ALMICRO®

Research Microscopes
Scientific Instruments

ALMICRO
50
years
EXCELLENCE & SERVICE

ADVANCED RESEARCH MICROSCOPE

EXL

**Innovative design.
Quality, Comfort
and Ease of Use**

Innovative, efficient, and versatile – delivering exceptional imaging and a seamless user experience.

Equipped with an ECO energy-saving mode, the EXL features a front LCD display showing brightness, color temperature, and magnification— helping users monitor status and boost efficiency.

The ECO function offers customizable hibernation (5–60 mins) with manual override for enhanced control and energy savings.

Super endurance with Type-C support use portable batteries for power anytime, anywhere.

Built-in USB port also lets you charge your phone or tablet on the go.

Highly stable, low-radiation, and ultra-long-life LED fluorescence modules with flexible control : simplifying microscopy for safer, more efficient, and professional diagnostics.

User-friendly design for comfort and safety—EXL features a secure handle, concealed locks, and an ergonomic low-position focus system. Rear storage keeps accessories clean and enhances portability.

Super-large rackless ceramic stage with a smooth, arc shaped design. Features a double-layer mechanical build, high-hardness ceramic coating for corrosion resistance, and damping clips for holding two slides—ideal for inspection and comparison.

Multifunctional digital camera module with USB 3.0 and Wi-Fi output for high-quality, progressive scanning. Supports remote full-resolution capture, multi-device viewing, and features a contact-type power supply for added convenience.
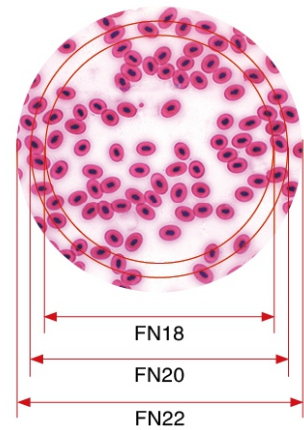
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Excellent Optical performance and practical design
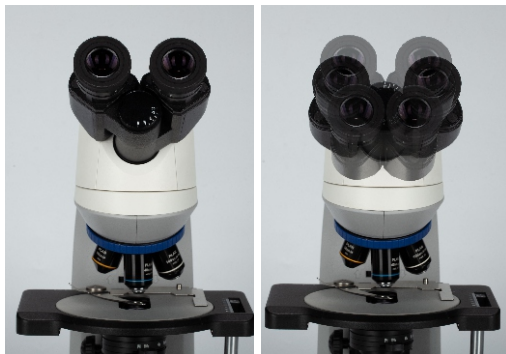

Outstanding Infinity color corrected optical system

Infinity color corrected system, professional plan achromatic objectives and cutting-edge microscopy technology, provide microscopic images with high resolution, high definition and high contrast.

FN18
FN20
FN22

22mm wide-field

• The EXL biological microscope can achieve a wide field of view range of 22mm under 10X eyepiece, which is more efficient and perfect for observation.
• Professional high eye point and wide field plan eyepiece can effectively correct edge distortion and chromatic aberration.

Rotatable viewing tube

EXL viewing tube with gemel group 360º rotation function, adjustable pupil distance, eye point height, for different height of the operator to provide a more flexible and comfortable experience.

Super endurance function

The body is equipped with a Type-c interface, which allows the microscope to use a portable battery as a power source. The microscope thus frees itself from dependence on power outlets, enabling easy use outdoors or in power outages. The body comes with a standard USB port, that allows the microscope to charge a phone or tablet.

Rotatable viewing tube

Double-layer mechanical stage, large arc shape, no angular design; the stage surface adopts ceramic paint process, high hardness, corrosion resistance; Damping-type double clips can be placed two slices at the same time, for inspection and comparative analysis.

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Intelligent management of light intensity and ergonomic design

With ECO energy-saving working mode

Build-in ECO function, no operation for 30 minutes, the system will automatically turn off and into the standby mode. Users can automatically wake up the light source by touching the dimming knob.

The EXL has a front LCD display, which displays the current lighting brightness, color temperature and magnification, so that the user can Intuitively judge the working status and improve working efficiency.

At the same time, the EXL has ECO function which gives a prompt whether to hibernate. Users can manually cancel, saving energy and improving user experience.

The hibernation waiting time is 5-60 minutes.

