

# BIOLOGICAL MICROSCOPES

## BOECO LABORATORY BINOCULAR MICROSCOPE MODEL BM-800

### Specification BM-800:

**Optical System:** Infinity corrected system, field diameter 22 mm  
**Viewing Head:** Bin- or Trinocular compensation free Head, 30° inclined, 360° rotatable, Interpupillary Distance 48 - 75 mm  
**Nosepiece:** Backward quintuple revolving nosepiece  
**Eyepiece:** Larger viewing area with extra wide field eyepiece EWF 10X /22 mm  
**Objectives:** BOECO Infinity corrected Plan Achromat Objectives 4x/0.10, 10x/0.25, 40x/0.65 (S), 100x/1.25 (S, Oil)  
**Stage:** Large sized double layer mechanical specimen stage. 185 x 142 mm, Moving range 75 x 55 mm,  
**Focusing:** Coaxial coarse and calibrated fine focus control, graduated 0,001 mm, Safety autofocus stop unit.  
**Condenser:** Swing condenser, N.A. 0,9/0,25,  
**Field diaphragm:** With aspherical condenser and Köhler Illumination  
**Illumination:** 6V 30W external Halogen lamp, light intensity adjustable.  
**Body / power:** Modern and ergonomic body made from die-cast aluminium with inbuilt power supply  
**Supplied with:** Dust cover, immersion oil, 1 spare halogen bulb, green + blue filter and instruction manual  
**Dimension:** 280 x 358 x 304/416 mm

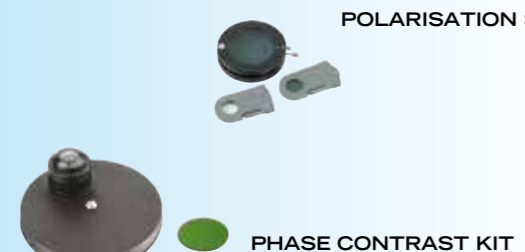
Code	Description
BOE 8000.550	Model BM-800/I/PL, 220V 50/60 Hz
BOE 8000.551	Model BM-800/I/PL, 110V 60 Hz
BOE 8000.560	Model BM-800/T/I/PL, 220V 50/60 Hz
BOE 8000.561	Model BM-800/T/I/PL, 110V 60 Hz

### Accessories

Code	Description
BOE 8000.301	EWF eyepiece 10X/22
BOE 8000.302	EWF eyepiece 10x/22 with pointer
BOE 8000.303	EWF eyepiece 10x/22 with micrometer
BOE 1800.552	BOECO Infinity E Plan Achrom. Objective 4X
BOE 1800.553	BOECO Infinity E Plan Achrom. Objective 10X
BOE 1800.559	BOECO Infinity E Plan Achrom. Objective 20X
BOE 1800.554	BOECO Infinity E Plan Achrom. Objective 40X (S)
BOE 1800.555	BOECO Infinity E Plan Achrom. Objective 100X (S/Oil)
BOE 8000.305	Dark Field Condenser (Dry) NA 0,9
BOE 8000.306	Dark Field Condenser (Oil) NA 1,25-1,36
BOE 8000.325	Simple Polarization set
BOE 8000.802	1x Video Attachment with C mount
BOE 8000.903	Turret Annular Phase Contrast Kit, consisting of: Phase Contrast Infinity Plan-achromatic Objectives 10X,20X(S), 40X(S), 100X(S,Oil), Turret Annular Phase, Contrast Condenser, Centering Telescope, Green Filter
BOE 8000.906	Epi-Fluorescent Attachment B (Blue) BP460-490, G (Green) BP 510-550 Exciting Light Filter system, O Ordinary Light System, 100WHBO Ultra Hi-voltage Spherical Mercury Lamp, Barrier to resist the Ultraviolet light, Power Supply with Digital Display, AC Input 220V/110V
BOE 8000.923	Infinity Plan Fluorescence Free Obj. 4X
BOE 8000.924	Infinity Plan Fluorescence Free Obj. 10X
BOE 8000.925	Infinity Plan Fluorescence Free Obj. 20X
BOE 8000.926	Infinity Plan Fluorescence Free Obj. 40X
BOE 8000.927	Infinity Plan Fluorescence Free Obj. 100X
BOE 8000.908	U (ultraviolet) BP330-385 Exciting light filter system
BOE 8000.909	V (violet) BP400-410 Exciting light filter system



