



INVE600TL – Inverted Biological Microscope with Phase Contrast

Trinocular

Download
Catalogue



INVE600TL 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, 30°inclined, 360° rotatable, diopter adjustable ± 5 mm.

Option:

Multi-purpose contrast condenser

Digital Camera (5,1 MP, 10MP, 16MP, 20 MP) with Software (enables the camera to function and obtain images in digital format, image processing, distance measurement, recording, entering comments, as well as many other functions). Adapter included.



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

- 2x WF 10x/22 mm eyepieces, Ø 30 mm tubes.
- Eyepiece micrometer with scale WF10x/18, 10mm, calibrated by the technician
- Eyepieces can be secured to the tubes

HEADS

- Trinocular Siedentopf type heads are with 30° inclined tubes, Interpupillary distance from 48 to 76 mm and is equipped with diopter adjustment(s).

NOSEPIECE

- Revolving and reversed nosepiece for 5 objectives

OBJECTIVES

- All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

STAGE

- Attachable mechanical stage
- Mechanical stage 250 x 160 mm stage with movement on the X and Y axes in the range of 120x78 mm, holder for Petri dishes
- Glass holder with adapters (adapter for Ø35 mm and adapter for Ø54 mm diameter).

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

- 3 W adjustable LED illumination or 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 INVE600TL 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, 22mm field of view, high eye point up to 21mm
- Eyepiece micrometer with scale WF10x/18mm, 10mm, calibrated by the technician
- Siedentopf Trinocular viewing head, inclined 30°, 360° rotatable
- 48-76mm Interpupillary distance settings
- ±5mm Dioptre adjustment on both sides
- Light intensity selector 100%-0% or 0%-100%
- Quintuple nosepiece inward facing with positive click stops
- Right hand controls, low position, mechanical stage, 250mm x 160mm, movement range 120mm x 78mm
- 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. Coaxial buttons for coarse and fine focusing
- Dust cover, power cord, filters

- Specifications: ● - Standard Configuration ○ - Optional configuration

INVE	600TL
Metal construction of frame	●
Trinocular Tube, Siedentopf, Interpupillary distance 52-75mm 45°inclined,dioptr adjustable.	○
Trinocular Tube, Siedentopf, Interpupillary distance 48-76mm 30°inclined,dioptr adjustable.	●
Trinocular Tube, Interpupillary distance 48-76mm, 30°inclined, Trinocular light is split 50/50 by a high quality prism, dioptr adjustable	○
Light intensity selector 100%-0% or 0%-100%	●
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	○
Eyepiece micrometer with scale WF10x/18mm, 10mm	●
Centring Telescope	●
Plan Eyepiece, 16X/13mm	○
Glass holder with adapters	●
Plan Achromatic Objectives 4X NA 0.10, WD 18 mm	●
Plan Achromatic Objectives 10X NA 0.25, WD 10 mm	●
Plan Achromatic Objectives 20X NA 0.40, WD 5.1 mm	●
Plan Achromatic Objectives 40X NA 0.60 WD 2.6 mm	●
Infinity PH Plan Objectives 4X	○
Infinity PH Plan Objectives 10X	○
Infinity PH Plan Objectives 20X	○
Infinity PH Plan Objectives 40X	○
Plan Achromatic Phase-Contrast Objectives 10X/0.25	○
Plan Achromatic Phase-Contrast Objectives 20X/0.40	○
Plan Achromatic Phase-Contrast Objectives 40X/0.60	●
ABBE condenser N.A. 0.30, WD 72mm	●

Mechanical Stage, 250mmx160mm; movement range: 120mmx78mm; with low-positioned X/Y coaxial control knob.	●
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 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	●
3W LED light	●
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.