

Biological Microscope

JBM-EX21



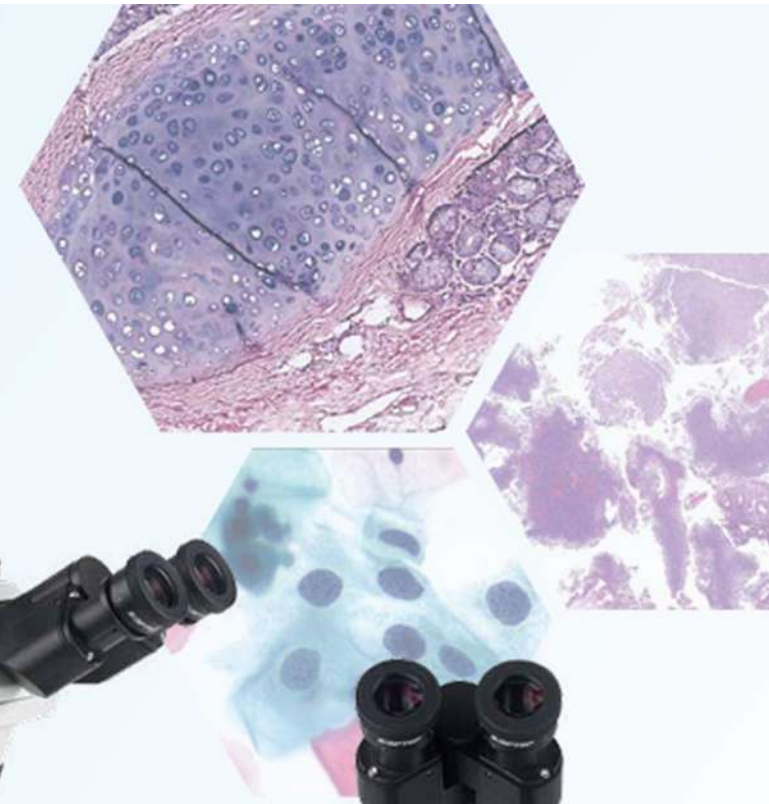
EX21

Compound Eye Illumination System,
lighting Ideal Light path

JBM-EX21 is a high quality biological microscope, which is an ideal choice for basic research and teaching experiments.

With infinity color correction optical system and excellent compound eye illumination system, EX21 can get uniform illumination, clear and bright images at any magnification. User-friendly design, simple and convenient operation, even students can easily master.

Similarly, same as all JB microscopes, EX21 maintains excellent reliability and durability, and is suitable for high-intensity use in the education market.



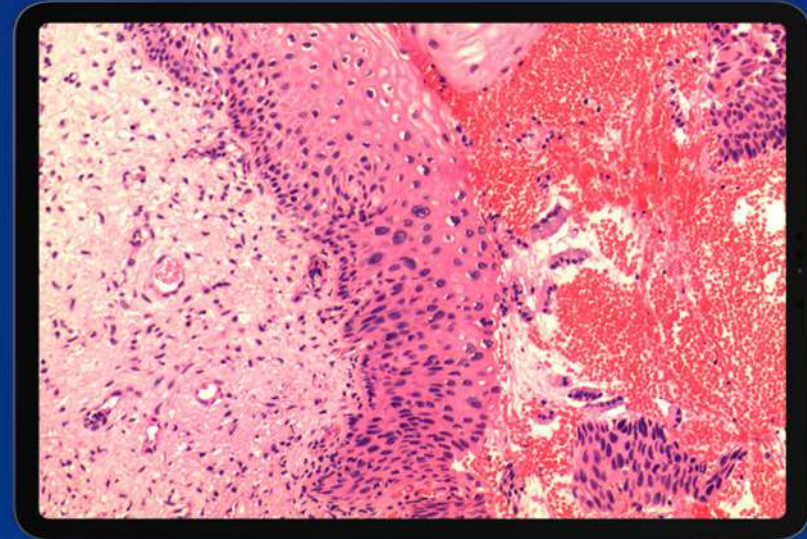


Professional Observation Experience

The 30° inclined observation tube features a pupil distance adjustment range of 47mm to 75mm, accommodating various users. The OIPN series flat-field objectives enhance contrast and correct chromatic aberrations, providing clear, high-contrast images across the entire field of view.

