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ZFL-100 AA

INFINITE FLUORESCENT

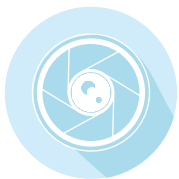
MICROSCOPE

Infinite Fluorescent Microscope

ZFL-100 AA

ZFL- 100 AA is an Infinite Fluorescent Microscope equipped with infinity optical system. It comes with Backward quintuple revolving nosepiece, extra wide field eyepiece EW10×/22, eyepiece tube 30mm, diopter adjustment on left eyepiece.

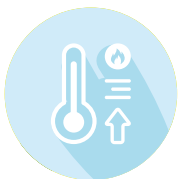
It is also supplied with dust cover, sparse fuse, blue and green filters.



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



Coaxial coarse and fine
Adjustment, fine division
0.001mm, coarse stroke
37.7mm



Heating stage, temperature
Controlling range: room
temperature to 50°C (optional)



Compensation free trinocular
head inclined at 30°, 360° rotation



Extra wide field eyepiece
EW10×/22, eyepiece tube
30mm, diopter adjustment
on left eyepiece



Ceramic stage 230x150mm
with integrated 75x50mm X-Y
mechanical stage is protected
against marks and scratches
with a very tough ceramic surface



Specifications

ZFL-100 AA

Optical System	Infinity Optical System
Viewing head	Compensation free trinocular head inclined at 30°, 360° rotation, Interpupillary distance 48-75mm, diopter adjustment +/-5, split ratio: 50/50, with 0.5x C mount
Nosepiece	Backward quintuple revolving nosepiece
Eyepiece	Extra wide field eyepiece EW10x/22, eyepiece tube 30mm, diopter adjustment on left eyepiece
Objectives	Infinite plan achromatic objective 4x/0.10 Infinite plan achromatic objective 10x/0.25 Infinite plan achromatic objective 40x/0.65, spring loaded Infinite plan achromatic objective 100x/1.25, spring loaded, oil
Stage	Ceramic stage 230x150mm with integrated 75x50mm X-Y mechanical stage is protected against marks and scratches with a very tough ceramic surface. The surface also ensures stray light not to be reflected from the stage into the objective
Focusing System	Coaxial coarse and fine Adjustment, fine division 0.001mm, coarse stroke 37.7mm per rotation, fine stroke 0.1mm per rotation, moving range 24mm
Condenser	Swing-out condenser NA0.2/0.9
Illumination	S-LED illuminator (about 5W) with Kohler attachment, rightness adjustable, lifetime more than 65,000 hours
Phase contrast set	Complete Phase Contrast Set with infinite plan phase objective 10x 20x 40x 100x with turret BF/DF/PH condenser, Telescope, green filter
Epi-Fluorescent kit	<ul style="list-style-type: none"> - LED Epi-Fluorescent Attachment "FE-800", equipped with a rotating block which contain max. 6 filter cubes. - Supplied with LED light source for broad powerful light spectrum - Power supplier 100-240V, 50/60Hz, Multi-plug(EU, UK, US) - Protection barrier to resist the ultraviolet light - 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 - Fluorescence Free Oil (More fluorescence filter sets & infinite plan fluorescent objectives are available for option)
Heating stage	Heating stage, temperature Controlling range: room temperature to 50°C (optional)
Supplied with	Dust cover, spare fuse, blue & green filters
Others	External rechargeable battery pack (optional)
Power	110v or 220V, 50/60Hz
Digital camera	Mlchrome 6 digital camera, 6MP, USB3.0, CMOS, with imaging software



