



# FLUO500 – Fluorescence Inverted Microscope with Phase Contrast

Binocular / Trinocular

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Catalogue



COLO FLUO500 inverted fluorescence microscope can be widely used in medical research, biological science, pharmacy and other disciplines for basic theoretical research and clinical diagnosis. It is also widely used in industry, agriculture, animal husbandry, criminal investigation, forensic identification, environmental protection engineering, preventive medicine and other fields.

Excellent UCIS Infinity colour correction optical system independently of the system, with a long working distance and high numerical aperture objective lens. The optical performance is improved and the function expansion has great significance. Humanized mechanical design, compact structure, overall die-casting of the fuselage, more stable and reliable.

Perfect knot together a phase contrast, fluorescence, simple polarizing, digital camera and other functions, higher efficiency. Excellent weak fluorescence imaging, fluorescence switch push-pull manner, with B, a plurality of fluorescent G, U, V and the like excitation, observed DAPI, FITC-, TRITC, Alexa Fluor series, Cy3-based columns and other common fluorescent dyes, the CTC Detection, FRET, cellular immunity and other fields are widely used.



## Inverted Microscope

Inverted microscopy is a very popular technique for live cell imaging



## Phase Contrast



## Nosepiece

Revolving and reversed nosepiece for 5 objectives



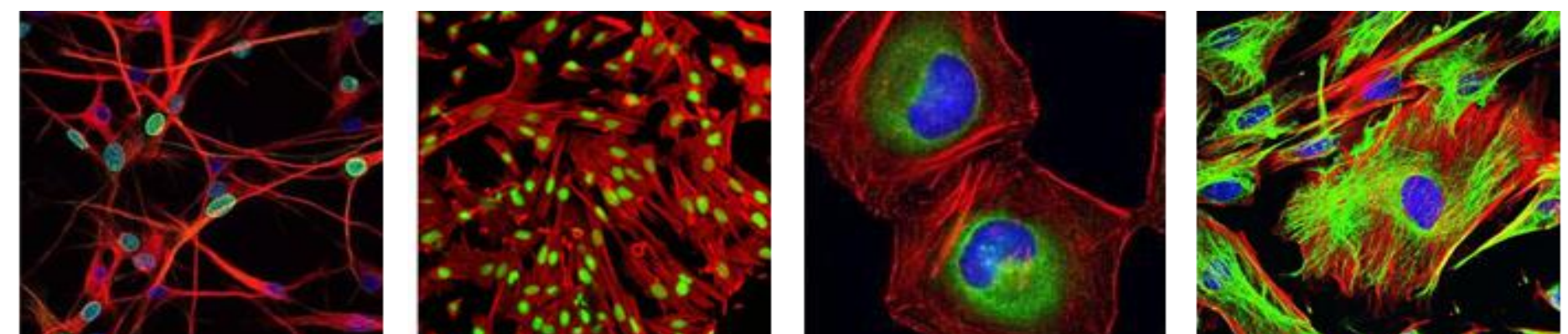
## Objectives

Infinity Plan Achromatic LWD Objectives



## Light source

The innovative design offer larger apertures, allowing the optical system of the microscope to produce images at higher resolutions



## TECHNICAL SPECIFICATIONS

### EYEPIECE(S)

- (FLUO500T) Extended EWF 10x/20 mm eyepieces, Ø 30.0 mm tubes.
- (FLUO502T) Extended EWF 10x/20 mm eyepieces, Ø 23.2 mm tubes.(Ø 30.0 optional)
- Eyepieces can be secured to the tubes

### HEADS

- Binocular Siedentopf type heads are with 45° (FLUO500T) / (FLUO502T) 30° inclined tubes, interpupillary distance from 52 to 75 mm and are equipped with diopter adjustment(s).
- The trinocular head comes with a Ø 30 mm photo port.
- An optional ergonomic titling head (0:100 50:50) are also available (optional)

### NOSEPIECE

- Revolving and reversed nosepiece for 5 objectives

### OBJECTIVES

- All optics are anti-fungus treated and anti-reflection coated for maximum light throughput
- Infinity plan achromatic LWD objectives 4x/0.13 (optional) / 10x/0.25/ 20x/0.40/ S40x/0.60/ S60x/0.70 (optional)
- Infinity plan achromatic LWD phase contrast objectives 4x/ 0.13 (optional) / 10x/0.25 (optional) / 20x/0.40/ S40x/0.60 (optional)

### FILTERS

- B/G/R/Y/UV/V fluorescence filters sets.

### STAGE

- Attachable mechanical stage
- Mechanical stage 180 x 155 mm ceramic (optional) stage with integrated 80 x 50 mm mechanical stage protects with a very tough ceramic surface (optional), against marks and scratches. The surface also ensures stray light not to be reflected from the stage into the objective

### CONDENSER FOR BRIGHT FIELD

- ELWD condenser NA 0.30, LWD 72mm, it will be 150mm after taking down the condenser.