Full HD Images

The digital model includes a 20-megapixel chip for clear full HD dynamic and static images, ensuring realistic color reproduction and a lag-free observation experience.

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Continuous Adjustable Light Intensity, Easy to Operate

The side of the frame is equipped with a dimming knob, which can easily adjust the illumination brightness by gently rotating.

Continuous adjustable light intensity can effectively overcome the brightness jump phenomenon in traditional microscopes, and avoid the dizziness caused by instantaneous strong light.



Power Wire Easy to Store

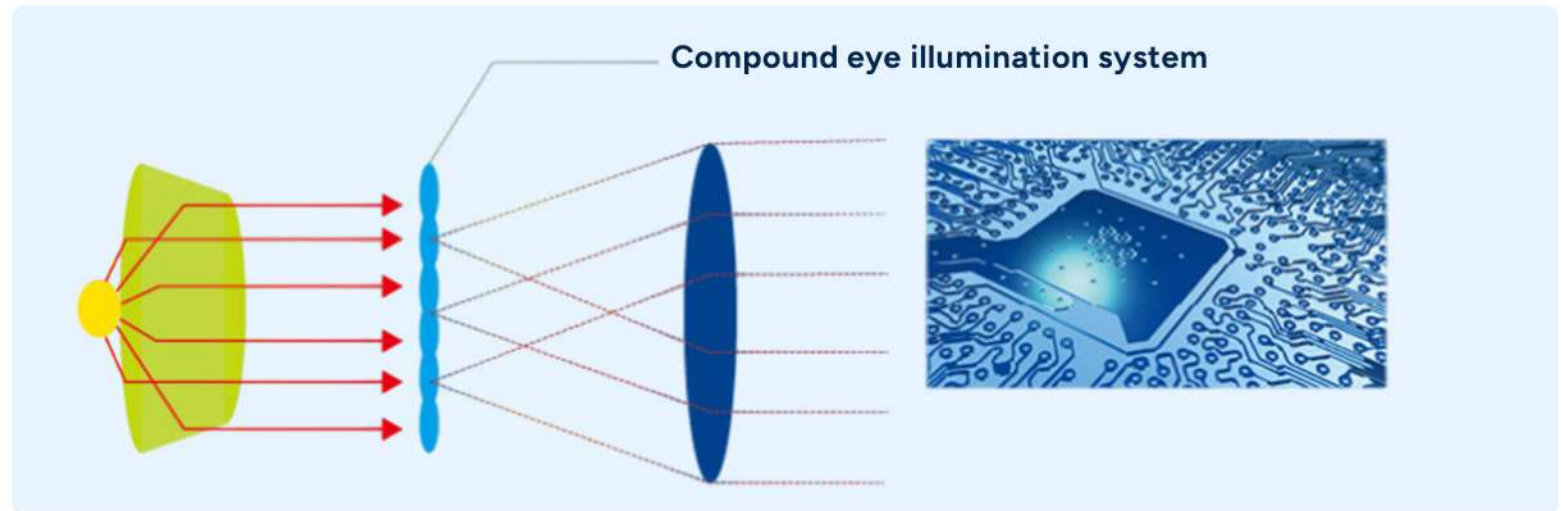
EX21 has a storage box on the back, which makes full use of the built-in space of the body and can be used to store the power cord conveniently. SOPTOP is designed to make your desktop look clean and tidy