Optional Accessories

Infinite binocular head
Infinite trinocular head
Ergonomic Titable Binocular head 5~35°
Ergonomic Titable Binocular head 5~35° with Trinocular adapter
Trinocular head with 9.7" LED screen, intergrated with digital camera 5M pixels, Android OS, HDMI, USB, SD Card, Wi-Fi, Mouse Control
Eyepiece WF10x/22mm
Eyepiece WF10x/22mm with diopter adjustment
Eyepiece WF10x/24mm with diopter adjustment
Eyepiece WF15x/16mm with diopter adjustment
Eyepiece WF20x/12mm with diopter adjustment
Eyepiece WF30x/8mm with diopter adjustment
Reticle
Backward quintuple revolving nosepiece
Backward sextuple revolving nosepiece
Infinite plan achromatic objective 2x/0.05
Infinite plan achromatic objective 4x/0.10
Infinite plan achromatic objective 5x/0.12
Infinite plan achromatic objective 10x/0.25
Infinite plan achromatic objective 20x/0.40
Infinite plan achromatic objective 40x/0.65, spring loaded
Infinite plan achromatic objective 60x/0.80, spring loaded
Infinite plan achromatic objective 100x/1.25, spring loaded, oil
Double layer mechanical stage 185X142mm, moving range 75X55mm
Ceramic stage 230x150mm with integrated 75x50mm X-Y mechanical stage is protected against marks and scratches with a very tough ceramic surface. The surface also ensures stray light not to be reflected from the stage into the objective
External Illumination, aspherical collector, halogen Lamp house 6V/30W
External Illumination, aspherical Collector, halogen Lamp house 24V/100W
Halogen bulb
3W LED illumination
5W LED illumination
Kohler illumination attachment
NA 1.25 Sliding-in Centerable Condenser
Swing-out condenser NA0.9/0.25
Dark Field Condenser NA0.7-0.9 (Dry)
Dark Field Condenser NA1.25-1.36 (Oil)
Digital Camera (Please refer to our digital camera brochure)

Infinity plan darkfield objective 100x for oil dark field condenser
Infinity plan darkfield objective 100x with iris diaphragm for oil dark field condenser
Sliding Phase Contrast Condenser with Plug in plate 10x, 40x (Magnification of Plug-in plate can be choose from 10x 20x, 40x, 100x as users' wish)
Turret phase contrast condenser (for phase 10x, 20x/40x, 100x)
Infinite Phase Contrast Objective PH10x/0.25
Infinite Phase Contrast Objective PH20x/0.40
Infinite Phase Contrast Objective PH40x/0.65
Infinite Phase Contrast Objective PH100x/1.25
Phase centering telescope
Green filter
Simple Polarization Set: Polarizer & Analyzer
Temperature control system: 5W LED illumination, temperature Controlling range: room temperature to 50°C
Drawing attachment DA-2 for infinite model
LED Epi-Fluorescent Attachment "FL-LED" LED 3W BLUE 465-475nm, including LED fluorescent filter block system; fluorescent filter block B excitation filter included.
BLUE (B) Filter Block (used for FL-LED): Excitation BP460-490 - Dichroic Mirror DM505 - Barrier Filter BA515
GREEN (G) Filter Block (used for FL-LED): Excitation BP510~550 - Dichroic Mirror DM570- Barrier Filter BA590
Epi-Fluorescent Attachment "FL-800": Including filter block system (max. six blocks acceptable); fluorescent filter block B & G excitation filter block included; 100W HBO ultra hi-voltage spherical mercury lamp; power supplier NFP-1, 220V/110V interchangeable digital display and timer; protection barrier to resist the ultraviolet light; fluorescent oil.
BLUE Filter Block: Excitation BP460~490 - Dichroic Mirror DM500 - Barrier Filter BA520
GREEN Filter Block: Excitation BP510~550 - Dichroic Mirror DM570 - Barrier Filter BA590
ULTRAVIOLET Filter Block: excitation BP330~385 - DM400 - Barrier Filter BA420
VIOLET Filter Block: excitation BP400~410 - DM455 - Barrier Filter BA455
RED filter Block: excitation: BP620-650, Dichroic Mirror: DM660, Barrier: BA670-750
Infinite plan fluorescent objective 4x/0.13, WD 16.3mm
Infinite plan fluorescent objective 10x/0.3, WD 12.4mm
Infinite plan fluorescent objective 20x/0.5, WD 1.5mm
Infinite plan fluorescent objective 40x/0.75, WD 0.35mm
Infinite plan fluorescent objective 100x/1.30, WD 0.13mm
1X C mount
0.5X C mount