BS-2081 Research Biological Microscope

Introduction

BS-2081 biological microscope has been designed to present a safe, comfortable and precision observation experience. With perfectly performed structure, high-definition optical image and ergonomical operating system, BS-2081 realizes professional analysis and meets all the needs of research in biological, medical, life science and other fields.

Features

1. Sapphire Glass Stage is optional.

Mechanical stage with sapphire glass insert is optional, it is endurable, never could be scratched and allows users to clear the stage easily.

2. Put Slide by One Hand.

It is easy for users to put slides by one hand due to the special designed slide clip.

3. Tilting Trinocular Head is optional.

(1) The eye tube can be adjusted from 0°-35°.
(2) Digital cameras or DSLR cameras can be connected to the trinocular tube.
(3) The beam splitter has 3-position (100:0, 20:80, 0:100).
(4) The splitter bar can be assembled on the either side according to user's requirements.

4. ECO Function.

The transmitted light would be off automatically after 30 minutes from operators leave. It can not only save energy, but also keep the lamp life longer.

5. Low Position X-Y Knobs.

The height of the stage control knobs can be adjusted up or down by 18mm to ensure a comfortable hand position, the tension of X-Y control knob also can be adjusted.

Application

BS-2081 research microscope is an ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

Specification

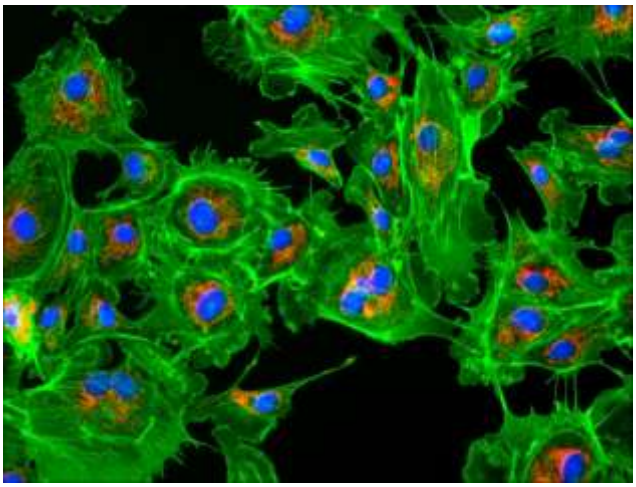
Item	Specification	BS-2081
Optical System	NIS60 Infinite Color Corrected Optical System	•
Viewing Head	Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100	•