### FOCUSING

- Coaxial coarse and fine adjustments, 100 graduations, 1µm per graduation, 100µm per rotation, total travel approximately 14 mm.
- Supplied with an adjustable rack stop to prevent damage to sample and objectives.
- The coarse adjustments are equipped with friction control

### ILLUMINATION

- 100W mercury lamp/ 100W mercury lamp(optional) adjustable halogen illumination with internal 100-240 V power supply
- The innovative design offer larger apertures, allowing the optical system of the microscope to produce images at higher resolutions, very close to the theoretical diffraction limit of the optics.
- Other benefits of the COLO FLUO500 are the low energy consumption and a long operating lifetime
- The illumination on models with IOS plan and plan phase infinity corrected system provides high contrast and a maximum achievable resolving power of the optics. Also available for other models as an option

### PACKAGING

- Supplied with power cord, dust cover, a spare fuse, user manual.
- All packed in good quality foam and carton.

TYPE	FLUO500T	FLUO502T
Metal construction of frame	●	●
Trinocular Tube Interpupillary distance 52-75mm 45°inclined,dioptr adjustable. Trinocular light is split 50/50 by a high quality prism, dioptr adjustable	○	●
Interpupillary distance 48-75mm 45°inclined,dioptr adjustable.	○	●
Trinocular Tube, Interpupillary distance 52-75mm, 30°inclined, Trinocular light is split 50/50 by a high quality prism, dioptr adjustable	●	○
WF10X/20mm Plan Eyepiece,	●●	●●
WF10X/22mm Plan Eyepiece,	○○	○○
WF10X/20mm Reticule Eyepiece, High eye-point up to 21mm	○○	○○
Plan eyepiece WF16X/13	○○	○○
Centring Telescope	●	●
4X Infinity Long Distance Plan Achromatic Objectives	○	○
10X Infinity Long Distance Plan Achromatic Objectives	●	●
20X Infinity Long Distance Plan Achromatic Objectives	●	●
40X Infinity Long Distance Plan Achromatic Objectives	●	●
60X Infinity Long Distance Plan Achromatic Objectives	○	○
4X Infinity Long Distance Plan Achromatic Phase-Contrast Positive Objectives	○	○
10X Infinity Long Distance Plan Achromatic Phase-Contrast Positive Objectives	○	○
20X Infinity Long Distance Plan Achromatic Phase-Contrast Positive Objectives	●	●
40X Infinity Long Distance Plan Achromatic Phase-Contrast Positive Objectives	○	○
20X Infinity Long Distance Plan Achromatic Phase-Contrast Positive Objectives	○	○
10X Infinity Long Distance Plan Achromatic Phase-Contrast Negative Objectives	○	○
20X Infinity Long Distance Plan Achromatic Phase-Contrast Negative Objectives	○	○
40X Infinity Long Distance Plan Achromatic Phase-Contrast Negative Objectives	○	○
Filter turret – Multi functional	●	
Blue Excitation Filter Sets	●	●
Green Excitation Filter Sets	●	●
Red Excitation Filter Sets	○	○
Violet Excitation Filter Sets	○	○
Ultraviolet Excitation Filter Sets	○	○

Type	FLUO500T	FLUO502T
Fixed Stage, 240mmX260mm; movement range: 135mmx85mm; with low-positioned X/Y coaxial control knob.	●	○
Right hand controls, low position, fixed stage, 240mm x180mm	○	●
Fixed Stage + Attachable Mechanical Stage	●	●
Mechanical Stage, 180mmx155mm; movement range: 80mmx50mm; with low-positioned X/Y coaxial control knob.	○	○
Mechanical Stage, 350mmx208mm; movement range: 50mmx50mm; with low-positioned X/Y coaxial control knob.	○	○
Drop specimen holder(φ110)	●	○
Specimen holder for microtiter plate	●	●
Drop specimen holder(φ118)	●	●
Specimen holder 125*85	●	●
Specimen holder 76*26, φ54 for microscope slides	●	●
Quintuple Revolving Nosepiece	●	●
Phase-contrast slide (For 10X/20X/40X phase contrast ring and bright field observation)	●	●
Phase-contrast slide (For 4x/10X/20X/40X phase contrast and bright field observation)	○	○
Protection against unauthorized eyepiece and lens disassembly	○	○
Adapter for Nikon DSLR	○	○
Adapter for Cannon DSLR	○	○
0.5X C-Mount	●	●
0,25X C-Mount	○	○
X C-Mount	○	○
Transmitted Illumination 6V30W	●	●
Fluorescence Illumination 100W Mercury vapor lamp	●	●
UV Shield	●	●
Blue filter(φ34) with slider	●	●
Green filter(φ34) with slider	●	●
Yellow filter(φ34) with slider	●	●
LED Light (UP)	○	○
6V/30W tungsten* Bulb	●	●
6V30W Power supply for tungsten lamp house	●	●
φ2mm Allen screwdriver	●	●
Power Cord	●	●
Dust Cover	●	●

Please note

If this Microscope does not match the specific needs of your application, or some options are not listed for sale, please feel free to contact us. Our manufacturing engineers will come up with technical solutions to meet your needs. We reserve the right to change technical specifications at any time.