



A12.0921

Biological Microscope



To ensure the safety and obtain satisfactory performance, please study this instruction manual thoroughly before start to use the instrument.

Product Details



A12.0921-B



A12.0921-T



User- -friendly Design to Increase Comfort and Safety

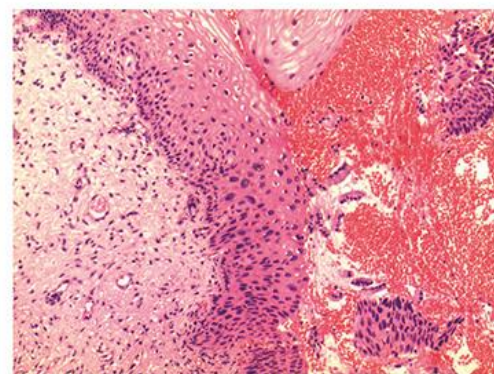
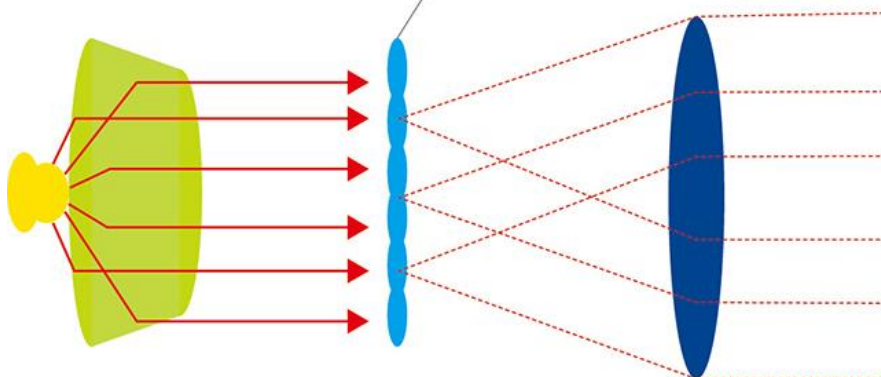
In order to provide you a better operating experience, the A12.0921 body adopts a smooth curve design, eliminating all sharp edges; the frame is hollowed out, increasing the position of handles for easy handling; the "bell" appearance design is stable, compact and beautiful, and the charging adapter is built-in, saving laboratory space.



Large interpapillary distance adjustment range brings professional observation experience

30°inclined, Gemel viewing head, interpapillary distance 47mm-75mm, which can meet the needs of more people. Professional high eye point, wide field plan eyepiece can effectively correct the distortion and color ring of the field of view edge. Strong structural design can effectively prevent students from disassembling eyepieces and avoid the phenomenon of lens refitting, damage and stain after students use them.

Compound Eye Illumination System, Lighting Ideal Light Path



A12.0921 innovatively adopts the compound eye illumination system to improve the contrast rate and effectively improve the illumination uniformity of the specimen surface. The brightness of the entire field of view is uniform. Even at the edge of the field of view, uniform and bright background brightness can be achieved under any magnification. Soft light, not harsh, not only the imaging effect is more ideal, but also can reduce the sense off fatigue, improve the observation experience.

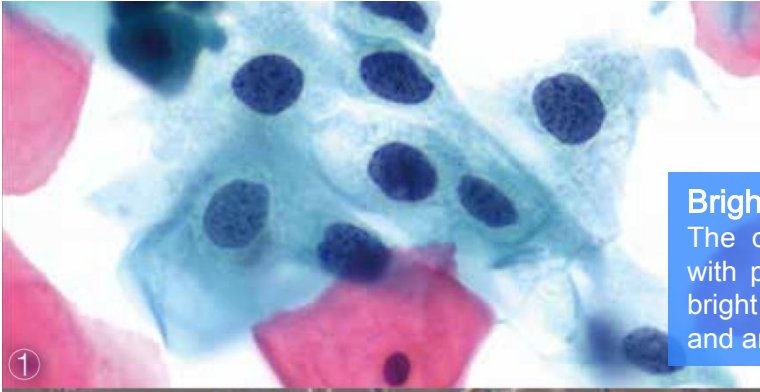
LED light source is environment-friendly. Compared with halogen lamps, it consumes less energy and provides about 100,000 hours of sustainable lighting.



Model	Magnification	N.A. (mm)	WD (mm)	Coverslip Thickness (mm)	Immersion Liquid	Spring
PLAN Infinity Plan Achromatic Objective Series	4x	0.10	11.9	/	/	/
	10x	0.25	12.1	/	/	/
	20x	0.40	1.56	0.17	/	/
	40x	0.65	0.36	0.17	/	Yes
	60x	0.85	0.3	0.17	/	Yes
	100x	1.25	0.21	0.17	Oil	Yes
PLAN-PH2 Infinity Plan Positive Phase Contrast Objective Series	10x	0.25	12.1	/	/	/
	20x	0.40	1.56	0.17	/	/
	40x	0.65	0.36	0.17	/	Yes
	100x	1.25	0.21	0.17	Oil	Yes



Various optional accessories, easy to achieve observation methods of bright field, phase contrast, simple polarization, dark field and others.



Bright Field Observation

The compound eye illumination system is equipped with professional plan achromatic objectives and has bright imaging. It can be used to observe cell structures and analyze plant slices.



Phase Contrast Observation

It is applicable to observe the specimens with high transparency, such as cells, bacteria and other small, transparent objects in biological specimens.



Simple Polarization Observation

It can judge substances with birefringence characteristic such as animals, plant cells and humoral crystals.



Dark Field Observation

There is no need to replace the special dark field condenser, as long as the dark field accessories are inserted into the condenser and the diaphragm is switched, the dark field lighting can be realized.

