

BS-2076 Research Biological Microscope



BS-2076T

Introduction

The latest BS-2076 series microscopes are designed for professional laboratory microscopic observation. On the one hand it has upgraded optical system, NIS infinity optics system provides excellent extendibility for this microscope, high numerical aperture (NA) plan achromatic objective and various types of optical components which have adopted multilayer coating technology could ensure the high image quality. On the other hand, improving comfort and operation convenience continuously, and the LCD screen in front of the microscope displays real-time working status of microscope, universal condenser, stopper that can be used to set the upper limit of the stage height etc., these structures ensure that even beginners can use it smoothly. Ergonomic design helps you to stay focused for longer by reducing the strain on your body, which is the best choice for scientific research experimenters and medical examiners for microscopic observation.

Features

1. High quality Infinite Plan Achromatic Objectives.

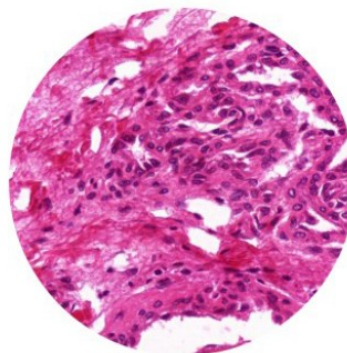
BS-2076 has adopted NIS series infinite plan achromatic objectives, which feature flat, sharp images up to the

periphery of the field of view. High numerical aperture(NA) and long working distances, high resolution, can restore the real colors and realize accurate observation of samples.

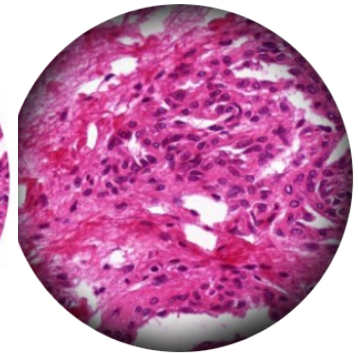


2. Kohler illumination, uniform brightness throughout the field of view.

Adding a Kohler mirror in front of light source to provide bright and uniform field of view. Work together with the infinite optical system and high-resolution objective, provides you perfect microscopic imaging.



Kohler Illumination



Critical Illumination

3. Comfortable and worry-free focus knob.

Low position focus knob design, different areas on the specimen slide can be easily explored while resting your hands on the table, with adjustable torque could improve comfort. BS-2076 is equipped with a stopper that can be used to set the upper limit of the stage height, the stage stops at the set height even when the focus knob is turned, thereby eliminating the risk of over-focusing and breaking the slides or damaging the objectives.



4. Put slide by one hand.

Slides can be quickly slid in and out with one hand. The universal sample holder is suitable for a variety of slide types, such as Hemocytometer.



5. Easy-to-rotate coded quintuple nosepiece.

High-precision machining ensures smoothness and durability in use. The coded nosepiece features an easy grip for smooth rotation, and accommodates up to five objectives, users can also choose 2X objective with large field of view, phase contrast and semi-APO objectives.

6. Uniform and stable brightness.

The LED light source with color temperature adjustment function, which could produce daylight



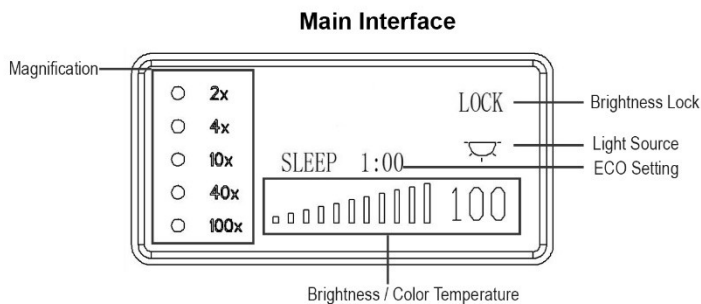
lighting conditions, so that the sample presents a natural color. The designed life span of LED lamp is 50,000 hours, which not only reduces maintenance costs, but also keeps the brightness stable during use.

7. Universal condenser is more convenient to use.

Users can switch from 4X to 100X without moving the top lens. Contrast adjustment is performed by adjusting the iris diaphragm.

8. Working status display.

Working status including magnification, brightness, color temperature, stand by status are shown on the LCD screen which is in front of microscope.

