the BX51WI fixed-stage microscope with a highly accurate Z-drive. It is the ideal tool for all automated physiological experiments, such as patch clamping and intravital microscopy. The fixed-stage concept and vibration-free frame design ensure excellent stability throughout the experiment. The use of infrared light protects living cells and offers high penetration depths of thick tissue slices, while high NA optics allow magnification changes without moving the objective.

Features:

- Vibration free design
- Swing and swing/slide nosepieces
- Infrared contrast and fluorescence imaging
- Modular motorization - Motorised modules include a fluorescence condenser with integrated shutter, filterwheels for illumination and observation light paths and stages; a remote focus control is available with programmable keys and Z-drive switch off function, avoiding electronic noise in measurements

Specifications

Optical system	UIS2 optical system
Focus	Motorized focusing using stepping motor and ball screw Nosepiece focus by cross roller guide Minimum graduation; fine: 1 m (sensitivity 1 m) resolution: 0.01 m, maximum stage movement speed: 3 mm/s Stroke per rotation; fine: 0.1 mm coarse: 1 mm Stroke: 25 mm, stage escape mechanism

Illuminator	Built-in Koehler illumination for transmitted light (F.N. 22) 12 V 100 W long life halogen bulb (pre-centered) (average lifetime: approximately 2,000 hours) Light adjustment: less than DC2 V g 12 V (continuous adjustment) Brightness adjustment, light preset switch
Nosepiece	Swing nosepiece with slot for DIC prism Slide nosepiece Single position nosepiece with slot for DIC prism Swing-slide nosepiece with slot for DIC prism
Observation tube	Trinocular, F.N.: 22, inclination angle: 30, interpupillary distance: 50 mm - 76 mm Erect image trinocular, F.N.: 22, inclination angle: 30, interpupillary distance: 50 mm - 76 mm WI-DPMC Double port magnification change unit, F.N.: 22, inclination angle: 24, interpupillary distance: 50 mm - 76 mm
Condenser	Universal condenser, N.A.: 0.8, W.D.: 5.7 mm, with variable A.S. mechanism, turret: 4-position, four DIC prisms attachable DIC condenser, one DIC prism attachable Oblique condenser, built-in variable oblique illumination stop
Fluorescence Illuminator	Manual reflected fluorescence, 6-position mirror turret unit, manual shutter Motorized reflected fluorescence, 6-position mirror turret unit, motorized shutter changeover speed: shutter speed: 0.1 s
Controller	Serial interface RS232C, built-in transmitted/reflected halogen power supply
Operating environment	Indoor use Ambient temperature: 5 to 40 C (41 to 104 F) Maximum relative humidity: 80% for temperatures up to 31 C (88 F), decreasing linearly through 70% at 34 C (93 F), 60% at 37 C (99 F), to 50% relative humidity at 40 C (104 F) Supply voltage fluctuations: Not to exceed 10% of the normal voltage

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