



ACS Material Equipment Series

OptiPro™ TL36 Series Biological Microscope

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I. Product Introduction

The TL36 Series Biological Microscope is equipped with infinity plan achromatic objectives and wide-field eyepieces. It features an attractive appearance, clear imaging, wide field of view, and easy operation. This microscope is widely used in biology, medicine, industry, and agriculture, making it an ideal instrument for medical, educational, and research institutions.



Photo of EOBTL36A

II. Product Advantages

- 1) This machine offers a significant improvement in imaging quality over older models, with a sleek and innovative appearance. The streamlined design and customizable color options make it an essential instrument for teaching and laboratory use;
- 2) Adopting an excellent optical system, it provides superior optical performance;
- 3) The streamlined design concept, combined with soft and novel color schemes, enhances the microscope's aesthetic appeal;
- 4) An ergonomic design makes operation more convenient and comfortable, offering a more spacious working area.

III. Product Parameters

Product Name	OptiPro™ TL36 Series Biological Microscope
Model	EOBTL36A
	EOBTL36B

	EOBTL36M	
	EOBTL36P	
Specification Configuration	EOBTL36A	Binocular observation head, 45° tilt, 360 degrees can be rotated, pupil distance can be adjusted, adjustment range 50-75mm
	EOBTL36B	Trinocular observation head, 45° tilt, 360 degrees can be rotated, pupil distance can be adjusted, adjustment range 50-75mm.
	EOBTL36M	Trinocular viewing head with 6.3-megapixel imaging system CMOS camera
	EOBTL36P	Trinocular viewing head, equipped with 10.1-inch integrated flat panel display
Optical System	Equipped with an infinite plan optical system, anti-mold design, and wide field eyepieces.	
Observation Head Device	<ul style="list-style-type: none"> • Can rotate 360 degrees with a maximum image center shift of $\leq 0.06\text{mm}$ during rotation • Features a 30° tilt; hinged binocular observation (magnification difference between left and right systems $\leq 2.0\%$; eyepiece position difference at zero diopter $\leq 0.1\text{mm}$) • Third-party connection port. • Interpupillary distance adjustable range: 50-75mm. • Fixed observation tube head with hex screws or portable screws. 	
Eyepiece Configuration	<ul style="list-style-type: none"> • Equipped with high-eye-point eyepieces WF10X/22mm • Eyepiece magnification accuracy within $\pm 2\%$ • Eyepiece tube with slot design to prevent falling out • Adjustable diopters for easier observation 	
Objectives	<ul style="list-style-type: none"> • Broadband-coated EF-N195 pure copper infinite plan achromatic objectives • Objective magnification accuracy within $\pm 5\%$ • Magnifications: 4X, 10X, 40X (spring), 100X (spring, oil) • Parfocality error: $\leq 0.06\text{mm}$ (10-40X), $\leq 0.03\text{mm}$ (40-100X) 	
Stage	<ul style="list-style-type: none"> • XY mechanical stage • Repeatability: ≤ 0.005 under 5N lateral force • Corrosion- and wear-resistant • Dimensions: 190X140mm • Travel range: 60×90mm • Minimum reading: 0.1mm 	
Focusing Mechanism	<ul style="list-style-type: none"> • Coaxial adjustment • Coarse and fine knobs with overload protection • Micro-focus on both sides • Focusing range: 25mm • Minimum increment: 0.002mm 	
Illumination	<ul style="list-style-type: none"> • 3W LED cold light source • Rechargeable via Type C • Adjustable brightness • Lifespan: >100,000 hours <p>(Note: The collector lens seat should not be easily removed to prevent misalignment of the optical path.)</p>	

Converter	<ul style="list-style-type: none"> • Metal four-hole inclined nosepiece • Positioning stability: $\leq 0.006\text{mm}$ (Note: No need to raise or lower the stage when changing slides, preventing potential damage to the objectives during use.)
Back Plate	Portable handle for easy relocation.
Additional Features	Pre-configured for phase contrast, dark field, and simple polarized light observation.
Camera Interface Configuration	Dedicated C-mount and digital camera-specific interface.
Eyepiece	Wide-angle eyepiece WF10X, field of view 22mm, optional WF16X, WF25X
Nosepiece	Quadruple Revolving Nosepiece
Objective	Flat field achromatic objective at infinite distance, 4X, 10X, 40X, 100X(oil)
Condenser	ABBE N.A.1.25 Condenser with Iris Diaphragm & Blue Filter
Stage	Double Layer Mechanical Stage, Size 1190X140mm, Moving Range :60mm×90mm
Focusing	Coarse and Fine Focusing, Minimum focusing range: 0.02 mm
Light Source	3W LED, with Rechargeable Battery, Type C USB cable
Attachments	Dust bag, Type C power cord
Select Accessories	Dark field condenser

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