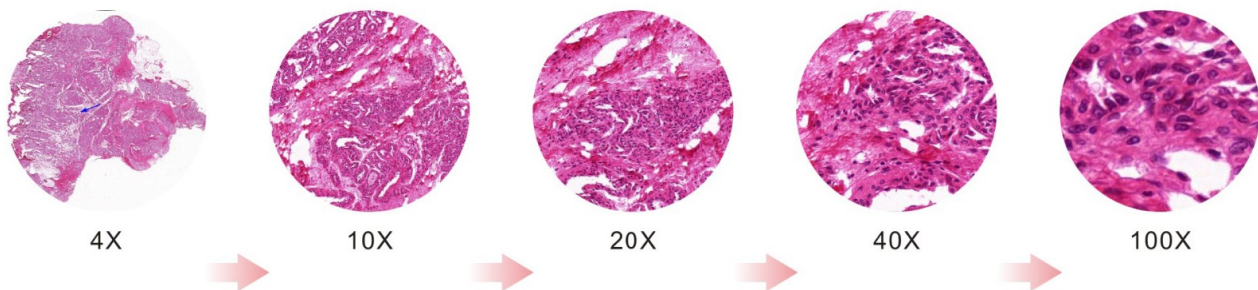


9. Smart illumination management design.

Longtime microscope observation requires frequent magnification switching, brightness adjustment, color temperature adjustment, etc. BS-2076 simplifies these repetitive mechanical operations and displays status on the LCD to improve work efficiency and provide comfortable operation experience.

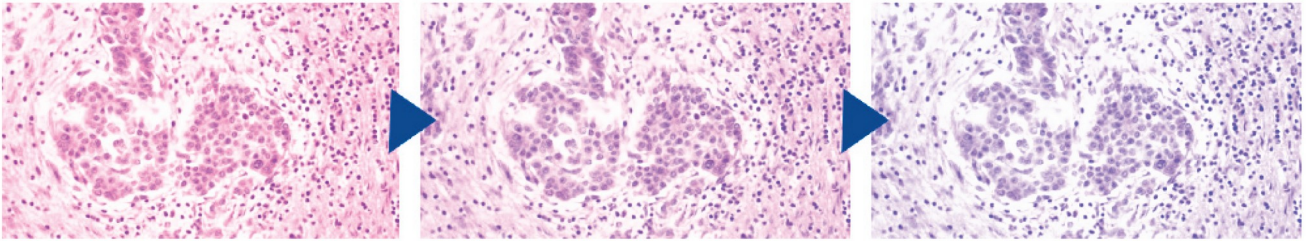
(1) Maintains comfortable brightness when switching magnifications.

BS-2076 features intelligent Light Intensity Management which automatically remembers and sets the light intensity level for each objective, with this function, users can increase comfort and save time when it requires frequent magnification changes.



(2) Color temperature adjustable.

With color temperature adjustment function, the LED light source produces daylight lighting conditions, so that the sample presents a natural color. Since the color temperature can be changed according to observation demand, the brightness and color temperature could keep users feel comfortable.



(3) Realize various functions with one brightness control knob.

- *Single click: enter standby status
- *Double click: light intensity lock or unlock
- *Rotate: adjust brightness
- *Press and rotate up direction: adjust brightness
- *Press and rotate down direction: adjust color temperature
- *Hold the press for 3s: setting ECO

(4) Automatically power off after a period of inactivity.

BS-2076 is equipped with an ECO mode which automatically turns off the illumination after a certain period of inactivity, the length of the inactivity period is adjustable, with ECO mode, it helps you save power and extend microscope life.

10. Easier transportation and storage.

BS-2076 is equipped with a special handle, which is light and stable. Its back board is designed with a hub device, which effectively accommodates excessive long power cords and improves cleanliness of the laboratory. At the same time, it also reduces trip accidents caused by excessive long power cords during transportation.



Application

BS-2076 series research microscopes are ideal instruments in biological, histological, pathological, bacteriological, hematological, immunological, pharmaceutical and life science fields, they could be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities for teaching, research and examinations.