POLARISATION SET



PHASE CONTRAST KIT



EPI-FLUORESCENT ATTACHMENT

## BOECO INVERTED BIOLOGICAL MICROSCOPE MODEL BIB-100

### Specification BIB-100:

**Optical System:** Infinity corrected system, field diameter 22 mm  
**Viewing Head:** Bin- or Trinocular Head, 30° inclined, 360° rotatable, Interpupillary Distance 48 - 75 mm  
**Nosepiece:** Quintuple revolving nosepiece  
**Eyepiece:** High-point, Extra Wide Field Eyepiece EW 10X /22 mm  
**Objectives:** LWD Infinity corrected Plan Achromat Objective 4X/0,1 WD 2.6 mm  
 LWD Infinity corrected Plan Achromat Objective 40X/0,8 WD 18 mm  
 Infinity corrected Plan Achromat Phase Objective 10X/0,25 WD 10 mm  
 Infinity corrected Plan Achromat Phase Objective 20X/0,4 WD 5.1 mm  
**Condenser:** ELWD condenser NA 0.3. LWD 72 mm (without condenser 150 mm)  
**Centering:** Centering Telescope 30 mm diam. Telescope Phase Annulus 10X -20X Phase Annulus Plate  
**Stage:** Plain Stage 160 x 250 mm, Glass Insert Auxiliary Stage 70 x 180 mm Attachable Mechanical Ruler  
**Focusing:** Coaxial coarse and fine adjustment. Vertical objective movement, Coarses stroke 37.7 mm per rotation, Fine Stroke: 0,2 mm per Rotation  
**Filter:** Diameter 45 mm, Blue, Green and Ground Glass  
**Illumination:** 6V 30W Halogen lamp, light intensity adjustable.  
**Body / power:** Innovative stand structure with inbuilt power supply  
**Supplied with:** Dust cover, immersion oil, 1 spare halogen bulb and instruction manual

Code	Description
BOE 5000.900	Model BIB-100, 220V 50/60 Hz
BOE 5000.901	Model BIB-100, 110V 60 Hz
BOE 5000.930	Model BIB-100/T, 220V 50/60 Hz
BOE 5000.931	Model BIB-100/T, 110V 60 Hz

### Optional Accessories

Code	Description
BOE 5000.220	Terasaki Holder
BOE 5000.221	38 mm diam. Petri dish holder
BOE 5000.222	54 mm diam. Slide glass holder

BOE 5000.906 Inverted Fluorescent Attachment for BIB-100, without objectives



HOLDER



## BOECO BINOCULAR MICROSCOPE MODEL BM-700

Our new advanced biological Microscope for educational, teaching, life science and clinical applications. The Anti-Fungus treatment protects the optical system, objectives and eyepieces in high-humidity environments. The new designed F=200 mm Infinite Plan achromatic objectives provide a fully corrected image for clear visual and digital results.

### Specification BM-700:

**Optical Head:** Seidentopf Binocular Head, 30° inclined, 360° rotatable, with high quality infinite optical system  
**Nosepiece:** Backward quadruple revolving nosepiece  
**Eyepiece:** Pair Eyepiece WF 10X /20 mm, diopter adjustable, with anti fungus treatment, Interpupillary Distance 47-75 mm  
**Objectives:** BOECO Anti Fungus Infinite Plan Achromat Objectives 4x, 10x, 40x (S), 100x (S) (Oil)  
**Stage:** Double layer mechanical specimen stage. 216 x 150 mm Travel area 78 x 54 mm, Right hand stage handle  
**Focusing:** Low position, coaxial coarse and calibrated fine focus control, with graduation reading 2 microns per division. Total focusing range 20 mm, Safety autofocus stop unit.  
**Condenser:** Sliding-in centerable Bright field condenser, n.A. 1,25, Integrated Iris diaphragm and filter tray.  
**Illumination:** S LED lamp, light intensity adjustable.  
**Body /power:** Sturdy body with supportive rubber and inbuilt power supply 100 - 240V  
**Supplied with:** Dust cover, green filter, immersion oil and instruction manual  
**Dimension:** 230 x 376 x 406 mm  
**Weight:** Netweight 8 kgs, Grossweight 9 kg  
**Packing:** styrofoam shelf in a cardboard box



