



MSU-600 Series Compound Microscopes

- Binocular and trinocular models
- Revolving nosepiece for effortless objective changes
- Siedentopf head with 30° incline
- 5-year warranty



Cole-Parmer® MSU-600 Series Compound Microscopes

Eyepieces

- Extended plan wide field EWF 10x/22 mm eyepieces with 22 mm field of view and adjustable diopter on both eyepieces for infinity corrected IOS plan and plan phase systems and adjustable diopter on the left tube for Eco plan IOS (EPLi) systems (Ø 30 mm tube)

Head

- Trinocular head of the plan infinity corrected models has an optical path selector (100:0 / 50:50) and ± 5 diopter adjustments on both Ø 30 mm tubes
- Trinocular head of the E-plan infinity corrected models has a fixed, built-in beam splitter (50:50) and ± 5 diopter adjustment on the Ø 30 mm left tube
- A unique rotating system allows ergonomic positioning of both tubes in a high (431 mm) and a low (397 mm) position
- Trinocular head comes with a Ø 23.2 mm photo port

Nosepiece

- Revolving quintuple reversed nosepiece for a maximum of five objectives

Stage

Can be equipped with three types of stages:

- 187/230 x 140 mm rackless stage equipped with double slide holder and integrated 79 x 52 mm X-Y mechanical stage. The MSU-600 rackless stage has no protruded parts, enables smoother movements and is safer
- 150 x 140 mm stage with integrated 78 x 53 mm X-Y mechanical stage with plain inserts
- 360° rotating Ø 160 mm graduated stage with two object clamps

Condenser for Brightfield

The standard height-adjustable Abbe N.A. 1.25 condenser for brightfield accepts sliders with phase annuli suitable for plan phase 10x/20x or S40x/S100x oil immersion IOS objectives for economical phase contrast

Condenser for Zernicke Phase Contrast

An optional height-adjustable Zernicke N.A. 1.25 phase contrast disc condenser with plan phase 10x/20x/S40x and S100x oil immersion objectives.

Condenser for Darkfield (Standard)

The condenser is equipped with reflective cardioid mirrors and a built-in high powered 5 W LED light source. Together with a S100x objective with built-in iris diaphragm, this enables a 1000x magnification darkfield solution. The power supply of the 5 W LED light source is built in the microscope. The darkfield condenser can easily be exchanged for a brightfield condenser which is also included.

Focusing

- Coaxial coarse and fine adjustments, 200 graduations, 1 μm per graduation, 200 μm per rotation, total travel range is approximately 24 mm
- Adjustable rack stop to prevent damage to samples and objectives
- Coarse adjustments equipped with friction control

Illumination

- 3 W adjustable Köhler NeoLED diascope illumination with internal 100 to 240 V power supply for brightfield and phase contrast models
- The innovative NeoLED design offers larger apertures, allowing the optical system of the MSU-600 microscope to produce images at higher resolutions, very close to the theoretical diffraction limit of the optics.
- Other benefits of the NeoLED is low energy consumption, no heating and a long operating life span
- The Köhler illumination on models with IOS plan and plan phase infinity corrected system provides high contrast and a maximum achievable resolving power of the optics
- High-power 5 W LED built-in the cardioid mirror condenser for darkfield

Sensor

The unique sensor is developed to avoid unnecessary loss of energy. The illumination of the microscope automatically switches off shortly after user steps away from their position.

Cole-Parmer® MSU-600 Series Compound Microscopes

Cable Storage System

Allows users to easily insert the power cable into the back of the instrument, which enables easy storage. The integrated carrying grip at the back of the microscope ensures safe transportation of the microscope.

What's Included

Microscope, dust cover, spare fuse, 5 mL immersion oil for models with S100x objective, and power cord.

Description	Objectives	Objective type	Stage	Power	Dimensions (H x W x D)	Weight	Item number
Binocular compound microscope	4/10/40/100x E-Plan IOS	Brightfield semi-plan	187/230 x 140 mm rackless stage	100 to 240 V, 50/60 Hz	16.1 x 8.3 x 10" (408 x 210 x 255 mm)	24.1 lb (10.9 kg)	78904-16
Trinocular compound microscope	4/10/40/100x E-Plan IOS	Brightfield semi-plan	187/230 x 140 mm rackless stage	100 to 240 V, 50/60 Hz	18.9 x 8.3 x 0" (480 x 210 x 255 mm)	25.3 lb (11.5 kg)	78904-18
Trinocular compound microscope	4/10/40/100x Plan IOS	Brightfield plan	187/230 x 140 mm rackless stage	100 to 240 V, 50/60 Hz	18.9 x 8.3 x 0" (480 x 210 x 255 mm)	25 lb (11.3 kg)	78904-21
Trinocular compound microscope	10/20/40/100x Plan Phase IOS	Phase contrast	187/230 x 140 mm rackless stage	100 to 240 V, 50/60 Hz	16 x 8.3 x 0" (407 x 210 x 255 mm)	25 lb (11.3 kg)	78904-24
Trinocular compound microscope	4/10/40/100x Plan IOS	Darkfield plan	187/230 x 140 mm rackless stage	100 to 240 V, 50/60 Hz	16 x 8.3 x 0" (407 x 210 x 255 mm)	25 lb (11.3 kg)	78904-27
Trinocular compound microscope	5/10/20/S50x Plan PLMi IOS	Metallurgical plan	150 x 140 mm mechanical rackless stage	100 to 240 V, 50/60 Hz	23 x 8.3 x 18.9" (585 x 210 x 480 mm)	23.2 lb (10.5 kg)	78904-30
Trinocular compound microscope	5/10/20/S50x Plan PLPOLRi	Polarization plan	∅ 160 mm rotatable round stage	100 to 240 V, 50/60 Hz	23.2 x 8.3 x 18.7" (590 x 210 x 475 mm)	27.1 lb (12.3 kg)	78904-33

coleparmer.com

USA:
+1.800.323.4340
+1.847.549.7600

4934

Canada: +1.800.363.5900
China: +86.21.5109.9909
France: +33 (0) 1486 37800
Germany: +49 (0) 9377 92030

India: +1.800.266.1244
Italy: +39 (0) 1313 89513
UK: +44 (0) 1480.272279
All other countries: +1.847.549.7600

Cole-Parmer®