- ① Endometrial Carcinoma 40x Bright Field
- ② Adherent Cells 10x Phase Contrast
- ③ Pine Needles 10x Polarization
- ④ Sodium Glutamate Crystal 10x Dark Field

Product Details



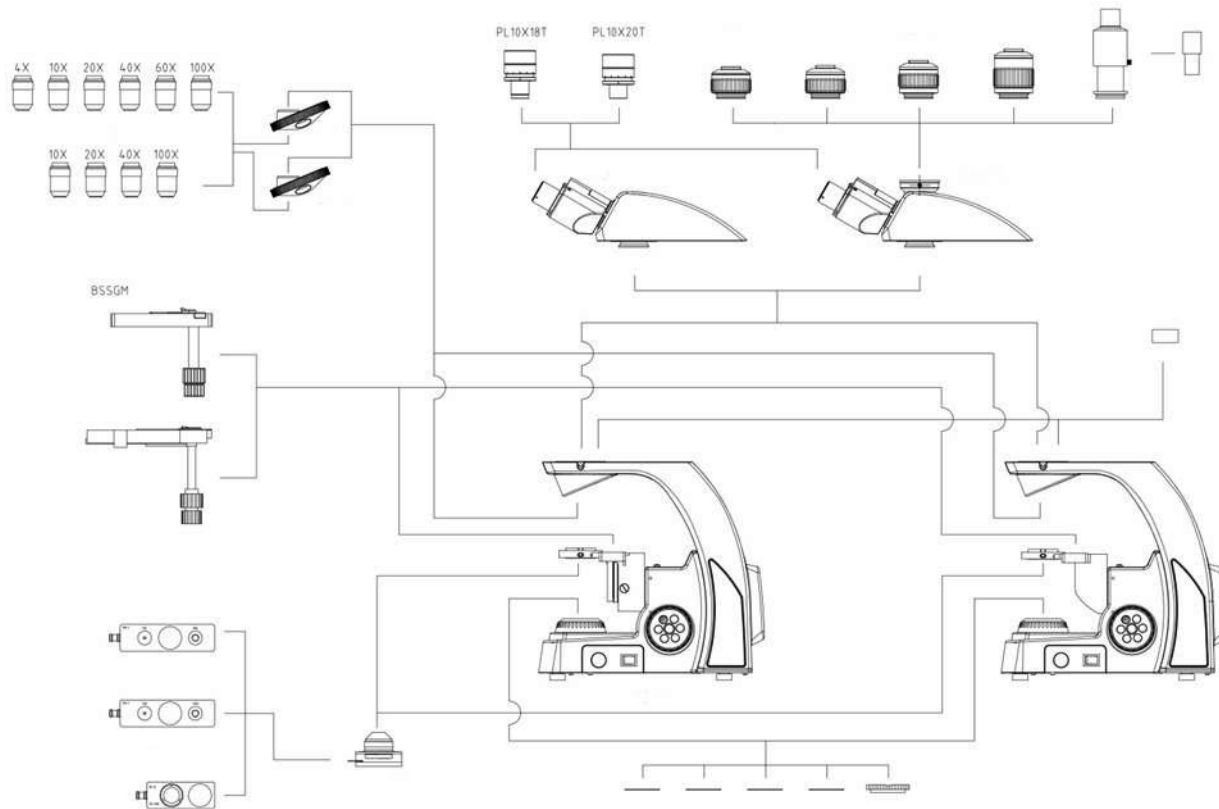
Continuous Adjustable Light Intensity, Easy to Operate



Power Wire Easy to Store

A12.0921 has a storage box on the back, which makes full use of the built-in space of the body and can be used to store the power cord conveniently. Designed to make your desktop look clean and tidy.

Product Diagram



Product Specification

A12.0921		B	T
Optical system	Infinity Color Corrected Optical System	●	●
Viewing Head	30° Inclined, Gemel Binocular Head, Interpupillary Distance 47mm-75mm.	●	
	30°Inclined,Gemel Trinocular Viewing Head,Diapter Range: 47~75mm, Splitting Ratio R:T= 8.2		●
Eyepiece	High Eye Point Wide Field Plan Eyepiece PL10x/20mm, Diopter Adjustable	●	●
	High Eye Point Wide Field Plan Eyepiece PL 10x/18mm, With Diopter Adjustable		
Nosepiece	Reversed Quadruple Nosepiece	●	●
	Reversed Quintuple Nosepiece	○	○
Objective	Plan Achromatic Objective 4x/0.10, WD=11.9mm	●	●
	Plan Achromatic Objective 10x/0.25, WD=12.1mm	●	●
	Plan Achromatic Objective 40x/0.65, WD=0.36mm	●	●
	Plan Achromatic Objective 100x/1.25, WD=0.18mm	●	●
Focusing Mechanism	Low Position Coaxial Focusing Mechanism, Coarse Range: 25mm, Fine Precision: 0.002mm, With Tension Adjustment And Upper Limit	●	●
Working Stage	150mmx162mm Double Layer Stage, Moving Range:76mm-50mm, precision 0.1mm (X-Axis Single Track Transmission)	●	●
	150mmx140mm Double Layer Stage, Moving Range:76mm-50mm, Precision 0.1mm (Triangular Guide Rail)		○
Illumination	N.A.1.25 Compound Eye Illumination Condenser Group (With Plug-in Phase Contrast And Dark Field Accessories' Interface), Condenser Preset Center, Optional Lifting Function, Adaptive 100V-240V Switching Power Supply, Single High Brightness 3W LED (Cold/Warm Color Optional, Cold Color Temperature 4750K-5500K, Warm Color Temperature 2850K-3250K) (Preset Center), Light Intensity Can Be Continuously Adjusted	●	●
Camera Adapter	0.35x/0.5x/0.65x/1x C-Mount Adapter, Focusing Adjustable		○

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