



EX20

Biological Microscope
For education and lab

EXCELLENT PERFORMANCE · SIMPLE OPERATION · STABILIZED STRUCTURE

 NINGBO SUNNY INSTRUMENTS CO.,LTD.
www.sunnyoptical.com

Add 66-68 Shunyu Rd., Yuyao, Zhejiang, 315400 China
Tel 0086-574-62530024
Fax 0086-574-62530066
E-mail sales@sunnyoptical.com



As technical improvement, manufacturer has right to make renovation in designing without notice

SUNNY INSTRUMENTS
have passed the certificate:
ISO 9001
ISO 14001
ISO 13485

شرکت ابزار طب
وارد کننده تجهیزات
آزمایشگاهی - دقیقانه - علمی
تاسیس ۱۳۶۳



تهران، خیابان مطهری، خیابان فجر، پلاک 38

021-88832100
021-88321727
021-88321728


 www.abzarteb.com
 [abzar.teb](https://www.instagram.com/abzar.teb)

SUNNY INSTRUMENTS
EX Series

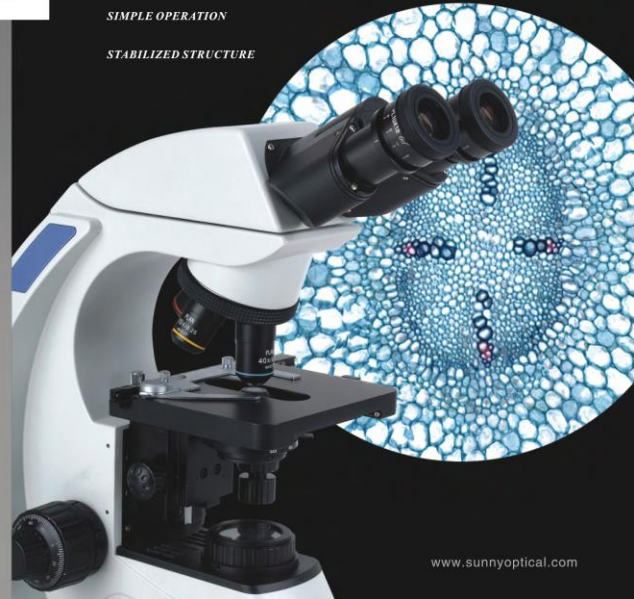
EX20

Biological Microscope
For education and lab

EXCELLENT PERFORMANCE

SIMPLE OPERATION

STABILIZED STRUCTURE



www.sunnyoptical.com



شرکت ابزار طب
تاسیس ۱۳۶۳

تهران، خدایان مطهری، خدایان فجر، پلاک 38

021-88832100

021-88321727

021-88321728

www.abzarteb.com

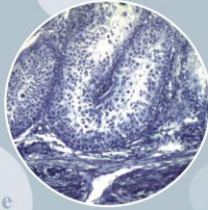
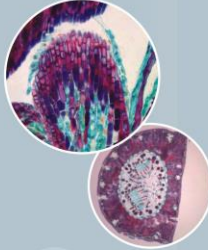
abzar.teb

EX20 Biological Microscope

According to the daily demands of teaching, EX 20 biological microscope has entirely new improved based on the traditional one. With the infinite plan achromatic objective, EX 20 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, EX20 biological microscope can fulfill various microscopic examinations such as brightfield, darkfield, simple phase contrast, simple polarizing. So EX20 biological microscope has highly performance-price ratio.



EX20 Biological Microscope



Adhering to the EX series of stable, suitable, safe and efficient principle, and the features used for teaching, EX 20 has innovative design for adaptability and stability and makes observation simpler.

EX20 Biological Microscope
 SUNNY INSTRUMENTS CO., LTD. | 1343



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 has temperature difference even working for long time and longer life with lower power consumption
 Philips 6V20W Halogen illuminator;
 Black-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 EX Series classic curve flank created EX20 excellent stability and rigid compact design. The overall shape compact and beautiful and save lab space.



Safely handle design

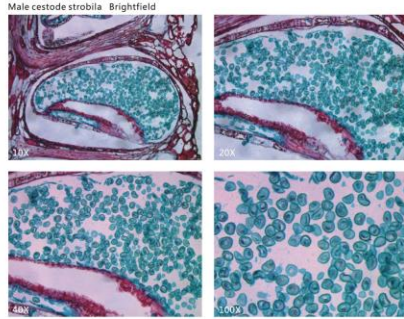
The handle on the back of main body guarantee it safely when move the microscope.

شرکت ابزار طب
 روز چهارشنبه
 ۱۳۴۳
 تهران، خیابان مسکونی، خیابان نصر، پلاک ۳۸
 021-8832100
 021-8832177
 021-88321728
 www.abzarlab.com
 abzarlab

According to conventional teaching and experimental observation of the need, EX20 integrated bright field, simple polarizing, simple dark field, simple phase contrast four major functions, highly performance-price ratio.

Brightfield observation

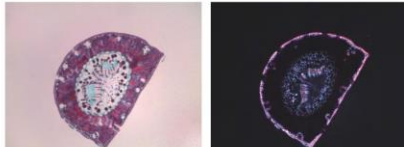
From low magnification to high, Koehler illumination system and Infinity achromatic optics system ensure the sharp and bright, high-quality image.



