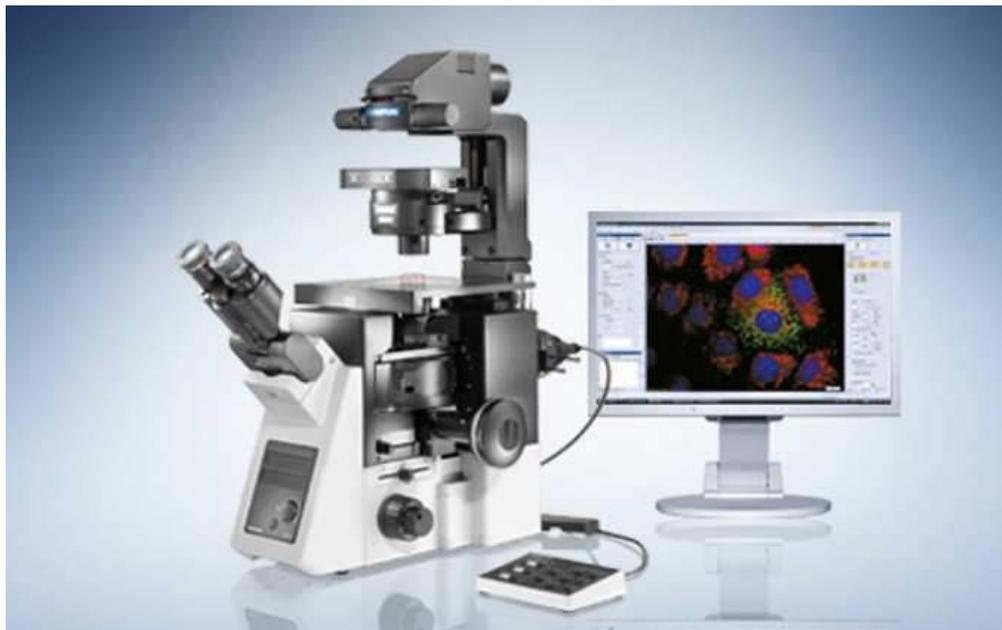


IX73

Olympus



Inverted Microscope System for Advanced Live Cell Imaging

The IX73 inverted microscope system sets new standards in advanced live cell imaging with its stable compact frame, outstanding optical performance and maximum flexibility. Manual encoded or semi-motorised options enable configurations with a variety of component combinations. The IX73 is available as a one-deck system with ergonomic low stage height or as a two-deck system with additional expansion capabilities. Both provide the ability to perform a multitude of imaging techniques, ranging from long term time-lapse imaging and other demanding cutting edge techniques to routine testing and documentation.

Features:

- Unique deck system
- Unsurpassed stability and compactness
- Dedicated to fluorescence imaging
- Modular motorization - Motorised modules include fluorescence and transmitted light condensers, filterwheels for illumination and observation light paths, shutters, stages and nosepieces

Specifications

MICROSCOPE FRAME	
Optical system	UIS2 optical system
Revolving nosepiece	<ul style="list-style-type: none"> ● Motorised sextuple revolving nosepiece (DIC slider attachable), simple waterproof structure ● Coded sextuple revolving nosepiece (DIC slider attachable), simple waterproof structure
Focus	Stroke: 10 mm

Light-path selection	0:100/50:50/100:0 (Left-side port: BI port)
Transmitted light illuminator	<p>Pillar tilt mechanism (30° inclination angle, with vibration-reducing mechanism), Condenser holder (with 88 mm stroke, refocusing mechanism), Field iris diaphragm adjustable, 4 filter holders Light source:</p> <ul style="list-style-type: none"> ● 12 V 100 W halogen bulb (pre-centred) ● High-colour-reproductive LED light source
OBSERVATION TUBE	
Wide-field (FN 22)	<ul style="list-style-type: none"> ● Wide-field tilting binocular ● Wide-field binocular ● Wide-field trinocular
STAGE	
Scanning stage with ultrasonic	Stage stroke: X: 76 mm x Y: 52 mm, maximum stage movement speed: 30mm/s
Mechanical stage with right handle	Stage stroke: X: 114 mm x Y: 75 mm, stage position locking function
Right-handle stage	Stage stroke: X: 50 mm x Y: 50 mm
Flexible right-handle stage	Stage stroke: X: 50 mm x Y: 50 mm
Gliding stage	Upper circular stage 360° rotatable, 20 mm (X/Y) travel
Plain stage	232 mm (X) × 240 mm (Y) stage size, stage insert plate exchangeable (ø110 mm)
CONDENSER	
Motorised long working distance condenser	W.D. 27 mm, NA 0.55, Motorised turret with 7 position slots for optical devices (3 positions for ø30 mm and 4 positions for ø38 mm), Motorised aperture and polariser
Long working distance universal condenser	NA 0.55, W.D. 27 mm 5 positions for optical devices (3 positions for ø30 mm and 2 position for ø38 mm)

Long working distance relief contrast	NA 0.5, W.D. 45 mm, 4 positions for optical devices (for ø50 mm, relief contrast optical devices rotatable)
Ultra long working distance	NA 0.3, W.D. 73.3 mm, 4 positions for optical devices (for ø29 mm)
FLUORESCENCE ILLUMINATOR	
L-shaped fluorescence illuminator with fly-eye lens	L-shaped design with exchangeable FS module
L-shaped fluorescence illuminator	L-shaped design with exchangeable FS and AS modules
Fluorescence illuminator	Straight design with field iris diaphragm
FLUORESCENCE MIRROR TURRET	
Motorised fluorescence mirror turret	Motorised turret with 8 positions, built-in shutter, simple waterproof structure
Coded fluorescence mirror turret	Coded 8-position turret, built-in shutter, simple waterproof structure
Fluorescence light source	<ul style="list-style-type: none"> ● 130 W Halogen light guide illumination ● 100 W Hg apo lamp housing and transformer ● 100 W Hg lamp housing and transformer ● 75 W Xenon lamp housing and transformer
FILTER WHEEL / SHUTTER	
Motorised fast filter wheel	High-speed mode 60 ms, Low-vibration mode 100 ms (rotation time to next hole on the wheel)
Motorised fast filter wheel for emission	High-speed mode 60 ms, Low-vibration mode 100 ms (rotation time to next hole on the wheel) C-mount adapter and bayonet mount adapter are enclosed
Motorised fast shutter	High-speed mode 26.2 ms, Low-vibration mode 60 ms (rotation time one way)

Motorised attenuator wheel	Time to shift to another filter 300 ms (rotation time to next hole on the wheel)
Operating environment	<ul style="list-style-type: none">o Indoor useo Ambient temperature: 5° to 40°C (41° to 104°F)o 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)o Supply voltage fluctuations: Not to exceed ±10% of the normal voltage

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