

B1

Advanced Biological Microscope Series

Superior in design and in performance, the **B1 Series** incorporates a wide range of features designed for university and laboratory use. Superb optical clarity and reliable mechanical engineering assures years of top performance. Choose from two grades of objectives: **Standard Achromatic** lenses deliver excellent clarity and normal flatness of field, while the **ASC Achromatic Super Contrast objectives** deliver extra contrast to the image. Combined with precision coaxial coarse and fine focusing adjustments, the **B1** models are exceptionally high quality microscopes available within a tight budget.

Model B1-211 A

Model B1-220 A

Model B1-223 A

- 45° Inclined Monocular (B1-211A) and Binocular (B1-220A) or 30° inclined Trinocular (B1-223A) head, rotates 360°
- Widefield eyepieces 10X/18mm
- Revolving quadruple nosepiece for smooth changes in magnification
- Parfocal and Parcentric DIN Plan Achromatic objective, 4X/0.10; DIN Achromatic objectives 10X/0.24, 40X/0.65 – Spring, 100X/1.25 – Spring/Oil.
- Coaxial coarse and fine focusing adjustment in 2 micron increments with upper limit stop to prevent damage to slide or objective
- Vertical travel range 27mm
- Tension adjustment to prevent stage drift
- Large 140mm x 135mm mechanical stage with low-position coaxial controls. Travel range 78x50mm
- Rack & Pinion mounted 1.25NA Abbe Condenser with iris diaphragm and filter holder
- 12V/20W Halogen illumination with light intensity adjustment.

BEST SELLER



B1-220A

B1

Advanced Biological Microscope Series

Achromatic
Super
Contrast
objectives

ASC
extra contrast
to the image

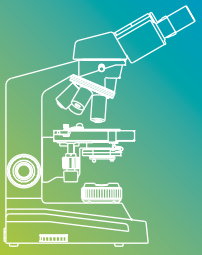
Model B1-220 ASC

Model B1-223 ASC

- 45° Inclined Binocular (B1-220ASC) or 30° inclined Trinocular (B1-223ASC) head, rotates 360°
- Widefield eyepieces 10X/20mm
- Revolving quadruple nosepiece for smooth changes in magnification
- Achromatic Super Contrast objectives, parfocal and parcentric 4X/0.10, 10X/0.24, 40X/0.65 – Spring, 100X/1.25 – Spring/Oil
- Coaxial coarse and fine focusing adjustment in 2 micron increments with upper limit stop to prevent damage to slide or objective
- Vertical travel range 27mm
- Tension adjustment to prevent stage drift
- Large 140mm x 135mm mechanical stage with low-position coaxial controls. Travel range 78x50mm
- Rack & Pinion mounted 1.25NA Abbe Condenser with iris diaphragm and filter holder
- 12V/20W Halogen illumination with light intensity adjustment



B1-220ASC



B3

Professional Biological Microscope Series

As a natural progression of the popular B1 series, the **more advanced B3 series** offers features for the more demanding user. A standard **Siedentopf** head configuration allows for interpupillary distance adjustment without the need for refocusing. The superior **Koehler Illumination system** offers ample illumination, making this series ideal for Lab work. Combined with either **ASC Achromatic Super Contrast** or **Plan Achromatic objectives**, this series have an unbeatable price-quality ratio.

Model B3-220 ASC

Model B3-223 ASC

- 30° Inclined Binocular (B3-220ASC) or Trinocular (B3-223ASC) Siedentopf head, rotates 360°
- Widefield eyepieces 10X/20mm with diopter adjustment on the left eyetube
- Revolving quintuple reverse-mounted nosepiece for smooth changes in magnification
- Parfocal and Parcentric Objectives Achromatic Super Contrast 4X/0.10, 10X/0.24, 40X/0.65 – Spring, 100X/1.25 – Spring/Oil
- Coaxial coarse and fine focusing adjustment in 2 micron increments with upper limit stop to prevent damage to slide or objective
- Vertical travel range 27mm
- Tension adjustment to prevent stage drift
- Large 140mm x 135mm mechanical stage with low-position coaxial controls. Travel range 78x50mm
- Rack & Pinion mounted 1.25NA Abbe Condenser with iris diaphragm and filter holder
- 12V/20W Halogen Koehler illumination with light intensity adjustment