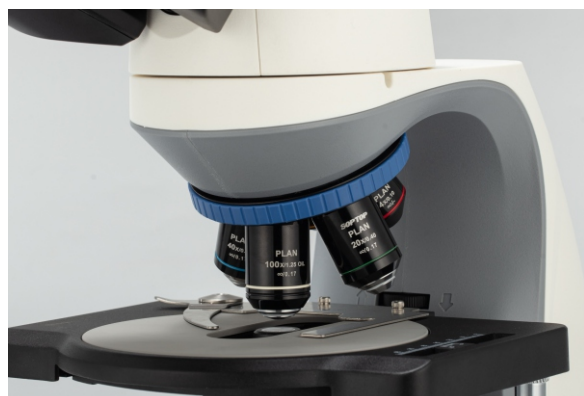|			
EC0:15min 100% OBJ:100X CCT:4000K	EC0:15min 100% OBJ:100X CCT:4000K	EC0:15min 100% OBJ:100X CCT:4000K	(coffee cup)
ECO duration, lighting brightness, objective magnification, and color temperature are displayed on the working screen.	Long press the dimming hand wheel to adjust the color temperature interface 3000K- 7000K.	Short press the dimmer hand wheel to enter ECO mode. You can set the ECO duration.	In standby mode, "Coffee cup" will appear one minute ahead of time to remind you of standby state.

Brightness memory function

EXL can be equipped with code nosepiece, able to remember the illumination brightness of each objective. Users can freely adjust the light source brightness of each objective and the system automatically remembers, not only to improve efficiency, but also to reduce visual fatigue.
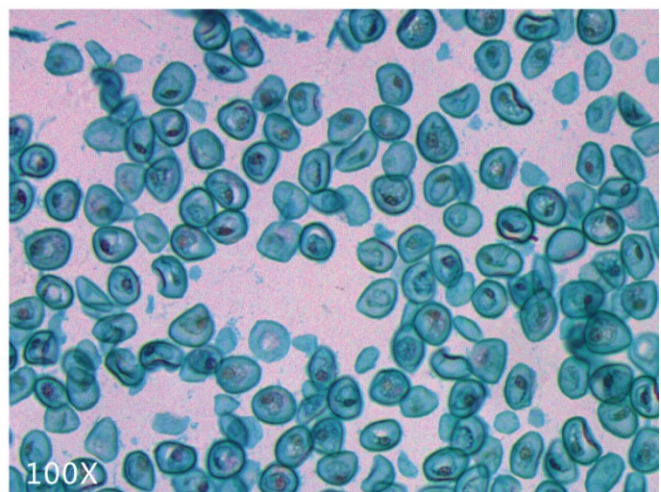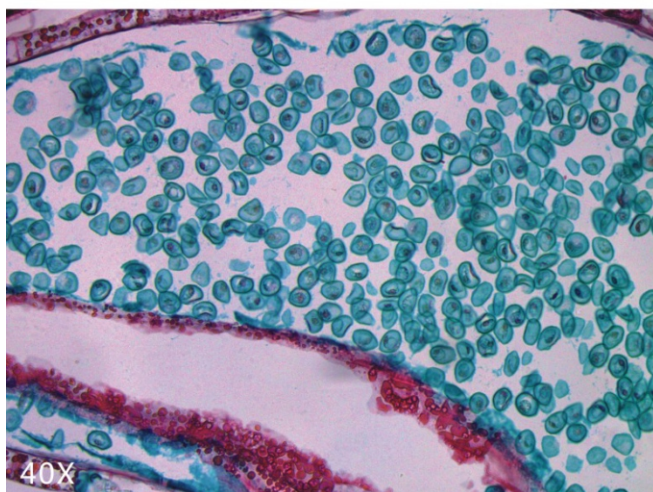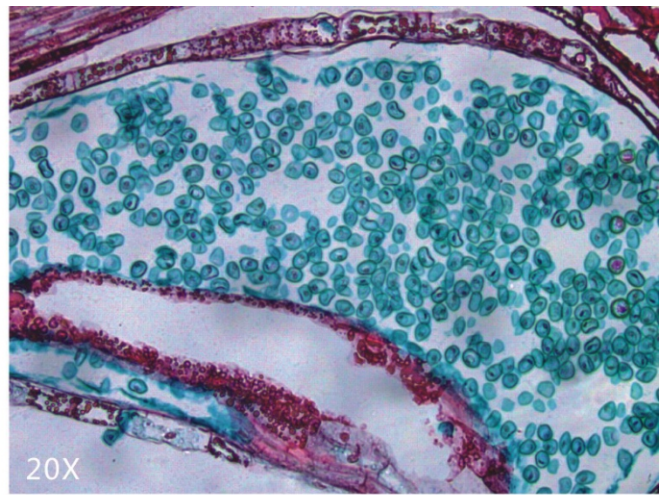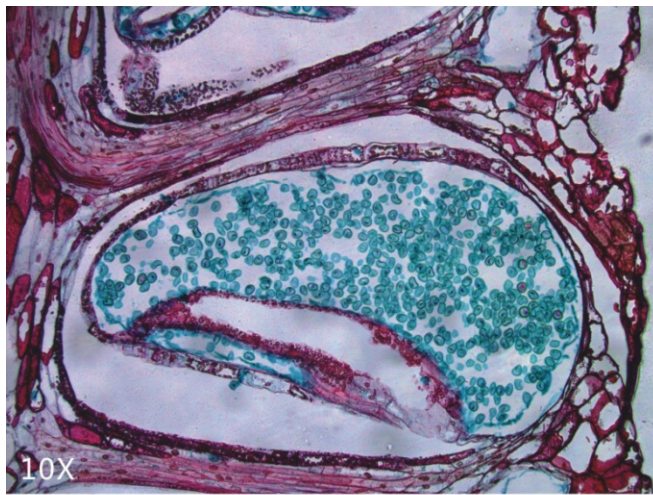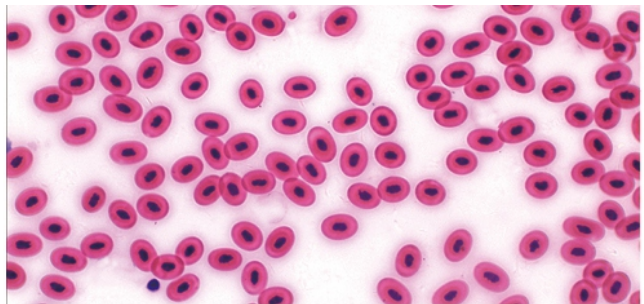
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User-friendly design increases comfort and safety

