# SOTLA500 – Research Inverted Fluorescence Microscope







Monochrome camera Type 6.4 megapixel or more, monochromatic camera Sensor Monochromatic CMOS with backlight Sensor size 1/1.8 inch (7.41mm x 4.98mm) or larger Resolution 3088x2076 pixels (photography only) Pixel size 2.4 × 2.4µm Binning option 2 x 2 Exposure range 13µs – 25s Live frame rate in the range of minimum 45fps (for minimum resolution 3088x2076) up to 60 fps (for a minimum resolution of 1920-1080) Passive cooling Data transfer cable USB 3.1, Camera mounting: C-mount type Camera adapter: 0.5x magnification, C-mount type.

#### Software

Image overlay, manual object counting, movie playback, side-by-side image comparison, snap/movie acquisition, 3D orthogonal plane section, time-lapse at specific intervals, automatic merging of photos from multiple fluorescent channels, Z-axis photo joining, panoramic sample photography, image processing - geometry/combination/filter processing, area and line measurement, live photo blur, 2D deconvolution, 3D deconvolution, confluency check, object tracking.



## Research Inverted Fluorescence Microscope



## **Best choice for best results**

0.5X/0.65X/1X C-mount adapters, focus adjustable; Electric control box; PC and monitor; Centering eyepiece; Professional software



### Nosepiece

Revolving and reversed nosepiece for 6 objectives coded



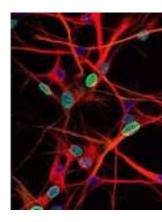
### **Objectives**

Infinity correction plan APO objectives



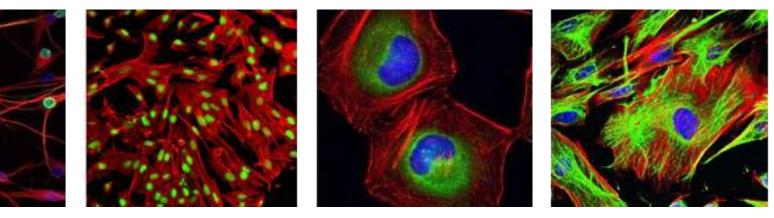
## Light source

10W LED light box (cold color temperature),optional 12V100W halogen light box with presetting filament centre; Optional 12V100W halogen lamp. Customer choice



### Binocular

better



TYPE	SC
Optical system	Infinitive Optics
Light path	100/0 - 50/50 - 0/100
Camera attachment	Left side 1x magnification
Focus shift range	Upper side: 6.5mm or more from the starting position
	Bottom side: 3mm or more from the starting position
	Initial position: 1mm or more above the surface of the table
Head lighting source support	With a lamp housing on top, which can be tilted 30°
Condenser	Up-and-down movement range of condenser support: 88mm of
Illumination:	Halogen bulb 100W
Eyepieces	Magnification 10x, one with diopter adjustment, field of view F
Binocular Head	Binocular head, with tilting adjustment 20-45 °, interpupillary
Table	Manual Table size is 300mm(X) x 240mm (Y). moving range: 13
	Right universal handle. X/Y axis limitable and lockable. Moving
Condenser	NA 0.55, working distance 27mm, dome with minimum 5 holes
	corresponding to the offered lenses
Nosepiece	Manual lens mount with 6 positions, coded
Objectives with phase contrast	Long working distance semi-apochromaitc 10X, NA=0.30, WD
lenses	Long working distance semi-apochromaitc 20X,
	NA=0.45, WD=6.5-7.6mm, coverslip thickness: 0-2mm.
	Long working distance semi-apochromaitc 40X,
	NA=0.60, WD=2.85-4.05mm, coverslip thickness: 0-2mm.
	Long working distance semi-apochromaitc 60X,
	NA=0.70, WD=1.42-2.10mm, coverslip thickness: 0-1.3mm.
Fluorescent illuminator	With motorized filter cube holder with a capacity of at least 8 f
Filter cubec for fluorecopeo	tools. The motorization is controlled via a computer and a man
Filter cubes for fluorescence	Excitation filter 360-370nm, emission filter 420-460nm or wid
	Excitation filter 460-495nm, emission filter 510-550nm or wid
	Excitation filter 590-650nm, emission filter 663-738 or wider i
	Light source for fluorescence: LED, emission spectrum 400 - 6
Light intensity control	0-100% in steps of 1%, working life more than 25,000 hours, o
Motorized fine focus	(Z axis), PC and joystick control.

#### SOTLA500

or more, with condenser centering mechanism

FN22

/ distance 50-76mm. The eyepiece diopter is -5 to +5 range L35mm(X) x 85mm(Y). table thickness: 30mm. g range: 50x50mm. with 110mm replaceable disc es for adding optical elements. Optical elements for phase contrast

D=8.8mm.

filter cubes. Simple installation of filter cubes without the use of nual steering wheel or joystick

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ider ranges

ranges

645 nm, cooling with an internal fan,

control via manual