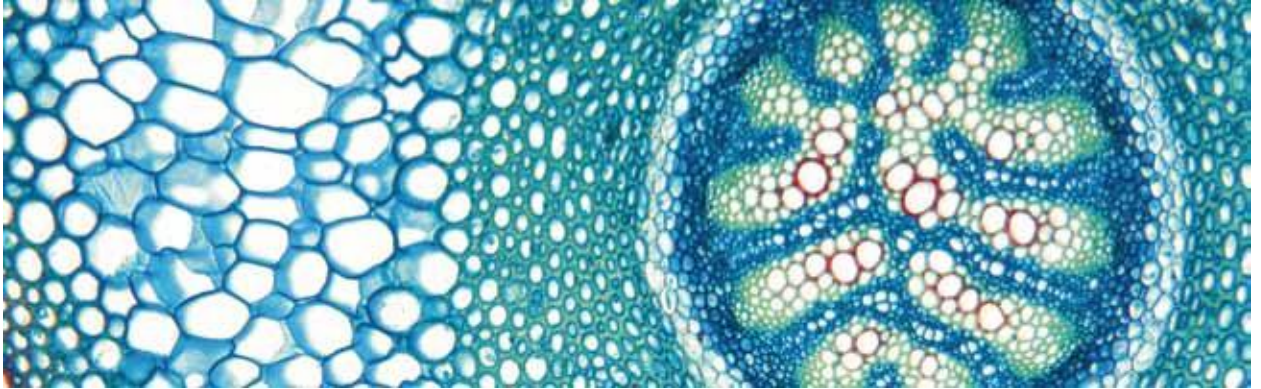
B3-220ASC



B3-223ASC

B3

Professional Biological Microscope Series



Model B3-220 PL

Model B3-223 PL

- 30° Inclined Binocular (B3-220PL) or Trinocular (B3-223PL) Siedentopf head, rotates 360°
- Widefield eyepieces 10X/20mm with diopter adjustment on the left eyetube
- Revolving quintuple reverse-mounted nosepiece for smooth changes in magnification
- Parfocal and Parcentric Objectives Plan Achromatic 4X/0.10, 10X/0.24, 40X/0.65 – Spring, 100X/1.25 – Spring/Oil
- Coaxial coarse and fine focusing adjustment in 2 micron increments with upper limit stop to prevent damage to slide or objective
- Vertical travel range 27mm
- Tension adjustment to prevent stage drift
- Large 140mm x 135mm mechanical stage with low-position coaxial controls. Travel range 78x50mm
- Rack & Pinion mounted 1.25NA Abbe Condenser with iris diaphragm and filter holder
- 12V/20W Halogen Koehler illumination with light intensity adjustment



B3-220PL



B3-223PL

B1

Eyepieces

Huygens eyepiece H5X / 14.5 mm
Widefield eyepiece WF10X / 18 mm
Widefield eyepiece WF15X / 12 mm
Widefield eyepiece WF20X / 11 mm

Micrometer eyepieces

Micrometer eyepiece WF10X / 18mm,
100 divisions in 10 mm
Reticle 19 mm (for 18 mm eyepiece),
100 divisions in 10 mm
Reticle holder

Achromatic objectives A

Achromatic objective 4X / 0.10
Achromatic objective 10X / 0.25
Achromatic objective 20X / 0.40
Achromatic objective 40X / 0.65 / S
Achromatic objective 60X / 0.85 / S
Achromatic objective 100X / 1.25 / S-Oil

Achromatic super contrast objectives (ASC)

Achromatic Super Contrast Objective ASC 4X / 0.10
Achromatic Super Contrast Objective ASC 10X / 0.25
Achromatic Super Contrast Objective ASC 40X / 0.65 / S
Achromatic Super Contrast Objective ASC 100X / 1.25 / S-Oil

Plan phase objective - PL PH

Plan Phase objective PL PH 10X / 0.25
Plan Phase objective PL PH 40X / 0.65 / S

Phase contrast and darkfield accessories

10X phase contrast attachment (simple plug in type)
40X phase contrast attachment (simple plug in type)
Centering telescope
Darkfield attachment (simple plug in type)

Polarizing accessories

Polarizing Set B.208
Polarizing Set B. 208NT (without rotating table)

Photo and C-mount camera adapters

2.5X SLR Projection Lens
4X SLR Projection Lens
0.5X C-mount camera adapter for 1/3" chip sensors
0.6X C-mount camera adapter for 1/2" chip sensors
1X C-mount camera adapter (no lens)

Spare parts

Blue filter
Green filter
Yellow filter
Eyecups (pair)
Dust cover (size C)
Mirror and fork attachment
Aluminium box

Spare bulbs

Halogen bulb 12V / 20W

B3

Eyepieces

Huygens eyepiece H5X / 14.5 mm
Widefield eyepiece WF10X / 20 mm
Widefield eyepiece WF15X / 12 mm
Widefield eyepiece WF20X / 11 mm

Micrometer eyepieces

Micrometer eyepiece 10X / 20mm,
100 divisions in 10 mm
Reticle (for 20 mm eyepiece),
100 divisions in 10 mm
Reticle holder

Achromatic super contrast objectives (ASC)

Achromatic Super Contrast Objective ASC 4X / 0.10
Achromatic Super Contrast Objective ASC 10X / 0.25
Achromatic Super Contrast Objective ASC 40X / 0.65 / S
Achromatic Super Contrast Objective ASC 100X / 1.25 / S-Oil

Plan objectives - PL

Plan objective PL 4X / 0.10
Plan objective PL 10X / 0.25
Plan objective PL 20X / 0.40
Plan objective PL 40X / 0.65 / S
Plan objective PL 60X / 0.85 / S
Plan objective PL 100X / 1.25 / S-Oil

Plan phase objective - PL PH

Plan Phase objective PL PH 10X / 0.25
Plan Phase objective PL PH 40X / 0.65 / S
Plan Phase objective PL PH 100X / 1.25 / S-Oil

Phase contrast and darkfield accessories

10X phase contrast attachment (simple plug in type)
40X phase contrast attachment (simple plug in type)
Centering telescope
Special 5-hole turret type Abbe condenser 1.25 N.A.
with choices for phase contrast 10X, 20X, 40X, 100X
and brightfield
Complete phase contrast set including:
plan objectives PL PH 10X, 20X, 40X S and 100X-S / Oil,
turret type Abbe condenser 1.25 N.A. and centering telescope.
Darkfield attachment (simple plug in type)

Polarizing accessories

Polarizing Set B.209

Photo and C-mount camera adapters

2.5X SLR Projection Lens
4X SLR Projection Lens
0.5X C-mount camera adapter for 1/3" chip sensors
0.6X C-mount camera adapter for 1/2" chip sensors

Spare parts

Blue filter (ø 45mm)
Green filter (ø 45mm)
Yellow filter (ø 45mm)
Frosted filter (ø 45mm)
Eyecups (pair)
Dust cover (size C)
Aluminium box

Spare bulbs

Halogen bulb 12V / 20W