

CS-U3500 Series

CatScope

Catalyst Biotech



CS-U3500 is packed with powerful performance, crisp clarity and rugged construction. It's design ensures comfort and dependability for hours of daily use. The narrow front and low controls allow for arms and hands to rest flat on the table, reducing arm and shoulder strain. The rubber feet and wide rear footprint keep the microscope stable and reduce vibration for steady viewing. The built-in cord wrap keeps the lab counter neat, and the handle in the neck makes the Innovation easy to move and store.



Head

The Siedentopf-type head is inclined 30-degrees for a comfortable user posture. It accommodates Interpupillary widths from 48-75mm. Choose either a binocular head for routine use or a trinocular head for mounting any C-mount or eyetube-type camera. The trinocular head comes complete with both C-mount and ocular tubes.

Eyepiece

The 10x/22mm eyepieces are the largest and widest-viewing eyepieces in this microscope class. The physical eye-tube diameter is 30mm, 30% larger than standard 23mm eyepieces, and the field number 22mm allows for a much broader view under each objective power. These eyepieces feature a HIGH FOCAL POINT, meaning that the eyes stay farther away allowing users to keep their eyeglasses on while using the microscope. Additionally, each eyepiece has a built-in +/-5 diopter adjustment for quick corrections for a weak left or right eye.

Nosepiece & Objectives

The multiple ball bearing reverse nosepiece allows for greater access to slides for quick changes. Developed with high-contrast Infinity PLAN objectives, CS-U3500 produces sharp, crisp, flat-field images across the entire field of view. Whether spending hours scanning cytologies or counting differentials, a flat field of view will ensure that the critical cells at the edge of view are just as clear and focused as those cells in the middle. The infinity optical system, is the premium platform for the highest contrast and resolution. Objectives are Anti-fungal, parfocal, parcentric, color-coded.





Rackless Stage

The large (216mm X 150mm), graphite-coated mechanical stage stands up to years of wear and tear. The rackless, belt-drive system allows the stage to operate smoothly, comfortably, and safely by eliminating the left and right projection of the gear track as on traditional microscopes. This stage will accommodate two slides at once, for faster scanning and comparisons. Adjustable friction can be set for light or firm coarse focusing, eliminating stage drift. The range of traverse is 75mm x 55mm. CS-U3500 features a slow-close hydraulic slide finger.



Illumination

The NA 1.25 ABBE condenser is easily aligned within its holder using the two alignment thumbscrews, ensuring a centered field of light. Calibrated indicator marks help the user set the sub-stage iris diaphragm to the perfect numerical aperture to match each objective for the best resolution. The additional Kohler iris on the base can be closed to reduce stray light and improve clarity.

The bright, white, uniform LED illumination maintains constant daylight-color, showing stained specimens in their true vibrant colors. With variable intensity, it is more than bright enough for routine brightfield microscopy and also well suited for applications such as phase contrast and darkfield. The LED bulb lasts approximately 50,000 hours, which could be up to 20 years under normal use. The bulb generates very little heat as opposed to the traditional halogen models, and it uses a tenth of the energy. This will help in saving money both on reduced energy costs as well as bulb replacements.



Technical Specifications of CS-U3500

Optical System	Infinity Color Corrected Optical System
Head	Seidentopf Trinocular Head, Inclined at 30° and 360° rotatable Interpupillary Distance adjustment range: 48 - 75mm Diopter Adjustment: ±5°
Eyepiece	Wide Field eyepiece 10X/22mm
Nosepiece	Quadruple, Backward tilted, Click-stop Revolving mechanism with multiple ball bearing
Objectives	Infinity Plan Achromatic Objectives Anti-fungal, Parfocal, Parcentric, color-coded 4X, 10X, 40X (Spring), 100X (Spring, Oil)
Stage	Double Layer Rackless Mechanical Stage, Double Slide holder Graphite coated surface, Anti-corrosive & Anti-friction Stage size: 216 x 150mm Movement range: 75mm (x-axis) x 55mm (y-axis) controlled with a long right hand stage handle
Condenser	N.A. 1.25 Abbe Condenser with iris diaphragm
Focusing	Coaxial focus system with upper limit and tension adjustment Focusing Adjustment by Rack & Pinion Mechanism. Fine focusing interval 0.001mm Coarse stroke 37.7mm/rotation Fine stroke 0.1mm/rotation Moving Range 24mm
Illumination	Koehler Illumination System External Illumination with 3W LED lamp with center presetting Adjustable intensity
Power supply	100V-240V Universal Power Supply

Options in-lieu of mentioned standard specification:

- » Seidentopf Binocular Head
- » Quintuple Nosepiece

CS-U3500 can be upgraded with the following:

- » Wide Field eyepiece 16x/15mm
- » Wide Field eyepiece 20x/12mm
- » Dark-Field attachment
- » Phase Contrast Attachment
- » Micro-Photography

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer.
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