



# BIOLOGICAL MICROSCOPE

**LBM-A & B Series**

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Biological microscope LBM-A1 series is easy to operate. Biological Microscope is useful for fine & coarse focusing of specimens very quickly & sharply. With 3W LED light for illumination purpose, it is an essential tool for routine microscopic analysis, basic research.

## Features

- ❖ Sliding and Siedentopf type binocular head
- ❖ Abbe N.A. 1.25 condenser with iris diaphragm & filter
- ❖ WF10X as eyepiece
- ❖ Quadruple nosepiece, quick-stop
- ❖ Double layer & wire movement mechanical fixed stage

## Applications

Biological microscope can be used for routine microscopic analysis of samples in research laboratories, schools, institutes and colleges.

## Specifications

Model No.	LBM-A10	LBM-A11
Optical System	Finite Optical System	
Viewing Head	Sliding type binocular head, inclined at 45°	Siedentopf binocular head, inclined at 30°C, interpupillary distance range 48-75mm, eyepiece tube rotation 360°
Eyepiece	WF10X	WF10X/18 mm
Nosepiece	Quadruple, click-stop	
Objective	Achromatic objective 4x, 10x, 40x(s), 100x(s,oil)	
Stage	Double layer mechanical stage: 140×132 mm and moving: 75×45 mm	
Focusing	Coaxial coarse & fine adjustment, focusing range 30mm, focusing interval 0.002 mm	
Condenser	Abbe N.A. 1.25 condenser with iris diaphragm & filter	
Illumination	3W LED, 6V/20W Halogen lamp, adjustable brightness	3W LED, adjustable brightness
Standard Accessories	Yes	No
Dimension	320×270×430 mm	350×245×460 mm
Net weight	5.5 kg	5.0 kg
Gross weight	6 kg	7 kg

**Standard Accessories Only for LBM-A10**

Accessories No.	Name
	6V/20W spare halogen lamp
	BGX1-20(1A) fuse
	Blue filter
	Immersion oil
	Dust cover

**Optional Accessories**

Accessories No.	Name
1	Phase contrast kit (10x, 20x, 40x, 100x)
2	Dark field condenser
3	Eyepiece WF16X

Biological microscope LBM-A12 is easy to operate. It comes with sidentopf type binocular head with interpupillary distance of 48-75mm range. It is useful for fine & coarse focusing of specimen. It's an essential tool for scientist in the research. It uses halogen lamp as source of illumination. It is used for biological research studies.

## Features

- ❖ Sidentopf type binocular head
- ❖ Interpupillary distance range 48-75mm
- ❖ Achromatic objective 4x, 10x, 40x(s), 100x(s, oil)
- ❖ Quadruple, Click-stop nosepiece
- ❖ 6V/20W Halogen lamp/ 3W LED as a source of illumination

## Applications

Biological microscope can be used for routine microscopic analysis of samples in research laboratories, schools, institutes and colleges.

## Specifications

Model No.	LBM-A12
Optical System	Finite Optical System
Viewing Head	Sidentopf binocular head, interpupillary distance range 48-75mm, eyepiece tube rotation 360°
Eyepiece	WF10X
Nosepiece	Quadruple, Click-stop
Objective	Achromatic objective 4x, 10x, 40x(s), 100x(s,oil)
Stage	Double layer mechanical stage: 140×132 mm and moving: 75×45 mm
Focusing	Coaxial coarse & fine adjustment, focusing range 30mm, Focusing interval 0.002 mm
Condenser	Abbe N.A. 1.25 condenser with Iris diaphragm & filter
Illumination	6V/20W Halogen lamp or 3W LED, adjustable brightness
Standard Accessories	Yes
Dimension	320×270×430 mm
Net weight	5.5 kg
Gross weight	6 kg

**Standard Accessories**

Accessories No.	Name
1	6V/20W spare halogen lamp
2	BGX1-20(1A) fuse
3	Blue filter
4	Immersion oil
5	Dust cover

**Optional Accessories**

Accessories No.	Name
1	Phase contrast kit (10x, 20x, 40x, 100x)
2	Dark field condenser
3	Eyepiece WF16X

Biological microscope LBM-B1 series is easy to operate. With backward nosepiece design, it's coarse and fine focusing adjustment helps in better observation of the specimen. The microscope comes with 3W LED as external source of illumination. Being compact and light in weight, it is perfect for routine microscopic analysis at research institutes, colleges.

## Features

- ❖ Backward quadruple nosepiece
- ❖ Finite & infinite optical system
- ❖ 3W LED as source of illumination
- ❖ Wide field and high eye point wide field eyepiece

## Applications

Biological Microscope can be used for routine microscopic analysis of samples in laboratories, institutes, colleges. They are used in research labs for obtaining fine and sharp image quality with superior adjustment.

## Specifications

Model No	LBM-B10	LBM-B11	LBM-B12
Optical System	Finite optical system	Infinite optical system	
Viewing Head	Siedentopf Binocular viewing head, Interpupillary distance range 48-75 mm, Inclined at 30°		Binocular viewing head Inclined at 30° Interpupillary distance range 54-75 mm,
Eyepiece	Wide Field Eyepiece WF10X/F.N. 20 mm	Wide Field Eyepiece WF10X/F.N. 22 mm	High eye point wide field eyepiece PL10X/20 mm with ±5 degrees diopter control
Nosepiece	Backward quadruple nosepiece		
Objective	Finite achromatic objectives: 4x, 10x, 40x, 100x	Infinite high contrast chromatic free full plan, Objectives: 4x, 10x, 40x, 100x	Infinite plan achromatic objective: 4x, 10x, 40x(s), 100x(s,oil)

## Biological Microscope LBM-B1 Series

Stage	Double layer mechanical stage: 140×132 mm Moving range: 75×45 mm	Double layer mechanical stage: 216×150 mm, Graphite surface Moving range: 75×55 mm	Coaxial Double layer mechanical stage: 140×132 mm Moving range: 76×50 mm
Focusing	Coaxial coarse & fine adjustment, Fine division 0.001 mm, Coarse stroke 37.7 mm/Rotation, Fine stroke 0.1 mm/Rotation, Moving range 24 mm		Coaxial coarse & fine adjustment with limited & tension adjustment. Coarse adjustment range: 25 mm, fine adjustment precision: 0.002 mm
Condenser	Abbe N.A. 1.25 condenser with Diaphragm		N.A. 1.25 condenser (with socket for phase contrast & dark field sliders)
Illumination	External Illumination 3W /LED	External Illumination 3W /LED (Kohler)	Main supply 100~240V, 3W LED lamp with intensity control (fixed center)
Dimension	530×325×390 mm		600×600×300 mm
Net weight	7 kg	7 kg	9 kg
Gross weight	9 kg	9 kg	10 kg

### Optional Accessories For LBM-B10, LBM-B11

Accessories No.	Name
1	Eyepiece WF20X/12 mm
2	Eyepiece: EW15X/16 mm
3	Phase contrast kit (10x, 20x, 40x, 100x)
4	Dark field attachment
5	Siedentopf Trinocular Head
6	C mount 0.5 X adapter

### Optional accessories For LBM-B12

Accessories No.	Name
1	Phase contrast kit (10x, 20x, 40x, 100x)
2	Dark field attachment
3	Siedentopf Trinocular Head
4	Simple polarization (with analyzer & polarizer)