Male cestode strobila Brightfield

Simply polarizing observation

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

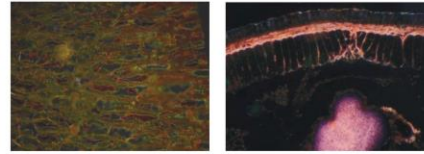


Pine needles brightfield

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.

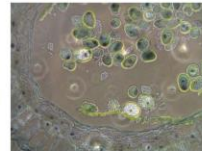


Cell plasmodesmata 20x darkfield

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).



Liliun pollen 40x phase



Diatom 20x phase



تهران، خدایان مطهری، خدایان فجر، پلاک 38

021-8832100
021-88321727
021-88321728
www.abzar.teb.com
abzar.teb

Trinocular Head

Trinocular head can connect with many kinds of video & photo accessories, output the image to monitor or computer, and do image analysis, processing, preservation and transmission



Field Diaphragm Accessories

Standard specification is fixed Koehler illuminator. According to actual requirement, can select variable field diaphragm. Rotate into microscope condenser, very easy to install.



Video & Photo Accessories



شرکت ابزار طب
پارانشدهیسترات
تاسیس ۱۳۹۳
تهران، خادان مسوری، خادان فجر، پلاک ۳۸
021-88832100
021-88321727
021-88321728
www.abzarteb.com
abzar.teb

Through special C-mount and relay mirror, mount the digital camera on the microscope, take pictures quickly and acquire image.

Digital Microscope

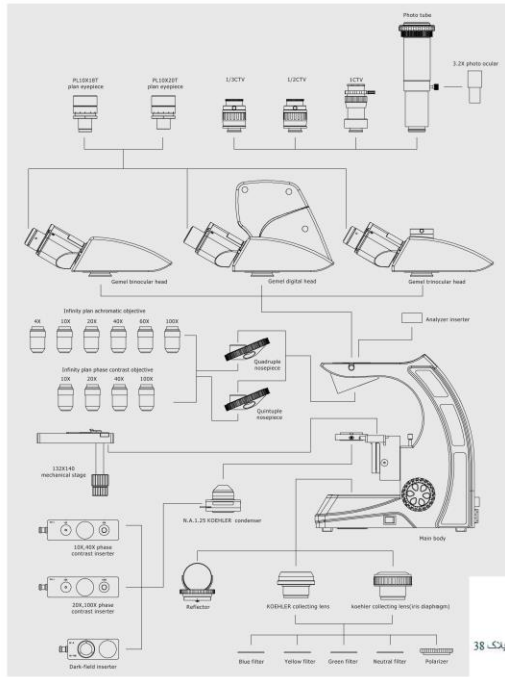


DMEX20 digital microscope, adopt 3 mega-pixels digital CMOS chip, 1/2" target surface. Progressive scan, USB2.0 output, high transmission speed and Signal-to-Noise ratio, can do the real-time image capture. PhotoLib professional image processing software, covering all conventional image processing functions, and advanced particle automatically identify and quantitative analysis capabilities, to fully meet the requirements of your professional image analysis

Various filters for optional



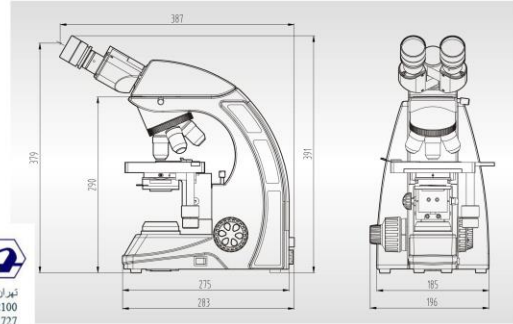
When under phase contrast observation, you can choose the green filter or IF50 phase contrast interference filter to get the best observation effect
When using halogen illumination, choose blue filter or LBD filter can help to get best image contrast
According to the actual requirement, you can choose different filters to adjust the color of background to get the required result.



EX20 Configuration Chart :

Model	EX20
Optical system	Infinity color corrected optical system
Eyepiece	PL10X/18T, FN18mm with adjustable diopter PL18X/20T, FN20mm with adjustable diopter
Objective	OIP Infinity Plan Achromatic objectives
Viewing head	30° inclined Gemel Binocular Head 30° inclined Gemel Trinocular Head, Light splitting ratio R:T=8:2 30° inclined Gemel Digital Head (3 mega. pixel)
Nosepiece	Reversed quadruple nosepiece Reversed quintuple nosepiece
Stage	140X132mm mechanical stage, move range 76X50mm
Condenser	N.A.1.25 Koehler illuminatory condenser with socket for phase contrast and darkfield accessories
Focus	Coaxial focus system with tension adjustable, coarse 25mm per rotation, with upper limit and tightness adjustment.
Illuminator	100V~240V flucturate of voltage, Single high brightness 3W LED with continuous intensity control 100V~240V flucturate of voltage, Philips 6V/20W halogen bulb with continuous intensity control

EX20 Dimension Chart: mm



شرکت ابزار طب
 واحد تولید تجهیزات پزشکی
 راهپایان صنعتی خاندان مجری - پلاک 38
 تهران، جادهان مطهری، خاندان مجری - پلاک 38
 تاسیس 1394
 021-88321100
 021-88321727
 021-88321728
 www.abzarteb.com
 abzar.teb