

OPTIC80TL Trinocular Biological Microscope LED Light WF10X/18mm

Product Details

Product Number

PRO6046



Technical Specification:

Highlights

- EWF 10x/20 eyepieces (Ø 30 mm), lockable to tubes.
- Binocular Siedentopf head (30° incline), IPD 52–75 mm (48–75 mm optional) with diopter adjustment.
- Ceramic stage 156 × 138 mm with integrated 76 × 54 mm mechanical stage (rackless stage optional).
- Abbe N.A. 1.25 condenser with phase annuli slider support; darkfield stop slider available (up to 400×).
- 3 W LED NeoLED illumination with internal 100–240 V power supply; low heat and long lifetime.

Overview

OPTIC80TL is an upright biological microscope platform with infinity objective options and integrated camera variants. The system supports brightfield as standard and can be configured for economical phase contrast and darkfield (up to 400×) via optional sliders and condensers.

Key features

- Eyepieces: Extended EWF 10×/20 mm, Ø 30 mm, secured to tubes.
- Head: Binocular Siedentopf, 30° inclined; IPD 52–75 mm (48–75 mm optional); diopter adjustment.
- Nosepiece: reversed and revolving 4-position (5-position optional).
- Stage: 156 × 138 mm ceramic stage with 76 × 54 mm mechanical travel; rackless stage option 185 × 177 mm with

75 × 50 mm travel.

- Condenser: height-adjustable Abbe N.A. 1.25; phase slider capability; magnification indication; darkfield stop slider available.
- Focusing: coaxial coarse/fine; 100 graduations; 1 µm per graduation; adjustable rack stop; friction control.
- Illumination: 3 W adjustable LED NeoLED with internal 100–240 V supply; high contrast and long lifetime.

Technical specifications

EYEPIECE(S)	Extended EWF 10x/20 mm eyepieces, Ø 30 mm tubes. Eyepieces can be secured to the tubes.
HEADS	Binocular Siedentopf type head with 30° inclined tubes, interpupillary distance from 52 to 75 mm and equipped with diopter adjustment(s). (48–75 mm optional)
NOSEPIECE	Revolving and reversed nosepiece for 4 objectives (5 objectives optional)
OBJECTIVES	All optics are anti-fungus treated and anti-reflection coated for maximum light throughput. Infinity achromatic objectives: 4x/0.13, 10x/0.30, 20x/0.40, S40x/0.70, S100x/1.25 oil (Optional) Infinity E-Plan objectives: 4x/0.10, 10x/0.25, 20x/0.40, S40x/0.65, S100x/1.25 oil (Optional) Infinity plan objectives: 4x/0.10, 10x/0.25, S40x/0.65, S100x/1.25 oil (Standard), S60x/0.80 (Optional)
STAGE	156 x 138 mm ceramic stage with integrated 76 x 54 mm mechanical stage; tough ceramic surface protects against marks and scratches and prevents stray light reflection into the objective. 185 x 177 mm rackless stage with double slide holder and integrated 75 x 50 mm rackless mechanical stage; no protruding parts, smoother and safer movement (Optional)
CONDENSER FOR BRIGHT FIELD	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 infinity objectives for economical phase contrast. With magnification indication. A slider with a simple dark stop for dark field up to 400x magnification is also available.
FOCUSING	Coaxial coarse and fine adjustments, 100 graduations, 1 µm per graduation, 100 µm per rotation, total travel approximately 14 mm (most to 25 mm). Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control.

Order Code	Item	UB203id
PRO3237	Infinity Plan Achromatic Objective (Economical) 100X(S) (oil) N.A.1.25	○
PRO3238	Infinity Plan Achromatic Objective 2X	○
PRO3239	Infinity Plan Achromatic Objective 4X	●
PRO3240	Infinity Plan Achromatic Objective 10X	●
PRO3241	Infinity Plan Achromatic Objective 20X	○
PRO3242	Infinity Plan Achromatic Objective 40X (S)	●
PRO3243	Infinity Plan Achromatic Objective 60X (S)	○
PRO3244	Infinity Plan Achromatic Objective 100X (S) (Oil)	●
PRO3245	Mechanical Stage, right handed, 156X138mm, movement range 76X54mm	●
PRO3246	Rackless Stage, right handed, 185X177mm, movement range 75X50mm	○
PRO3247	Quadruple Nosepiece, inward facing	●
PRO3248	Quintuple Nosepiece, inward facing	○
PROJG2C	Abbe Condenser	●
PRO5841	Dark Filed Slide	○
PROJG10B	Dark Filed Condenser (dry)	○
PRO5843	Dark Field Condenser (oil)	○
PROKL2B	Kohler Illuminator (No field diaphragm)	○
PROKL3A	Kohler Illuminator (with field diaphragm)	●
PRO2951	for 6V 20W Halogen Lamps	○
PRO2952	for 6V 30W Halogen Lamps	○
PRO3249	3W LED Electric Device (with Rechargeable Batteries)	○
PRO3250	3W LED Electric Device	●
PRO3152	0.5X C-Mount	○
PRO3253	1X C-Mount	○
PRO3153	0.65X C-Mount	○
PROW35	Adapter for Nikon DSLR	○

Order Code	Item	UB203id
PROW34	Adapter for Cannon DSLR	○
PRO0011	Blue Filter (φ38) (LED Lamp without Filter)	○
PRO0011	Green Filter (φ38)	○
PRO0011	Yellow Filter (φ38)	○
PRO0011	Ground Glass (φ38)	○
PRO0022	6V 20W Halogen Lamp	○
PRO0023	250V/3.15A Φ5X20 fuse	●●●
PRO0022B	6V 30W Halogen Lamp	○
PRO0022C	6V 30W Osram Halogen Lamp	○
PRODQL2B	3W LED Lamps	●
PRO0027	Immersion Oil	●
PROWJ	Dust Cover	●
PRO0018	φ2mm Allen screw driver	●
PRO0021	Power Cord	●

● Standard configuration ○ Optional configuration

Included items (typ.)

- Power cord, dust cover, spare fuse, user manual.
- 4 ml immersion oil for models with S100x objective.
- Packed in high-quality foam and carton.

Accessories: