



# EPO700 – Research Grade Biological Microscope

Binocular / Trinocular

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Catalogue



EPO series of Biological Microscope is kind advanced, laboratory research grade microscope, most applied in the field of medicine, clinical and biology research. This type of microscope can be supplied with refocus stage. Equipped with universal infinity independent plan achromatic optical system, chromatic aberrations and curvature of field are both ideally corrected over the field of view. And the COLO objectives own higher NA's producing crisp, clear images.

High eye point, Wide field of view eyepiece, and its diopter is adjustable. Standard 10X eyepieces view-field can be chosen 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.

Optics System: Infinity Independent Plan Achromatic Optical System F=200 mm Viewing Head : Siedentopf binocular tube, Interpupillary distance 52~75mm, 30° inclined (, 360° rotatable, diopter adjustable.

EPO700LM is equip with light manager (each objective is coded and separately can be adjust light intensity)

Option:

Efficient Infinity Gemel Trinocular head 30°-60° elevation adjustable

COLO Microscope cameras

Phase contrast with positive or negative objective

Multi-purpose contrast condenser

Dark field condenser



## Upright Microscope

Handle for easy one-handed portability, Infinity color corrected optical system.



## Variable Koehler Illumination

with adjustable Koehler field diaphragm



## Nosepiece

Revolving and reversed nosepiece for 5 objectives



## Objectives

Infinity Plan Achromatic Objectives  
UIS2 Optical system



## Light source

15 W LED (50000 working hour) or 20/30W tungsten-halogen\* lamp with adjustable constant intensity light control.



Ultra Hard Ceramic surface coated stage  
double layer XY moving left/right hand

EPO700 Series of Microscopes Is compact, maintenance free, research grade transmitted light microscope

- Building Blocks Design For Combining Multiple Functions, Fluorescence, Phase Contrast, Polarizing, Dark Field Attachments Can Be Assembled On
- Widely Apply To Clinical Diagnosis, Teaching Experiment, Pathological Test And Other Micro-fields.
- Bright field/Dark field, transmitted light
- Integrated Carry Handle
- Mechanical stage, coaxial X-Y axis right hand, 0,1mm division (ceramic stage is option)
- High quality optical system infinity corrected Standard DIN 210mm
- Microscope full metal body, provide stability of instruments.
- Fine and Coarse Coaxial Focusing Block, Microscope Stage is full made from metal parts (optional ceramic coated) to provide accurate and durable exploitation
- Antimicrobial/Antifungal Coating
- Binocular/Trinocular Head
- Integrated carry handle
- Eyepiece: WF10X20 or WF10X22
- Condenser: Abbe Condenser NA1.25 with Iris Diaphragm 32mm with filter holder (for optional Darkfield, Phase contrast.. Slides) high levelling, centering
- Viewing Head: 30° Inclined and 360° rotating (Adjustable head 10° to 60° is optional)
- Dioptres Adjustment
- Chemical resistance coating

### FOCUSING

- Coaxial coarse and fine adjustments
- Fine focusing knob - 100 graduations, 1µm per graduation, 100µm per rotation,
- Coarse focusing knob - total travel approximately 17.8mm.(most to 25mm)
- Supplied with an adjustable rack stop to prevent damage to sample and objectives.
- Ergonomic height adjustment of the mechanism for fine and coarse focusing
- The coarse adjustments are equipped with friction control and stop line to prevent breakage of the microscope slide, rubberized

### ILLUMINATION

- 15 W adjustable LED illumination 6000K temp 50000 h life a full intensity or 20/30W tungsten-halogen\* lamp, with 100-240 V power supply (USB-Power Bank is optional)
- 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 benefit is the low energy consumption, no heating and a long operating lifetime
- Colour temperature of Tungsten-Halogen lamp is 3.200K

Specifications: ● - Standard Configuration ○ - Optional configuration

Condenser CL/PH 0.90/1.25 OIL

- Condenser type: ABBE condenser
- Condenser mount size: dia 45mm
- Range of objective: 4-100X
- Condenser: Adjustable
- Max. Numerical Aperture: N.A. 1.25



EPO700	700C	700H	700A	700G	700P	700U	700K	700D	700R	700LM
Binocular, Interpupillary distance 50-76mm	●	●	●	○	●	○	●	○	●	○
Trinocular, Interpupillary distance 50-76mm (oculars 20%:80% Camera 100% Oculars 100% )	○	○	○	●	○	●	○	●	○	●
Trinocular, Interpupillary distance 50-76mm (50:50)	○	○	○	○	○	○	○	○	○	○
High eye-point plan eyepiece WF10X/20	○○	○○	○○	○○	○○	○○	○○	○○	○○	○○
High eye-point plan eyepiece WF10X/22	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Plan eyepiece WF16X/13	○○	○○	○○	○○	○○	○○	○○	○○	○○	○○
High eye-point plan eyepiece WF10X/18 (Pointer)	○		○	○	○	○	○	○	○	○
High eye-point plan eyepiece WF10X/22	○	○	○	○	○	○	○	○	○	○
Reticule Eyepiece, Cross WF10X/18	○	○	○	○	○	○	○	○	○	○
Infinity Achromatic Objective 4X N.A.0.10 WD 200mm	●	○	○	○	●	●	●	●	●	○
Infinity Achromatic Objective 10X N.A. 0.25 WD 12mm	●	○	○	○	●	●	●	●	●	○
Infinity Achromatic Objective 40X(S) N.A.0.65 WD 0,36mm	●	○	○	○	●	●	●	●	●	○
Infinity Achromatic Objective 100X(S)/(Oil) N.A. 1.25 WD 0,13mm	●	○	○	○	●	●	●	●	●	○
Infinity Plan Achromatic Objective 2X	○	○	○	○	○	○	○	○	○○	○
Infinity Plan Achromatic Objective 4X N.A.0.10	○	●	●	●	○	○	○	○	○	○
Infinity Plan Achromatic Objective 10X N.A. 0.25	○	●	●	●	○	○	○	○	○	●
Infinity Plan Achromatic Objective 20X N.A. 0.40	○	●	●	●	○	○	○	○	○	●
Infinity Plan Achromatic Objective 40X (S) N.A. 0.65	○	●	●	●	○	○	○	○	○	●
Infinity Plan Achromatic Objective 60X (S) N.A. 0.85	○	○	○	○	○	○	○	○	○	○
Infinity Plan Achromatic Objective 100X (S) (OIL) N.A. 1.25	○	●	●	●	○	○	○	○	○	●
Light manager	○	○	○	○	○	○	○	○	○	●
Centring Eyepiece	○	○	○	○	●	●	○	○	○	○
Infinity Achromatic Objective 4X N.A.0.13	○		○	○	●	●	○	○	○	○
Infinity Ach. Phase-Contrast Objectives (Positive) 10X	○	○	○	○	●	●	○	○	○	○
Infinity Ach. Phase-Contrast Objectives (Positive) 40X (S)	○	○	○	○	●	●	○	○	○	○
Infinity Ach. Phase-Contrast Objectives (Positive) 100X (S) (Oil)	○	○	○	○	●	●	○	○	○	○
Plan Dis Phase-contrast Condenser, CL/PH 0.90/1.25 Oil	●	○	○	○	●	●	○	○	○	○
Plan Dis Phase-contrast Condenser (with 10X /40X dark field function)	○	○	○	○	○	○	○	○	○	○
COLO Microscope camera with software according customer demand	○	○	○	○	○	○	○	○	○	○
Mechanical Stage, ceramic, right handed, tension control 150X162mm, movement range 76X52mm with slide holder up to 2 pcs, CW rotated 239°, rubberized	●	○	○	○	○	○	○	○	○	●
Mechanical Stage, right handed, 156X138mm, movement range 76X54mm with slide holder	○	●	●	●	●	●	●	●	○	○
Reckless Stage, right handed, 185X177mm, movement range 75X50mm	○	○	○	○	○	○	○	○	●	●

Quadruple Nosepiece, inward facing	●	●	●	●	●	●	●	●	●	●
Quintuple Nosepiece, inward facing Click Stop	○	○	○	○	○	○	○	○	○	○
Abbe Condenser N.A. 1.10 with slot for contrast slides (dark field, phase contrast, light field, compensator...).	●	●	●	●	●	●	●	●	●	●
Kohler Illuminator (With field diaphragm)	●	●	●	●	●	●	●	●	●	●
Kohler Illuminator (No field diaphragm)	○	○	○	○	○	○	○	○	○	○
6V 20W Tungsten-Halogen Lamps, intensity adjustable	○	●	○	●	●	●	●	●	●	○
6V 30W Tungsten-Halogen Lamps, intensity adjustable	○	○	○	○	○	○	○	○	○	○
3W LED Electric Device (with Rechargeable Batteries)	○	○	○	○	○	○	○	○	○	○
3W LED Pre - Centered, Intensity Adjustable	●	○	●	○	○	○	○	○	○	○
15W LED, Pre - Centered, Intensity Adjustable	○	○	○	○	○	○	○	○	○	●
0.5X C-Mount	○	○	○	○	○	○	○	○	○	○
1X C-Mount	○	○	○	●	○	●	○	●	○	○
0,65X C-Mount	○	○	○	○	○	○	○	○	○	○
HDMI	○	○	○	○	○	○	○	○	○	○
USB charging port	○	○	○	○	○	○	○	○	○	○
Adapter for Nikon DSLR	○	○	○	○	○	○	○	○	○	○
Adapter for Canon DSLR	○	○	○	○	○	○	○	○	○	○
Protection against unauthorized eyepiece and lens disassembly	○○	○○	○○	○○	○○	○○	○○	○○	○○	●●
Blue Filter (φ32)	○	●	○	●	●	●	●	●	●	●
Green Filter (φ32)	○	○	○	○	○	○	○	○	○	○
Yellow Filter (φ32)	○	○	○	○	○	○	○	○	○	○
AAdjustable Microscope Binocular head 10 ° to 60 °	○	○	○	○	○	○	○	○	○	○
250V/3.15A Φ5X20 fuse	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
6V 30W Tungsten-Halogen lamp	○	○	○	○	○	○	○	○	○	○
6V 20W Tungsten-Halogen lamp	○	○	○	○	○	○	○	○	○	○
3W Led Lamp	○	○	○	○	○	○	○	○	○	○
Immersion Oil 10ml	●	●	●	●	●	●	●	●	●	●
User manual	●	●	●	●	●	●	●	●	●	●
Dust Cover	●	●	●	●	●	●	●	●	●	●
φ2mm Allen screwdriver	●	●	●	●	●	●	●	●	●	●
Power Cord	●	●	●	●	●	●	●	●	●	●

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.