

Models

CS-IB1000 : Inverted Biological Microscope for Bright Field and Phase Contrast Application
CS-IB1000F : Inverted Biological Microscope for Bright Field, Phase Contrast and Fluorescence Application

Technical Specifications of CS-IB1000

Optical System	Universal Infinity Corrected Optical System (UIS)
Head	Seidentopf Trinocular Head, Inclined at 30° and 360° rotatable Interpupillary Distance adjustment range: 48 - 75mm Diopter Adjustment: ±5°
Eyepiece	High-Point, Extra Wide Field EW 10X/22mm
Nosepiece	Quintuple, Click-stop Revolving mechanism with multiple ball bearing Elastic nosepiece grip-ring
Objectives	LWD Infinite Plan Objectives - 4x/0.1, WD 18mm, 40x/0.6, WD 2.6mm (Spring) Infinite Plan Phase Objectives - PH10X/0.25, WD 10mm, PH 20X/0.4, WD 5.1mm (Spring), Anti-fungal, Parfocal, Parcentric, color-coded
Condenser	ELWD Condenser 0.3 N.A. LWD 72mm (without condenser 150mm) with Aperture Iris diaphragm and Ground glass blue filter
Phase Annulus	10x-20x, 40x Phase Annulus Plate
Stage	Plain Stage 160x250mm with Glass Insert Auxiliary Stages 70x180mm
Focusing	Coaxial Coarse and Fine Focusing Adjustment Knob for Vertical Objective Movement by Rack & Pinion Mechanism. Coarse Stroke 37.7mm per rotation Fine Stroke 0.2mm per rotation
Illumination	6V/30W Halogen Illumination with Adjustable brightness
Power supply	85V-240V Universal Power Supply
Filter	Ø45mm - Blue, Green and Ground Glass
Warranty	Two years against any manufacturing defects. One year on electronic components. No warranty on consumables

CS-IB1000 can be upgraded with / for the following application:

- » Attachable Mechanical Stage, X-Y Coaxial Control
Moving Range 120x78mm
- » LWD Infinite Plan Objective-
10X/0.25, WD 10mm
20X/0.4, WD 5.1mm
- » Infinite Plan Phase Objective-
40X/0.65, WD 2.6mm
- » Centering Telescope (Ø30mm)
- » Terasaki Holder
- » Ø38mm Petri Dish Holder
- » Ø54mm Slide Glass Holder
- » Fluorescence Application



The standard configuration is supplied with a fixed plain stage. The stage can be widened on both sides to accommodate large specimens with the included paired auxiliary stage plates. A hard coating protects the stage from scratches and wear.

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Model No.: CS-IB1000

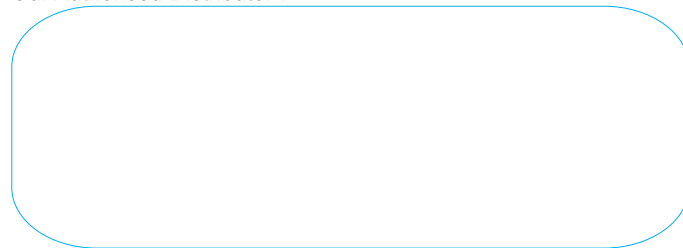
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CS-IB1000 Series
CatScope

CatScope CS-IB1000 is an advance, ergonomically designed, inverted biological microscope with Universal Infinity Optical System (UIS), correcting chromatic aberration and curvature of the field of view, thus offering excellent optical corrections and outstanding flat optical performance, which means bright and crisp images at every magnification. Anti-Fungal treatment is applied to the eyepieces, observation tubes and the objectives to protect the optics under high-humidity environment.



Stage

A newly designed attachable mechanical stage, now puts the coaxial controls at your fingertips. By moving the coaxial controls to the front of the stage – closer to the operator and adding a tension control adjustment to the stage controls we have significantly improved the ergonomics of the stage to provide a better operator experience.



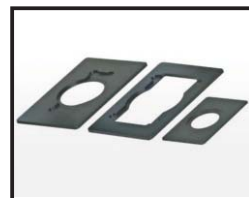
Viewing Head & Eyepiece

A 30° viewing angle for ergonomic comfort with interpupillary distance adjustment range of 48 – 75mm assures fatigue free viewing during extended observation sessions. Large viewing area with extra wide field 10x eyepieces with a 22mm field of view and rubber eyeguards.



Nosepiece & Objectives

Side facing revolving quintuple nosepiece enables maximum flexibility for a wide range of magnification observations and a variety of objective combinations. Featuring CatScope's UIS infinity optical system these objectives offer high N.A.'s and long working distances. A wide variety of plan, plan phase and plan fluor objectives are available.



