INVE600 – Inverted Cell Culture Microscope

Trinocular

Inverted Microscope

Koehler Illumination

Nosepiece

Revolving and reversed nosepiece for 5 objectives

UIS2 – Infinity corrected optical system

Infinity Plan Achromatic Objectives

LED Light source

3 W adjustable LED illumination or 30W tungsten-halogen* lamp

INVE600 Inverted Research grade Microscope

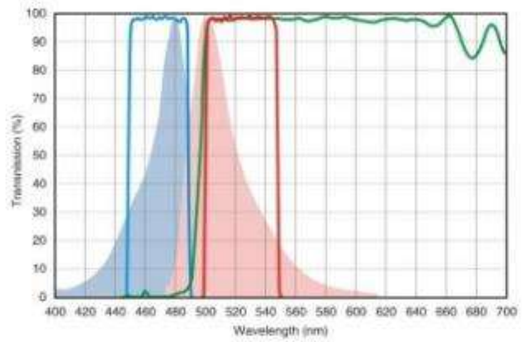
Intelligent operating system

- Objective lens code converter: It can memorize the illumination brightness when using each objective lens. When different objective lenses are converted to each other, the light intensity is automatically adjusted to reduce visual fatigue and improve work efficiency. Use one dimmer knob to perform multiple functions:
- Single click: enter standby state Double click: light intensity lock or unlock
- Rotate: adjust brightness Press + Rotate up: switch to upper light source
- Press + turn down: switch to the down light source. Press and hold for 3 seconds: set the time for the light to turn off when people leave.
- Microscope usage status display: The LCD screen at the front of the microscope can display the usage status of the microscope, including magnification, light intensity, standby status
- The condenser can be removed and put back by the operator
- It uses LED non-heat source lighting and causes little damage to cells. It is especially suitable for laboratory cell observation and as a microscope host for micromanipulation and other cell operations
- Larger working distance, wider operating space, and stronger container adaptability
- As cell research continues to deepen, cell culture containers continue to diversify, and the demand for flexibility of microscopes continues to increase, with larger operating space, wider scalability, higher observation accuracy and more diverse observation methods. This is the development trend of microscopes in the future. NIB600 is an indispensable aid in your cell research.

Pre-centered phase contrast slider, for magnifications 4x, 10x, 20x, 40x and with two additional empty holes min Ø 45mm (possibility of future addition of ring with inversion contrast option and ring for improved observation with the objective 2x

Tech specifications	INVE600B	INVE600T	INVE600F
Main configuration	Bright field	Phase contrast	Fluorescence
Illumination	Transmitted Illumination 3W S-LED 4000K Kohler Illumination		
Viewing Head	Seidentopf trinocular Viewing trinocular Head, Inclined at 45° , Interpupillary 48-75mm, Path of light: eyepieces 0% - camera 100%, eyepieces 100% -camera 0%		
Optical system	UIS2 – Infinity corrected optical system		
C-mount	1x C mount		
Eyepiece(F.O.V)	2pcs SW10x(FN22), 1pcs centering eyepiece		
Phase contrast slider	Pre-centered phase contrast slider, for magnifications 4x, 10x, 20x, 40x and with two additional empty holes min Ø 45mm (possibility of future addition of ring with inversion contrast option and ring for improved observation with the objective 2x		
Focusing	Coaxial Coarse and Fine Adjustment, the Function of Coarse Tightness Adjustment, Fine Division 1 um, Fine Stroke 0.2mm per Rotation, Coarse Stroke 37.5mm per Rotation. Up 7mm, Down 1.5mm		
Nosepiece	Quintuple Nosepiece		
LCD Screen	Function Display Magnification, Timing Sleep, Brightness Induction and Lock, …		
Objectives	Lplan4X N.A. 13 W.D. 16.4	Lplan PH4X N.A. 0.13 W.D. 16.4 (IPC)	Lplan FL2X N.A. 0.06 W.D. 5.05
	Lplan10X N.A. 0.25 W.D. 8.8	Lplan PH10X N.A. 0.25 W.D. 8.8 (IPC)	Plan Fluor 4X N.A. 0.13 W.D. 18.52
	Lplan20X N.A, 0.4 W.D. 3.2	Lplan PH20X N.A, 0.4 W.D. 3.2 (IPC)	Plan Fluor 10X N.A. 0.30 W.D. 7.11
	Lplan40XN.A. 0.55 W.D. 2.2	Lplan PH40X N.A. 0.55 W.D. 2.2 (IPC)	Plan Fluor 20X N.A. 0.45 W.D. 5.91
			Lplan FLPH20X N.A. 0.45 W.D. 5.91
			Plan Fluor40X N.A. 0.65 W.D. 1.61
			Lplan FLPH40X N.A. 0.65 W.D. 1.61
			Plan Fluor 60X N.A. 0.75 W.D. 1.04
Stage	**Mechanical stage:** measuring 252mm x 200mm, with metal center insert plate, working range of movement 110mm(X) x 74mm(Y) 37mm movement per rotation, supplied with micro plate holder which can be removed from the stage by lifting.		
	Plain stage: Exchangeable transparent insert plate is incorporated		
Sample holder	Additional universal sample holder - for Petri dishes (adjustable holder diameter), slides (standard slides), Terasaki plates, smaller 25cm2 cell culture flasks		
Condenser	**Maximum numerical aperture:** 0.3		
	Working distance: 76mm		
	Applicable objective magnification: 2X, 4X, 10X, 20X and 40X		
	The minimum height of the sample when the condenser is removed is 190mm,		
Standard accessories	Dust cover, Instruction manual. Power cord,		

Two-Band or three-band Filter Block Switching mechanism



High performance excitation

fluorescence filters blue, green… We can also provide specialized filter module for fluorescent probes according to the special requirements of detection and analysis

Mercury lamp power supply and power system

Semi-Apochromatic fluorescence objectives

A new generation of professional infinity plan semi-apochromatic fluorescence lens with high numerical apertures, which is 25% higher than ordinary plan objective lens, can excite the samples with brighter light and make a substantial increase in image resolution and clarity

Digital camera adapter C-mount

Microscopy image can be output to computer or monitor by connecting trinocular tube and camera device. Then image analysis, processing, storage and transmission would be available

COLO workstation with software

COLO smart cell image processing takes full advantage of Windows system resources comprehensively supports for Win10, Win11 pro, Linux, MAC… With strong hardware configuration 16GB RAM memory, 500GB SSD Hard Disc, Intel® Core™ i7 Processor, USB 3.1 Gen 2 port 27-inch-high resolution monitor, keyboard and mouse provide appropriate measurement functions, photography, video recording data storage…

INVE600T FLUO600LF FLUO600HF INVE600B