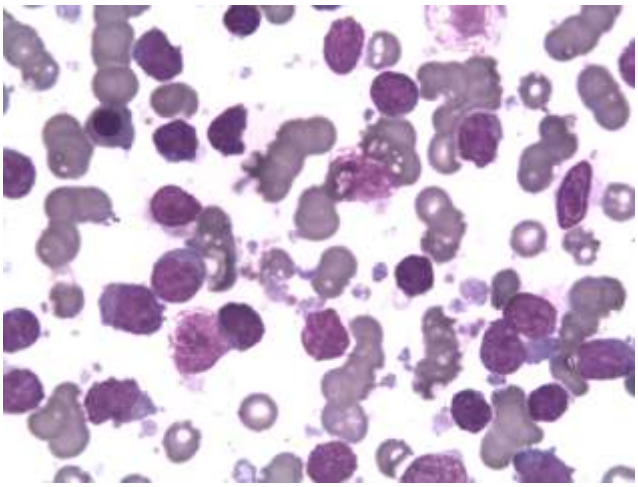
	Ergo Tilting Trinocular Head, adjustable 0-35° inclined, interpupillary distance 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100		○
	Seidentopf Binocular Head, 30° inclined, interpupillary distance: 47mm-78mm		○
Eyepiece	Super wide field plan eyepiece SW10X/25mm, diopter adjustable		●
	Super wide field plan eyepiece SW10X/22mm, diopter adjustable		○
	Extra wide field plan eyepiece EW12.5X/17.5mm, diopter adjustable		○
	Wide field plan eyepiece WF15X/16mm, diopter adjustable		○
	Wide field plan eyepiece WF20X/12mm, diopter adjustable		○
Objective	N-PLN Plan Objective	N-PLN 2X/NA=0.06, WD=7.5mm	○
		N-PLN 4X/NA=0.10, WD=30mm	●
		N-PLN 10X/NA=0.25, WD=10.2mm	●
		N-PLN 20X/NA=0.40, WD=12mm	●
		N-PLN 40X/NA=0.65, WD=0.7mm	●
		N-PLN 100X(Oil)/NA=1.25, WD=0.2mm	●
		N-PLN 50X(Oil)/NA=0.95, WD=0.19mm	○
		N-PLN 60X/NA=0.80, WD=0.3mm	○
		N-PLN-I 100X (Oil, with Iris Diaphragm)/ NA=0.5-1.25, WD=0.2mm	○
	N-PLN PH Plan Phase Contrast Objective	N-PLN PH 10X/NA=0.25, WD=10.2mm	○
		N-PLN PH 20X/NA=0.40, WD=12mm	○
		N-PLN PH 40X/NA=0.65, WD=0.7mm	○
		N-PLN PH 100X(Oil)/NA=1.25, WD=0.2mm	○
	N-PLFN Plan Semi-apochromatic Fluorescent Objective	N-PLFN 4X/NA=0.13, WD=17.2mm	○
		N-PLFN 10X/NA=0.30, WD=16.0mm	○
		N-PLFN 20X/NA=0.50, WD=2.1mm	○
		N-PLFN 40X/NA=0.75, WD=1.5mm	○
		N-PLFN 100X(Oil)/NA=1.4, WD=0.16mm	○
Nosepiece	Backward Sextuple Nosepiece (with DIC slot)		●
Condenser	Swing-out type condenser N.A.0.9/0.25		●
	Turret Phase Contrast Condenser		○
	Dark-field Condenser (Dry), used for objectives lower than 100X		○
	Dark-field Condenser (Oil), used for 100X objective		○
Transmitted Illumination	3W S-LED lamp, center pre-set, intensity adjustable		●
	12V/100W halogen lamp, center pre-set, intensity adjustable		○
Focusing	Low-position coaxial coarse and fine focusing, fine division 1μm, Moving range 35mm		●
Stage	Double layers mechanical stage, size 190mmX152mm; moving range 78mmX54mm (double slide holder, Right or left handle); precision: 0.1mm		●
	Double layers mechanical stage, size 190mmX152mm; moving range 78mmX54mm (double slide holder, Right or left handle); precision: 0.1mm; with Sapphire Crystal Glass Insert		○
DIC Kit	10X DIC Objective Lens		○
	20X DIC Objective Lens		○
	Polarizer for DIC Kit		○

	DIC insert plate(10X/20X), can be inserted into the DIC slot on nosepiece	○
	DIC insert plate(40X/100X) can be inserted into the DIC slot on nosepiece	○
	DIC Turret Condenser	○
Reflected fluorescence illuminator	Turret with 6 filter block cubes position, with iris field diaphragm and aperture diaphragm, central adjustable; with filter slot and polarizing slot; with fluorescence filters (B,G,U,V,R fluorescent filters are available).	○
	100W mercury lamp house, filament center and focus adjustable; with reflected mirror, mirror center and focus adjustable.	○
	Digital power controller, wide voltage 100-240VAC	○
	ND6/ND25 Filter	○
Other Accessories	0.5X C-mount Adapter	○
	1X C-mount Adapter	○
	Dust Cover	●
	Power Cord	●
	Cedar Oil 5ml	●
	Simple Polarizing kit	○
	Calibration slide 0.01mm	○
	Multi Viewing Attachment for 2/3/5/7/10 person	○

Note: ● Standard Outfit, ○ Optional

Sample Image





Accessories

1. N-PLN Series Plan Objectives.

The Plan objectives can provide flat high transmittance image from visible light to NIR light. They are usually used for bright-field viewing as the high signal-to-noise, high resolution and high contrast features.

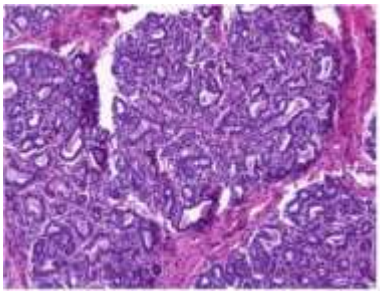
2. N-PLN PH Series Plan Phase Contrast Objectives.

These plan phase contrast objectives are specially designed for phase contrast observation. They are good choice for clinic and scientific research. These objectives can provide advanced flat image of 25mm FOV under transmitted bright field.