Specimen Holder

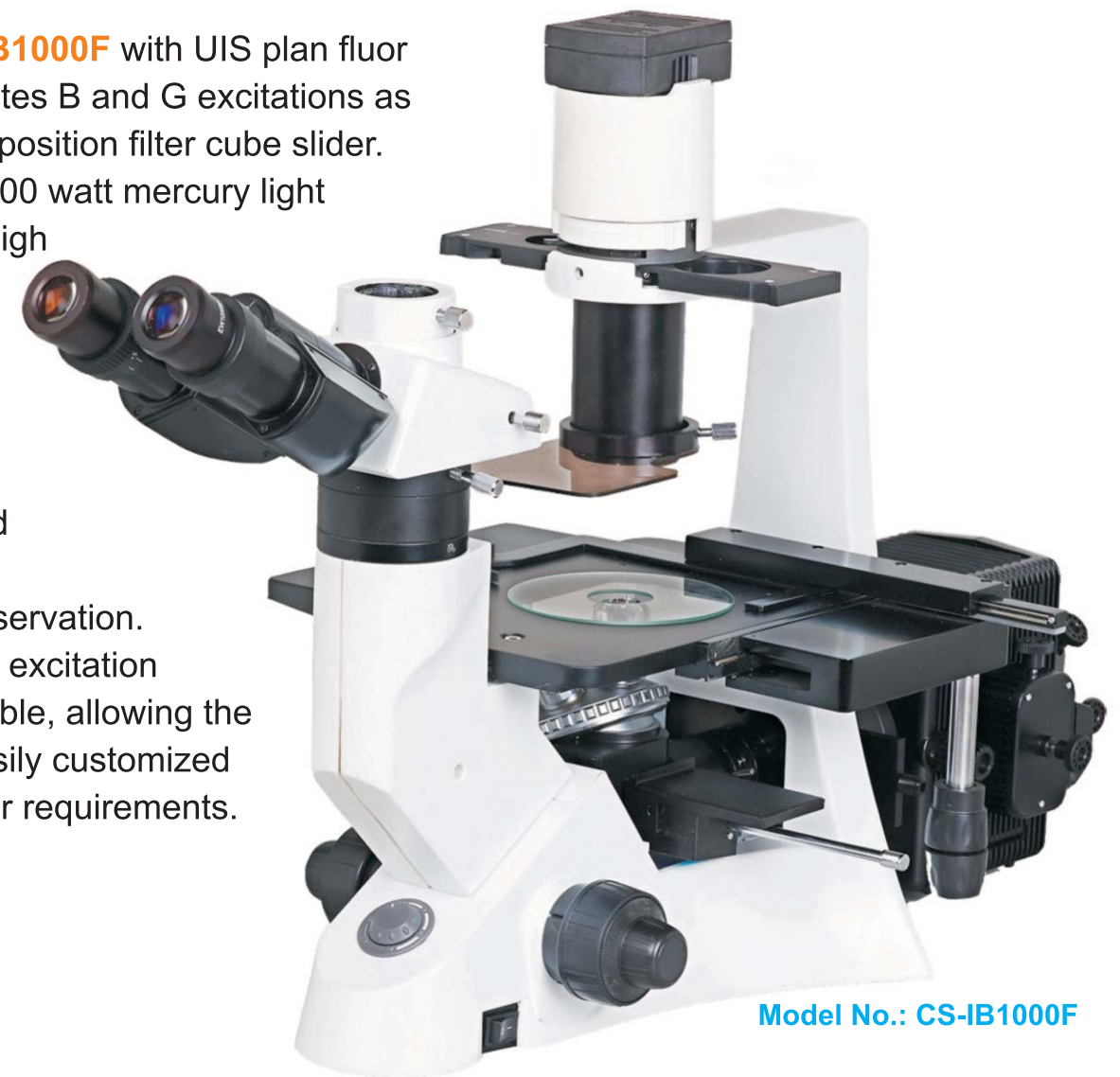
These optional specimen holders are available for use with the mechanical stage: Teraski holder (accepts Ø65mm petri dish), Ø35mm petri dish holder and a slide glass holder (accepts Ø54mm petri dish).



Condenser, Phase Contrast & Illuminator

The ELWD condenser with N.A. 0.3 and LWD 72mm provides bright even illumination for magnifications from 4x to 40x with an aperture diaphragm. With the condenser removed, the working distance is 150mm. Designed to improve user efficiency for routine tasks, the pre-centered phase contrast slider allows for quick, adjustment free observation. The Ph 1 annulus is for the 10x and 20x and the Ph 2 position is for the 40x. A third position is left empty for Ø45mm filters. A pre-centered 6 volt 30 watt variable halogen illuminator provides bright, even illumination at all magnifications.

CatScope CS-IB1000F with UIS plan fluor optics, incorporates B and G excitations as standard on a 3 position filter cube slider. The integrated 100 watt mercury light illuminator and high resolution Infinity plan fluor objectives provide unsurpassed performance and value for routine fluorescence observation. A wide variety of excitation cubes are available, allowing the system to be easily customized according to user requirements.



Model No.: CS-IB1000F

Technical Specifications of CS-IB1000F

Same as CS-IB1000

Fluorescence Unit:

Blue & Green Excitation Filters

100W HBO Ultra High Power Spherical Mercury Lamp House

100W HBO Ultra High Power Spherical Mercury Lamp

Digital Display 100W Mercury Power Source

Centering Objective

Options in-lieu of mentioned standard specification:

» Infinity Plan Fluorescent Objectives

4x, 10x, 20x(S), 40x(S),

Reflected Light Source

	Excitation	Dichroic Mirror	Barrier Filter
B	BP460-490	DM570	BA590
G	BP480-550	DM500	BA520
UV	BP330-385	DM400	BA420
V	BP400-410	DM455	BA455



Advanced High-Quality Optical Technology...

with Basic Human Touch!!