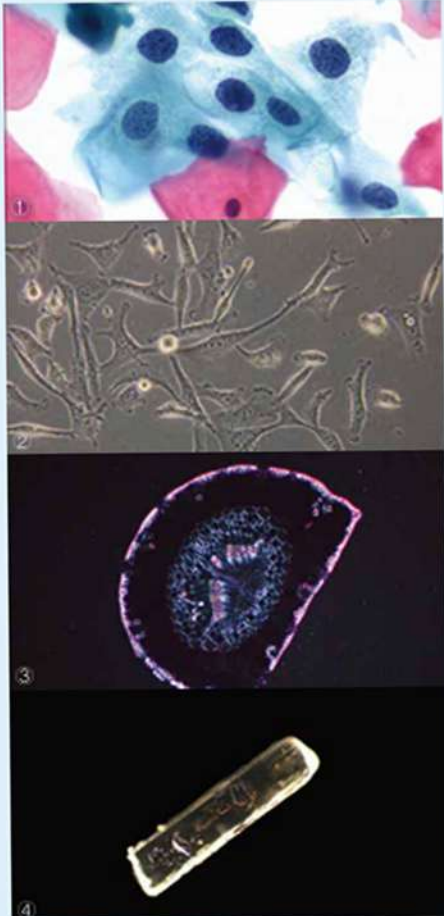
Compound Eye Illumination System, Lighting Ideal Light Path

EX21 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 of 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.



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

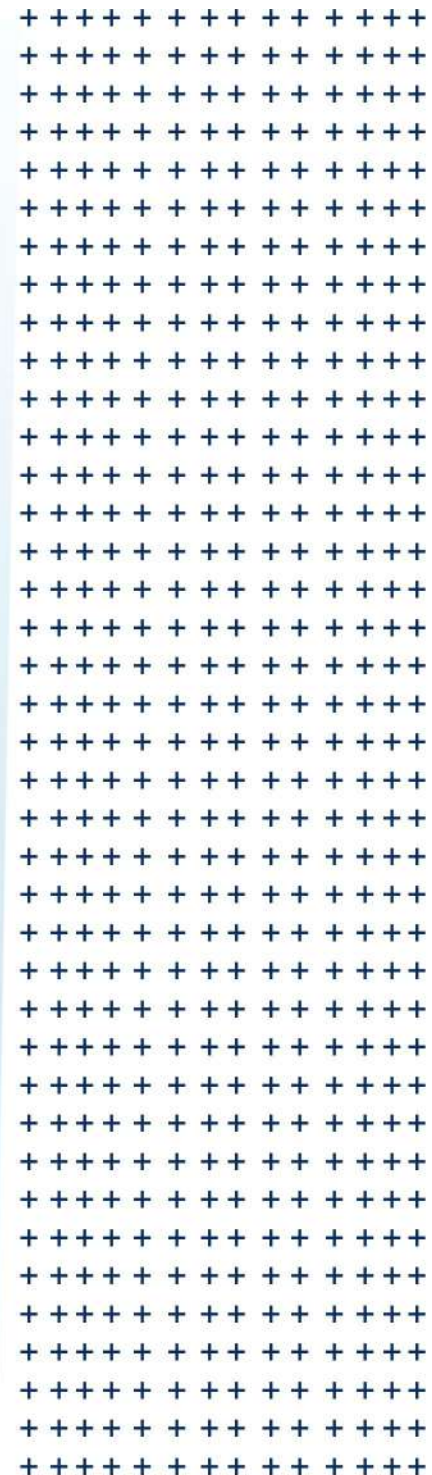
It is applicable to observe the specimens with high transparency, such as cells, bacteria and other small, transparent objects in biological specimens

Simple Polarization Observation

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

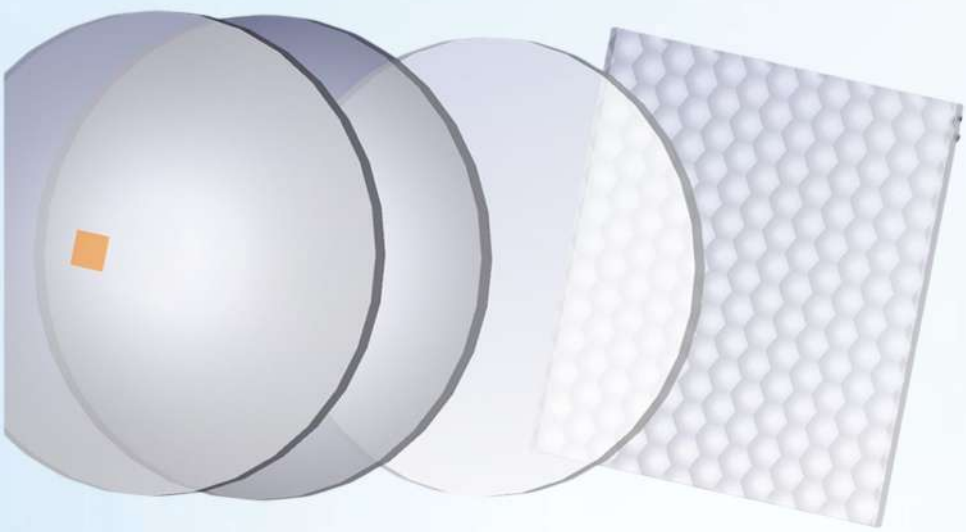
Dark Field Observation

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.



