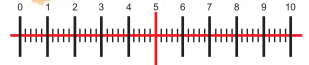


Catalyst Biotech



CS-U8000F Series

CatScope



Advanced High-Quality Optical Technology... with Basic Human Touch!!



Model : CS-U8000F

CatScope CS-U8000F is an upright fluorescence microscope with transmitted and reflected illumination, a six filter turret, infinity-corrected optical system with, wide field of view, big operating mechanical stage and Koehler diascope and episcopic illumination. CS-U8000F is a perfect modular microscope, which can be upgraded anytime in future for different types of microscopy, viz., phase contrast, simple polarization, dark-field, micro-photography, etc., thus making it an ideal microscope for biological applications. Surface uses special spray powder, protective, decorative, water and solvent resistant. Ergonomic design of the microscope makes the operation easy and comfortable for the user.



Comfortable observation with compensation free trinocular head Inclined at 30°, suitable for observer with wide interpupillary range of 48-75mm. Larger viewing area with extra wide field eyepiece EW10×/ 22. Focus control with diopter adjustable. Optionally, an ergonomically tiltable 5-35° head is also available.



Nosepiece & Stage

Large operating space with backward quintuple nosepiece. The quintuple nosepiece with centerable ports can hold five Infinity plan-achromatic objective lenses, which can be selected depending on the application. Perfect images with infinite plan achromatic objective. Rectangular double layer mechanical stage of 185×142mm and moving range of 75×55mm, comfortable operation with low position adjustable knobs.

Condenser

N.A. 0.9/0.25 Strain-free swing out achromatic condenser with center adjustable provides ample uniform light and clear image for different magnification observations.

Focus Adjustment

Low position focusing knob is ergonomically placed for comfortable operation. Upper limit and tension adjustable functions is helpful to protect damage to slides and objective lens.

Koehler illumination system

The center of the filament is preset in the transmitted lamp house with 6V/30W (24V/100W available for optional) halogen bulb which presents a bright and uniform field under every magnification. Illumination system enhances the service efficiency of light. 100-240V wide voltage system with stable output voltage increases the life of the bulb. Telecentric designed Koehler illumination system in conjunction with N.A.0.9/0.25 swing-out achromatic condenser, works absolutely fine with 2x-100x objectives.

Fluorescence Attachment

The powerful 100W, wide-spectrum, mercury-vapor episcopic illuminator uses a rotary filter-selector which can house up to six fluorescence filter-blocks; already included are blue and green excitation blocks.

Fluorescence Filter details:

Ultraviolet: BP330-385nm, DM400nm, BA420nm

Violet: BP400-410nm, DM400nm, BA420nm

Blue: BP460-495nm, DM505nm, BA510-550nm

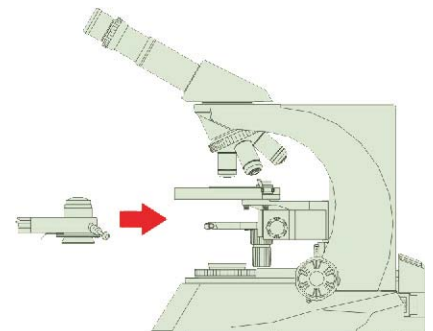
Green: BP510-550nm, DM570nm, BA590nm



Phase Contrast

Phase Contrast attachment consists of:

1. Turret type N.A. 1.25 Phase Contrast Condenser with five positions - three for phase contrast, one for dark-field & one for bright-field.
2. Infinity Plan Phase Contrast Objectives - 10x, 20x, 40x & 100x.
3. Telescopic Lens
4. Green Filter

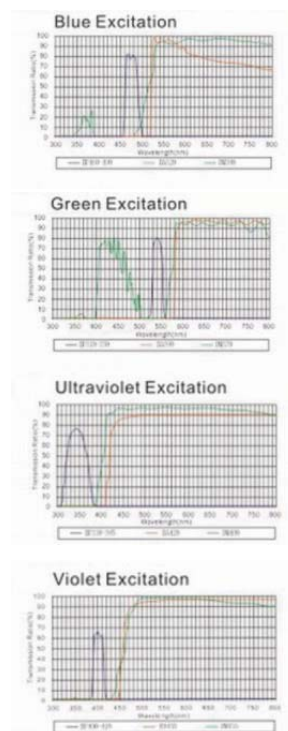


Technical Specifications		CS-U8000F
Optical System	Infinity Color Corrected Optical System	✓
Head	Seidentopf Trinocular Head, Inclined at 30° and 360° rotatable Interpupillary Distance adjustment range: 48 - 75mm Diopter Adjustment: ±5°	✓
	5-35° Ergonomically Tilttable Binocular/Trinocular Head	✗
Eyepiece	Extra-wide Field WF 10X/22mm	✓
Nosepiece	Quintuple, Backward tilted, Center adjustable, Click-stop Revolving mechanism with multiple ball bearing	✓
Objectives	Infinity Plan objectives Anti-fungal, Parfocal, Parcentric, color-coded	✓
	4X, 10X, 40X, 100X(Oil)	✓
	20X	✗
	100X for Dark-field	✗
Stage	Double Layer Mechanical Stage Double Slide holder Stage size: 185 x 142mm Movement range: 75mm (x-axis) x 55mm (y-axis) controlled with a long right hand stage handle	✓
Condenser	Swing type 0.9/0.25 N.A. Abbe Condenser with Aperture Iris diaphragm	✓
Filter	Blue & Green Filter, Ø 45mm	✓
Focusing	Coaxial focus system with upper limit and tension adjustment Focusing Adjustment by Rack & Pinion Mechanism. Coarse stroke 37.7mm per rotation, Fine stroke 0.1mm per rotation	✓
Transmitted Illumination	Koehler Illumination system External Illumination, Aspherical Collector, Pre-centered Halogen Illumination 6V-30W with iris diaphragm and Adjustable brightness	✓
	Halogen Illumination 24V-100W	✗
	LED Illumination 3W or 5W	✗
Power supply	85V-265V Universal Power Supply	✓
Reflected Illumination	Turret Type Fluorescent Attachment with position for Six Excitation Filters Reflected light source : Blue & Green excitation filters Light source:Epi-Illuminator 100W Mercury Lamp House Power Supply:Mercury Lamp Power House, Digital Display	✓
Warranty	Two years against any manufacturing defects. One year on electronic components. No warranty on consumables	✓

✓ = Standard Configuration
✗ = Optional

CS-U8000F can be upgraded for the following application:

- » UV Excitation Filter
- » V Excitation Filter
- » Micro-Photography
- » Phase Contrast Application
- » Dark Field Application



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