



# INVE500 – Inverted Biological Microscope with Phase Contrast

Trinocular

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Catalogue



INVE500 Inverted Routine Microscope is kind of advanced, laboratory microscope, most applied the field of medicine, clinical and biology research. Equipped with universal infinity independent plan achromatic optical system, produce sharp images. Chromatic aberrations, curvature of field are both ideally corrected over the field of view.

High eye point, Wide field of view eyepiece, and its diopter are adjustable. Standard 10X eyepieces view-field can choose between 20mm and 22mm. And high eyepoint eyepiece with the distance up to 21mm view-field can bring you wider vision and more comfortable feeling.

Working distance 50-100mm

Optics System: Infinity Independent Plan Achromatic Optical System F=200mm Viewing Head : Siedentopf trinocular tube, Interpupillary distance 52~75mm, 45°inclined, 360° rotatable, diopter adjustable.

Option:

Multi-purpose contrast condenser

Digital Camera with Software 10MP, 16MP,



## Inverted Microscope



## Koehler Illumination



## Nosepiece

Revolving and reversed nosepiece for 5 objectives



## Objectives

Infinity Plan Achromatic Objectives



## LED Light source

3 W adjustable LED illumination or 30W tungsten-halogen\* lamp

#### EYEPECE

- Extended EWF 10x/20 mm eyepieces, Ø 30 mm tubes.
- Eyepieces can be secured to the tubes

#### HEADS

- Trinocular Siedentopf type heads are with 45°/30° inclined tubes, Interpupillary distance from 52 to 75 mm and is equipped with diopter adjustment(s). (48 to 75 mm 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)

#### STAGE

- Attachable mechanical stage
- Mechanical stage 240 x 260 mm stage with integrated 135 x 85 mm mechanical stage.

#### 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, 1 µm per graduation, 100 µm 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

- 6V 30W 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 INVE500 Microscopes is 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.
- UCIS Infinity Independent Achromatic Optical System
- WF10x plan eyepieces, 20mm field of view, high eye point up to 21mm
- Siedentopf Trinocular viewing head, inclined 45°
- 52-75mm Interpupillary distance settings
- ±5 Diopter adjustment
- Quintuple nosepiece inward facing with positive click stops
- Infinity long work distance plan Achromatic 10x, 20x, 40x and Infinity long work distance phase-contrast 20x objectives
- Right hand controls, low position, mechanical stage, 240mm x 260mm, movement range 135mm x 85mm
- N.A. 0.30 Abbe condenser with iris diaphragm, with phase-contrast slide, long work distance 72mm
- The Coaxial coarse and fine focus mechanism with markings on fine focus knobs. Fine focus sensitivity 0.001mm
- Dust cover, power cord

INVE	550T	500T
Metal construction of frame	●	●
Siedentopf, Interpupillary distance 52-75mm 45°inclined,dioptr adjustable.	○	○
Siedentopf, Interpupillary distance 48-75mm 45°inclined,dioptr adjustable.	○	●
Trinocular Tube, Interpupillary distance 48-75mm, 30°inclined, Trinocular light is split 50/50 by a high quality prism, dioptr adjustable	●	○
WF10X/20mm Plan Eyepiece, High eye-point up to 21mm	●●	●●
Working Distance 50-100mm	●	●
WF10X/22mm Plan Eyepiece, High eye-point up to 21mm	○○	○○
WF10X/20mm Reticule Eyepiece, High eye-point up to 21mm	○○	○○
Plan eyepiece WF16X/13	○○	○○
Centring Telescope	●	●
Plan Eyepiece, 16X/13mm	○○	○○
4X Infinity Long WD Plan Achromatic Objectives	○	○
10X Infinity Long WD Plan Achromatic Objectives	●	●
20X Infinity Long WD Plan Achromatic Objectives	●	●
40X Infinity Long WD Plan Achromatic Objectives	●	●
60X Infinity Long WD Plan Achromatic Objectives	○	○
4X Infinity Plan Achromatic Phase-Contrast Positive Objectives	○	○
10X Infinity Plan Achromatic Phase-Contrast Positive Objectives	○	○
20X Infinity Plan Achromatic Phase-Contrast Positive Objectives	●	●
40X Infinity Plan Achromatic Phase-Contrast Positive Objectives	○	○
20X Infinity Plan Achromatic Phase-Contrast Positive Objectives	○	○
10X Infinity Plan Achromatic Phase-Contrast Negative Objectives	○	○
20X Infinity Plan Achromatic Phase-Contrast Negative Objectives	○	○
40X Infinity Plan Achromatic Phase-Contrast Negative Objectives	○	○

Fixed Stage, 240mmX260mm; movement range: 135mmx85mm; with low-positioned X/Y coaxial control knob.	○	●
Mechanical Stage, 180mmx155mm; movement range: 80mmx50mm; with low-positioned X/Y coaxial control knob.	○	○
Drop specimen holder(φ110) for petri dish	●	●
Specimen holder for microtiter plate	●	●
Drop specimen holder(φ118)	●	●
Specimen holder 125*85	●	●
Specimen holder 76*26, φ54 for microscope slides	●	●
Mechanical Stage, 350mmx208mm; movement range: 50mmx50mm; with low-positioned X/Y coaxial control knob.	○	○
Quintuple Revolving Nosepiece	●	●
Phase-contrast slide (For 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	○	○
6V30W tungsten lamp house	●	●
Blue filter(φ34) with slider	●	●
Green filter(φ34) with slider	●	●
Yellow filter(φ34) with slider	●	●
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.