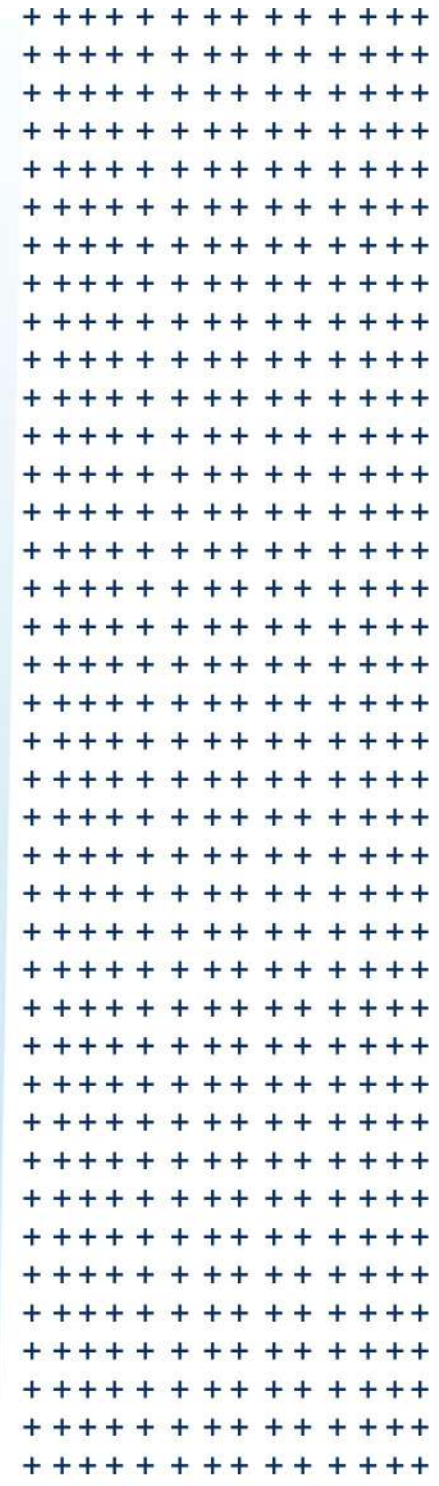
User-friendly Design to Increase Comfort and Safety

In order to provide you a better operating experience, the EX21 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.



Compound Eye Illumination System

The EX21 features a compound eye illumination system that enhances contrast and ensures even illumination across the entire field of view. Regardless of magnification , the background brightness remains consistent, reducing eye strain and improving the overall observation experience.



Product Specifications

BRAND	JB MICROSCOPE
Model Number	JBM-EX21
Viewing Head	30 degree inclined Binocular head, with locking mechanism for eyepieces, right diopter adjustment:±; interpupillary distance range:50-75mm
Eyepiece	Wide field plan eyepiece PL10X/18mm, with reticle, diopter adjustable
Objective	Plan achromatic objectives 4X/10X/40X/100X (Oil).
Stage	150mm X 140mm double layer composite mechanical moving stage, double slice clamps, moving range : 76mmx 50mm; accuracy:0.1mm (triangular guide rail).
Nosepiece	Quadruple nosepiece
Focusing Mechanism	Low position co-axial focusing mechanism , coarse range : 25mm, fine precision: 0.002mm with tension adjustment and upper limit.
Single – hand LED Fluorescent reflection illumination system	B4 TB-LED fluorescent module for TB, with intensity adjust knob, BF/FL switching knob. central wavelength455nm.
Illumination System	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 Adaptor	0.5x C-mount adaptor, focusing adjustable.

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