

OPTIK 20

BIOLOGICAL MICROSCOPE



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According to the daily demands of teaching, OPTIK20 biological microscope has entirely new improved based on the traditional one. With the infinite plan achromatic objective, OPTIK20 biological microscope provide high-resolution image. And the image is flat and sharp.

All the parts such as eyepiece, condensor, lifting platform have security locks and safety limit designs. This designs ensure the microscope more stable, solid, maintain excellent performance for long term.

Under different slides, OPTIK20 biological microscope can fulfill various microscopic examinations such as brightfield, darkfield, simple phase contrast, simple polarizing. So OPTIK20 biological microscope has highly performance-price ratio.





VARIETY OF ILLUMINATOR METHODS AVAILABLE

Single 3W high power LED illuminator, close to sunlight. Under bright field observation, the background is bright and white, no need filter. So it is the best choice for brightfield observation and CCD photograph. The light source is cold and stable. It will not have temperature difference even working for long time and longer life with lower power consumption.

Philips 6V20W Halogen illuminator.

Block-style mirror, If no power supply, it can collect natural light.



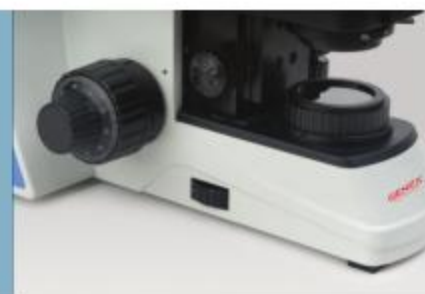
LABORATORY LEVEL INFINITY OPTICAL SYSTEM

In the teaching microscope, We used the laboratory-level infinity optical system and the real professional infinity plan achromatic objective. High power objective used the semi-apochromatic objective design theory to provide a high resolution, high definition, high contrast microscopic image. Advanced professional plan eyepiece design, effective correction of the distortion field and color ring edge. Firm's structural design, can effectively prevent the eyepiece demolition by students, to avoid installation and damaged and dirty lens.

All kinds of micrometer and reticle can be installed.

SENSITIVE DIMMING SYSTEM

For the new dimming system, adjusting the lighting close to a straight line from low to high brightness dimming. It keeps sensitive and effective and overcome the jump phenomenon occurs when traditional microscope dimming the brightness and avoid the glare instantaneous cause dizziness. The new design is also conducive to the operation of the students and protection of dimming knob will not be damaged.



THE SECURITY DESIGN OF PREVENTING FAULTY OPERATION

There are special locking screws for eyepieces to prevent people will remove the eyepiece or causing accidental damage of falling out of the eyepiece when got dust cover. Condenser using a dedicated set screws fixed, undesirable, also to avoid damage.

Focus limit has the mechanical screws, and default before sale, which ensures accurate focus of the samples, but also protect the slide will not be damaged.



Stable, compact body design

T-shaped base and classic curve flank created OPTIK20 excellent stability and rigid compact design. The overall shape compact and beautiful and save lab space.

Safely handle design

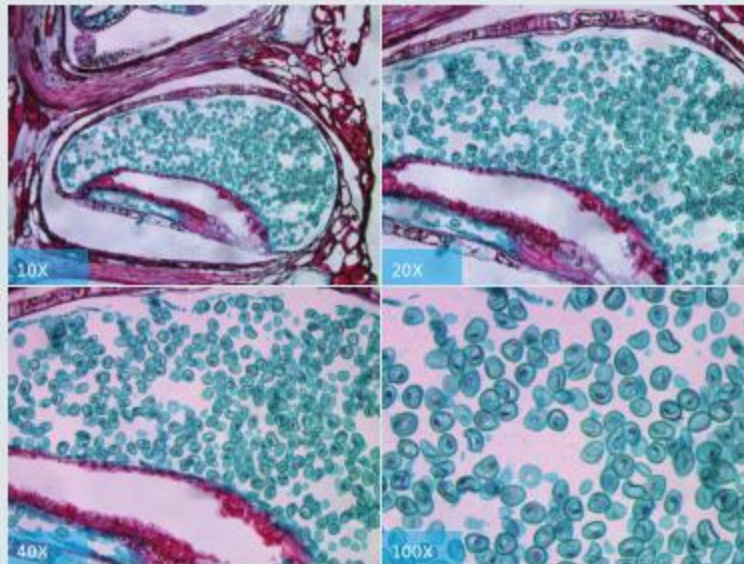
The handle on the back of main body guarantee it safety when move the microscope.



MALE CESTODE STROBILA BRIGHTFIELD

BRIGHTFIELD OBSERVATION

From low magnification to high, Koehler illumination system and Infinity achromatic optics system ensure the sharp and bright, high-quality image.



SIMPLY POLARIZING OBSERVATION

Using simply polarizing device can detecting the birefringence material such as animal cells, plant cells, body fluids crystalization. Just putting polarizer on collector and inserting analyzer into the viewing tube socket then we can fulfill simply polarizing observation handily.

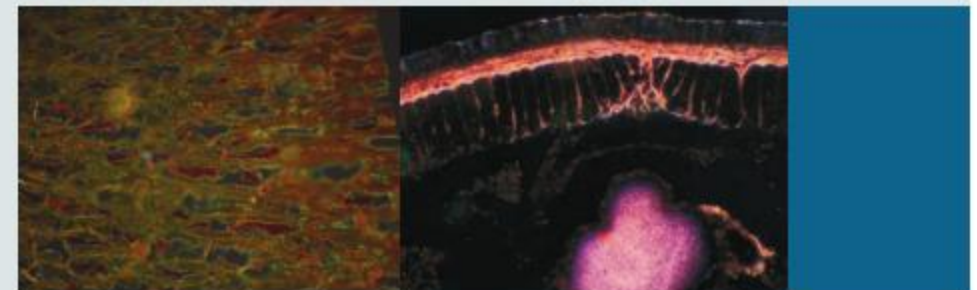


Pine needles brightfield

Pine needles orthogonal polarized

DARKFIELD OBSERVATION

Insert the darkfield spill into condenser socket and pull darkfield diaphragm in and so on, then can fulfill simply darkfield observation. You can observe tozoon, bacterial flagellum, leptospira in darkfield at any times between 4X-40X without special darkfield condenser.



Cell plasmodesmata 20x darkfield

Earthworm cross section 10x darkfield

PHASE CONTRAST OBSERVATION

To insert a simple phase contrast flapper into the slot of condenser, then depending on the phase contrast objective, push the matching phase contrast ring into the optical path, phase contrast can be observed, simple and practical, suitable for phase contrast observation of some basic occasions. Simple flapper into SL1 (adaptation 10X/40X) and SL2 (adaptation 20X/100X).



Ullium pollen 40x phase

Diatom 20x phase