

CS-U3600 Series

CatScope

Catalyst Biotech



CS-U3600 Series is equipped with sharp, high contrast objectives on a rugged, die-cast aluminum frame designed for years of heavy use. Featuring ergonomic focusing controls, all brass gears and the wide field of view eyepieces. 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 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 47-78mm. 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/18mm eyepieces are the wide-viewing eyepieces in this microscope class allowing a 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 Achromatic / PLAN objectives, CS-U3600 produces sharp & crisp images. across the entire field of view. Objectives are Anti-fungal, parfocal, parcentric, color-coded.





Stage

This stage (140mm X 140mm) 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 50mm. The X-Y movement of the stage is controlled by a handle on the right side of the stage while the vertical movement is regulated by the coarse and fine adjustment knob, which is ergonomically placed.



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 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-U3600

Optical System	Finite Optical System
Head	Seidentopf Trinocular Head, Inclined at 30° and 360° rotatable Interpupillary Distance adjustment range: 47 - 78mm Diopter Adjustment: ±5°
Eyepiece	Wide Field eyepiece 10X/18mm
Nosepiece	Quadruple, Backward tilted, Click-stop Revolving mechanism with multiple ball bearing
Objectives	Achromatic Objectives Anti-fungal, Parfocal, Parcentric, color-coded 4X, 10X, 40X (Spring), 100X (Spring, Oil)
Stage	Double Layer Mechanical Stage, Double Slide holder Stage size: 140 x 140mm Movement range: 75mm (x-axis) x 50mm (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 0.002mm Moving Range 25mm
Illumination	Koehler Illumination LED lamp with center presetting Adjustable intensity
Power supply	100V-240V Universal Power Supply

Options in-lieu of mentioned standard specification:

- » Seidentopf Binocular Head
- » LED Illumination with battery backup
- » ECO Illumination
- » 6V/20W Halogen Lamp

CS-U3600 can be upgraded with the following:

- » Wide Field eyepiece 16x/13mm
- » Dark-Field attachment (Dry / Oil)
- » Phase Contrast Attachment
- » Simple Polarization
- » LED Fluorescence
- » Micro-Photography

CS-U3700

Infinity Colour Corrected Optical System
Wide Field Eye-Piece 10x/20mm
Infinity Plan Achromatic Objectives
Rackless Large Stage (150 x 139mm)
Koehler Illumination



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