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# **ZFL-101 AB**

# **INFINITE FLUORESCENT**

# **MICROSCOPE**

# Infinite Fluorescent Microscope

## ZFL-101 AB

ZFL- 100 AA is an Infinite Fluorescent Microscope equipped with infinity optical system. It comes with revolving septuple reversed nosepiece, extra wide field eyepiece SW10x/25, eyepiece tube 30mm, diopter adjustment on both eyepieces.

It is also supplied with blue and green filters.



Infinity Plan optical system:  
4X, 10X, 20X, 40X (spring),  
100X (spring, oil)



Coaxial coarse and fine  
Adjustment, fine division  
1 $\mu$ m, moving range 25mm



High-point super wide field  
SW10x/25 mm eyepiece,  
Ø30mm tube, diopter adjustable  
on both eyepieces



Siedentopf trinocular with  
30° inclined tubes



Double layer mechanical  
stage 190×166/80x55mm  
with Gorilla glass insert,  
with right handle



## Specifications

## ZFL-101 AB

<b>Optical System</b>	NIS60 Infinite optical system
<b>Viewing head</b>	Siedentopf trinocular with 30° inclined tubes Interpupillary distance adjustable between 50 and 76mm, 3-Position beam splitter (100:0/80:20/0:100) diopter adjustment on both eyepieces
<b>Eyepiece</b>	High-point super wide field SW10x/25 mm eyepiece, Ø30mm tube, diopter adjustable on both eyepieces
<b>Nosepiece</b>	Revolving septuple reversed nosepiece on ball-bearings with DIC slot
<b>Objectives</b>	Plan achromatic infinity corrected objective, NIS60 Plan 4x/0.10, working distance 15mm Plan achromatic infinity corrected objective, NIS60 Plan 10x/0.25, working distance 10.8mm Plan achromatic infinity corrected objective, NIS60 Plan 20x/0.40, working distance 1.5mm Plan achromatic infinity corrected objective, NIS60 Plan S40x/0.65, working distance 0.80mm Plan achromatic infinity corrected objective, NIS60 Plan S100x/1.25 oil immersion, working distance 0.21mm
<b>Stage</b>	Double layer mechanical stage 190×166/80×55mm with Gorilla glass insert, with right handle
<b>Focusing System</b>	Coaxial focusing system with low-position X-Y coaxial control knob, the ergonomic design provides operators comfortable experience, fine division 1μm, moving range 25mm, adjustable elastic device and upper limit device to prevent specimen slide
<b>Condenser</b>	Achromatic condenser with swing out top lens N.A.0.90/0.25. The diaphragm settings are clearly marked for numerical aperture calculations. Accommodates objective magnifications from 2x to 100x (flip out the top lens for 2x). Easily installs into the condenser carrier with a thumb screw, centerable for Köhler illumination
<b>Illumination</b>	12V/100W halogen lamp, built-in 100-240V wide voltage system, come with digital light intensity adjustment system with light intensity setting and reset function, built-in transmitted light filter (LBD, ND6, ND25)
<b>ECO Function</b>	The unique sensor is developed to avoid unnecessary loss of energy. The illumination of the microscope automatically switches off after users step away from their position for 30 minutes.
<b>Epi-Fluorescent kit</b>	Epi-Fluorescent Attachment "FL-800", equipped with a rotating block which contain max. 6 filter cubes. Supplied with 100W HBO mercury vapor light source for broad powerful light spectrum, power supplier NFP-1, 220V/110V interchangeable, with digital display and timer Protection barrier to resist the ultraviolet light Fluorescence Free Oil Supplied with standard fluorescence filters sets for Blue excitation and Green excitation BLUE Filter Block: Excitation BP460~490 - Dichroic Mirror DM500 - Barrier Filter BA520 GREEN Filter Block: Excitation BP510~550 - Dichroic Mirror DM570 - Barrier Filter BA590