• The EXL is equipped with a secure handle for moving.

• Fully concealed locking design eliminates all sharp edges.

• Low hand coarse and fine coaxial focus system is ergonomically designed to give the user maximum comfort.

• There is a storage device at the back of the body to ensure the cleanliness, , saving storage space and improving portability.

BRIGHT FIELD OBSERVATION

The professional plan achromatic objective, with the use of the Kohler illumination system, adjusts the image to the best condition by adjusting the aperture diaphragm and the field diaphragm. High-resolution, high-contrast microscopic images can be obtained whether at low or high magnification.

10X

20X

40X

100X

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Optical system
Infinity color corrected optical system

Viewing head
30° gemel trinocular tube , 360° rotatable, spectroscopical ratio R:T=50:50 or 80:20, adjustable eye-point height can adapt to operators of different heights.

Eyepiece
Wide field plan eyepiece PL10X/22mm, with reticle or grid plate, diopter adjustable.

Objective
Infinity plan achromatic objective （4X，10X，40X，60X，100X）

Nosepiece
Quintuple nosepiece (Brightness memory)

Stage
Double layers mechanical ceramic paint stage, precision: 0.1mm [X-axis rackless]; Clips for double sliders, movin Clips for double sliders, moving range 78mm×51mm.

Condenser
N.A.1.25 Koehler illuminator condenser（with socket for phase contrast and dark field accessories) with aperture diaphragm.

System
100V-240V External transformer, 3W LED with continuous intensity control. Type-c interface allows portable battery as a power source. USB port supports the microscope to charge a phone or tablet.   With ECO function. The body can supply power to fluorescent illuminator and Wi-Fi camera modul

Optional Accessories
Frosted glass accessories, Dark-field accessories, phase contrast accessories, color filter, telescope (30) , high precision type/general type micrometer with 0.01mm scale value, LED fluorescent module, Multifunctional digital camera module