Specification

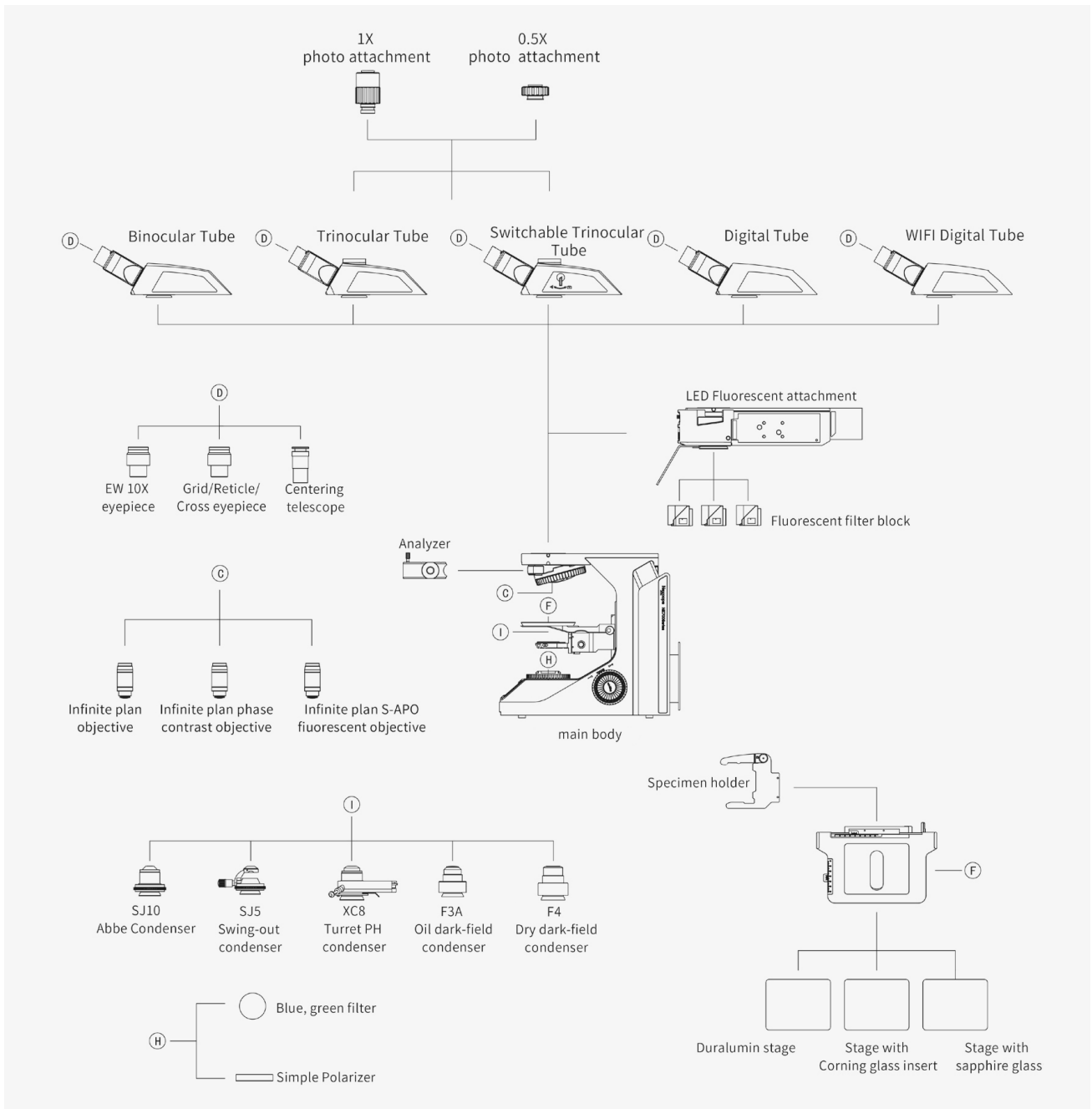
Item	Specification	BS-2076B	BS-2076T	
Optical System	NIS60 Infinite Color Corrected Optical System	●	●	
Viewing Head	Seidentopf Binocular Head, 30° inclined, 360° rotation, interpupillary distance: 47mm-78mm	●	○	
	Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-78mm; splitting ratio(fixed): Eyepiece:Trinocular=50:50	○	●	
	Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-78mm; splitting ratio(adjustable): Eyepiece:Trinocular=100:0/0:100	○	○	
	Ergo Tilting Seidentopf Binocular Head, adjustable 0-35° inclined, interpupillary distance: 47mm-78mm	○	○	
	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 with built-in USB2.0 digital camera, 30° inclined, 360° rotation, interpupillary distance: 47mm-78mm	○	○	
	Seidentopf Binocular Head with built-in WIFI & HDMI digital camera, 30° inclined, 360° rotation, interpupillary distance: 47mm-78mm	○	○	
Eyepiece	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	Infinite Plan Achromatic 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 100X(Water)/NA=1.10, WD=0.2mm	○	○
	Infinite 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	○	○
	Infinite 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 Quintuple Coded Nosepiece (with DIC slot)	●	●	
Condenser	Abbe Condenser N.A.0.9, with Iris diaphragm	●	●	
	Swing-out achromatic condenser N.A.0.9/0.25, with Iris diaphragm	○	○	
	NA1.25 Sliding-in Turret Phase Contrast Condenser	○	○	
	NA0.7-0.9 Dark-field Condenser (Dry), used for objectives lower than 100X	○	○	
	NA1.3-1.26 Dark-field Condenser (Oil), used for 100X objective	○	○	
Transmitted Illumination	3W S-LED lamp, center pre-set, intensity adjustable; LCD screen displays magnification, time sleeping, brightness and lock, color temperature adjustable	●	●	
LED Fluorescent Attachment	LED fluorescent attachment with LED illumination, 4-position fluorescent turret, with iris diaphragm, B,G,U,R fluorescent filters are available	○	○	
Mercury Fluorescent Attachment	Turret with 6 filter block cubes position, with iris field diaphragm and aperture diaphragm, central adjustable; with filter slot; with B, G, U fluorescence filters (B, G, U, V, R, FITC, DAPI, TRITC, Auramine, Texas Red and mCherry 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	○	○	
Focusing	Low-position coaxial coarse and fine focusing, fine division 1μm, Moving range 28mm	●	●	
Stage	Double Layer Rackless Stage 235x150mm, moving range 78x54mm, hard oxidized plate; can be upgraded to tempered glass stage or sapphire stage, precision: 0.1mm	●	●	
DIC Kit (Should work with Semi-APO objectives)	10X, 20X/40X, 100X Warrior Prism (works in the DIC Turret Condenser)	○	○	
	Polarizer for DIC Kit	○	○	
	10X-20X DIC insert plate (can be inserted into the DIC slot on nosepiece)	○	○	
	40X-100X DIC insert plate (can be inserted into the DIC slot on nosepiece)	○	○	
	DIC Turret Condenser	○	○	
Other Accessories	0.5X C-mount Adapter	○	○	
	1X C-mount Adapter	○	○	
	Dust Cover	●	●	
	Power Cord	●	●	