3. N-PLFN Series Plan Semi-APO Fluorescent Objectives.

Owe to the multilayers coating technology, these Semi-APO objectives can compensate the spherical aberration and the chromatic aberration from ultraviolet and infrared light. High-sensitive fluorescence performance of the objectives ensures the sharpness, definition and color rendition of images.

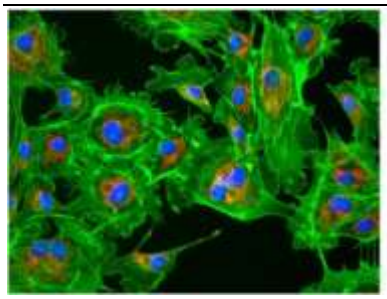
4. Bright field Viewing.



Brighter image, high resolution and flatness, suitable for all the magnifications.

Mammary Gland (active stage)

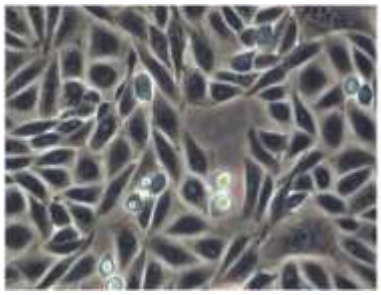
5. Fluorescent Viewing.




Arterial Cell

The compact epi-fluorescent components include noise elimination feature which ensures images captured are bright, with high contrast and high signal-to-noise ratio.

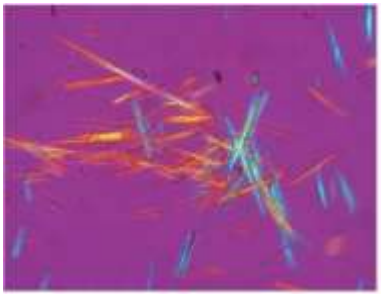
6. Phase Contrast Viewing.




Rat Ovarian Cell

Users can get high contrast image of neutral background color whatever the magnification is. It is suitable for viewing non-stained specimen.

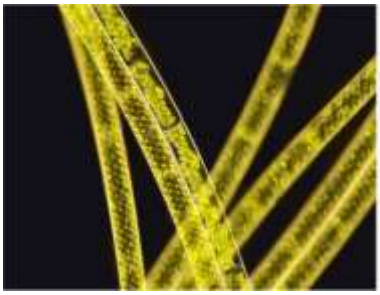
7. Polarizing Viewing.




Uric Acid Crystal

It is quite suitable for viewing collagen, amyloid and crystal etc., double refracting specimens.

8. Dark-field Viewing.




Spirogyra

It can be used for clearly viewing of blood or flagellum etc., fine structure.

9. Multi Viewing Heads.

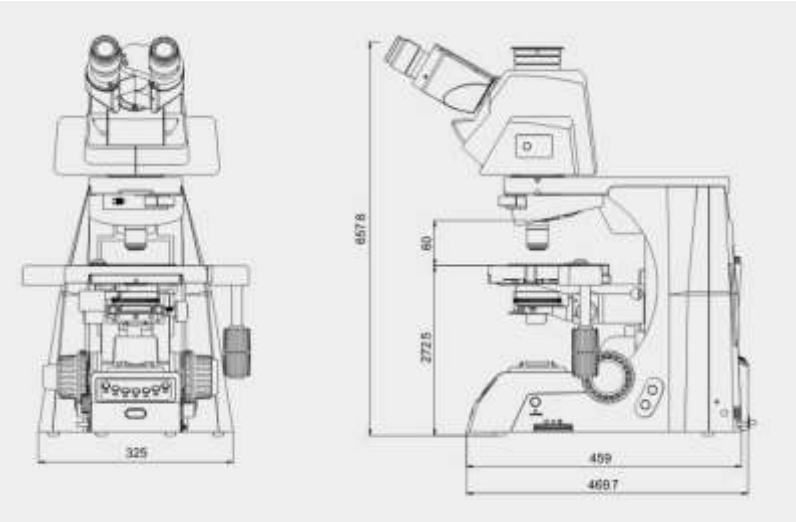
BS-2081MH4A (For 2 users, Face to Face)

BS-2081MH4B (For 2 users, Side to Side)

BS-2081MH10(For 5 users)

BS-2081MH20 (For 10 users)

Dimension



Unit: mm