

## ZZX-2108TW Series Biological Microscope



## I. Overview:

The overall structure is designed to be compact yet rigid. The through-type side wings on both sides of the frame not only serve as decorative elements but also give the entire instrument a dynamic appearance. The side wings are adorned with vibrant blue decorative pieces (other colors are optional), adding to the rich color scheme. The curved arm features a hollow design, reducing weight while conforming to ergonomic principles, allowing for easy one-handed handling. To accommodate varying interpupillary distances and vision of different users, the binocular eyepiece tube distance is adjustable (50mm-75mm), and one of the eyepiece tubes is equipped with a diopter adjustment ring. Coaxial coarse and fine focus knobs are symmetrically mounted on both sides of the body, allowing for convenient focusing with either hand. The coarse focus knob tension is adjustable, and the fine focus knob has a precision of 0.002mm. A mechanical upper limit stop structure ensures that the specimen and objective lens do not come into contact. The ZZX-2108W series biological microscope is designed to meet the needs of modern biological teaching, basic medical applications, and various research fields.

## II. Technical Specifications:

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Optical system	Infinity-corrected achromatic optical system
observation tube	30 ° inclined, hinged trinocular observation head, interpupillary distance adjustment: 50mm-75mm, single-sided diopter adjustment, fixed beam splitter R:T:80:20
eyepiece	Eyepieces: WF10X/18mm (standard), WF16X/15mm (optional)
objective lens	Infinity-corrected achromatic objective lenses (4X, 10X, 40X, 100X)
Converter	Internal positioning four-hole adapter
Focusing mechanism	Low-profile design with coarse and fine coaxial adjustment; coarse adjustment range of 25mm, fine adjustment accuracy of 0.002mm; features an anti-slip tension adjustment mechanism and a mechanical upper limit stop.
stage (of a microscope)	155mm x 142mm double-layer composite mechanical moving platform, movement range: 76mm x 50mm; accuracy: 0.1mm
condensing lens	Abbe condenser, numerical aperture N.A. 1.25, with variable aperture diaphragm.
lighting system	3W LED lighting, centrally controlled, with continuously adjustable brightness; external wide-voltage adapter, input 100V-240V AC 50/60Hz, output DC 12V 2A.
Other accessories	Camera eyepiece: 0.5X (standard), 0.35X, 1X (optional)