



# LABOMED, INC.

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## LB-284 Advanced Research Trinocular Biological Microscope with Plan Semi-Apochromatic Fluorescent Objectives

### Features

1. High eye point wide field plan eyepiece.  
The eyepiece field of view has been upgraded from traditional 22mm to 25mm and 26.5mm, to provide a more flat field of view and to improve working efficiency. With a wider diopter adjustment range and foldable rubber eye guard.
2. Viewing head with multi-splitting ratio.  
The viewing head is designed of multiple options for splitting ratio.
  - (1) Trinocular head with inverted image, splitting ratio Binocular: Trinocular= 100:0 or 20:80 or 0:100 is standard. Except for concentrating 100% light to eyepiece tube or camera tube, there is another option with 20% light to eyepiece tube and 80% to camera tube, so that eyepiece observation and image output can be available at the same time.
  - (2) Trinocular head with erected image, splitting ratio Binocular:Trinocular= 100:0 or 0:100 is optional. The moving direction of samples is the same as observed.
3. Large size rackless stage for both hands.  
Large stage with adjustment in either hand In order to correct the hidden danger of horizon guide rail, the stage is designed with double-way linear driving mechanism. This change protects the stage from overload at the end of both rails, improves the reliability and performance of the stage.  
  
The handle of the stage can be set at each side based on users' preference. The X, Y biaxial adjustment are designed with low position for comfortable operation.  
  
Two slides can be hold on the stage by using damping-type double clips, easy for comparative study. Moving range: 80mm X55mm; precision: 0.1mm. Processed with special craft, the surface of the stage is anti-corrosive and anti-friction. The platform with an arc transition design reduces the stress concentration and damage from impact.
4. Modular frame, improve the system compatibility.  
With modularization design, separated cross arm and main body, improves the system compatibility of biological and fluorescence frame.
5. Highly sensitive coaxial coarse and fine adjustment system.  
Coaxial adjustment adopts double-stage driving, with adjustable tension tightness and upper limit stop, coarse range is 25mm and fine precision is 1 $\mu$ m. Not only accurately focus, but also precision measurement is available.