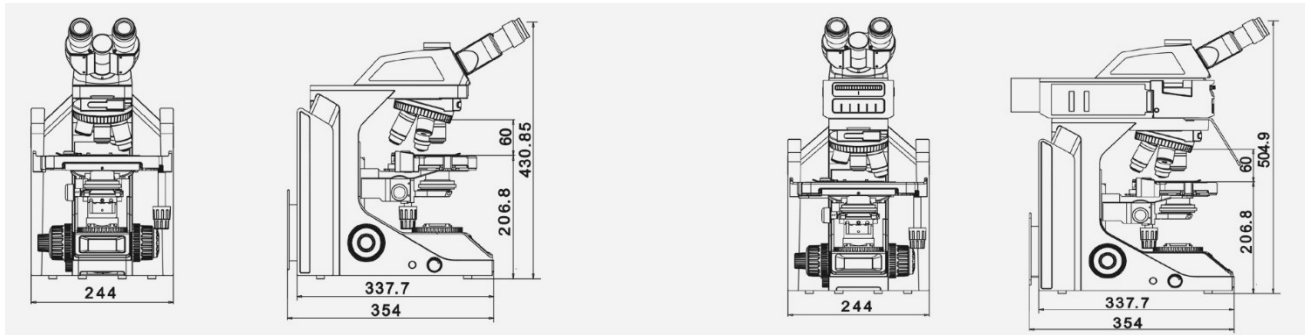
	Cedar Oil 5ml	●	●
	Simple Polarizing kit	○	○
	Calibration slide 0.01mm	○	○
	Multi Viewing Attachment for 2/3/5/7/10 person	○	○

Note: ● Standard Outfit, ○ Optional

System Diagram



Dimension



Unit: mm

Sample Image