BACK HANDLE / POWER CORD WRAP



ANTI FUNGUS TREATED OBJECTIVES



COLLECTOR AND CONDENSER



RIGHT HAND CONTROL STAGE

Code	Description	Head	Plug
BOE 7000.570	BM-700/I/PL	Binocular	Euro
BOE 7000.571	BM-700/I/PL	Binocular	US
BOE 7000.580	BM-700/T/I/PL	Trinocular	Euro
BOE 7000.581	BM-700/T/I/PL	Trinocular	US

### Objectives for BM-700

Code	Description
BOE 7000.552	BOECO Infinity Plan Achromatic AF Obj. 4X
BOE 7000.553	BOECO Infinity Plan Achromatic AF Obj. 10X
BOE 7000.559	BOECO Infinity Plan Achromatic AF Obj. 20X
BOE 7000.554	BOECO Infinity Plan Achromatic AF Obj. 40X (S)
BOE 7000.555	BOECO Infinity Plan Achromatic AF Obj. 100X (S) (Oil)



### Accessories for BM-700

Code	Description
BOE 7000.303	WF eyepiece 10x/20 with Micrometer
BOE 7000.302	WF eyepiece 10x/20 with Pointer
BOE 7000.307	WF eyepiece 10x/22
BOE 7000.304	Eyepiece 15x/16
BOE 7000.702	Collector, Field Iris Diaphragm and Auxiliary Lens for Koehler Illumination
BOE 7000.305	Dark Field Condenser (Dry) NA 0,9
BOE 7000.306	Dark Field Condenser (Oil) NA 1,36-1,25
BOE 7000.325	Polarization attachment
BOE 7000.903	Phase Contrast kit, dial type. Consisting of Phase Contrast Infinity Plan-achromatic Objectives 10X, 40X(S), 100X(S,Oil), Turret Annular Phase Contrast Condenser, Green Filter
BOE 7000.906	Epi-Fluorescence attachment, power supply, mercury lamp, blue and green filter
BOE 7000.907	Epi-Fluorescence attachment FL-LED, with B excitation filter (465-475 nm blue) and LED lamp



EYEPIECE WITH POINTER



EYEPIECE WITH MICROMETER



DARK FIELD CONDENSER DRY AND OIL



KOEHLER ILLUMINATION



PHASE CONTRAST CONDENSER (DIAL)



BM-700 WITH FL-LED

## BOECO BINOCULAR MICROSCOPE MODEL BM-300/I/SP

### Specification BM-300/I/SP:

**Optical Head:** Seidentopf Binocular Head, 30° inclined, 360° rotatable, with Infinity corrected optical system interpupillary Distance 48 - 75 mm  
**Nosepiece:** Backward quadruple revolving nosepiece  
**Eyepiece:** Pair Eyepiece WF 10X /18 mm Widefield  
**Objectives:** BOECO Anti Fungus Infinite Semi-plan Achromat Objectives F=180 mm: 4x, 10x, 40x (S), 100x (S) (Oil)  
**Stage:** Double layer mechanical specimen stage. 140 x 140 mm Travel area 75 x 50 mm, Right hand stage handle  
**Focusing:** Low position, coaxial coarse and calibrated fine focus control, with graduation reading 2 microns per division. Total focusing range 20 mm., Safety autofocus stop unit.  
**Condenser:** Sliding-in centerable Abbe Bright field condenser, n.A. 1,25, Integrated Iris diaphragm and filter tray. with rack & pinion height adjustment  
**Illumination:** S-LED, light intensity adjustable.  
**Body /power:** Sturdy body with supportive rubber and inbuilt power supply, 110-220V, 50/60Hz  
**Supplied with:** Dust cover, green filter, immersion oil, instruction manual  
**Dimension:** 200(W) x 397(D) x 422(H) mm  
**Weight:** Netweight 7,5 kgs, Grossweight 9,2 kg  
**Packing:** Two styrofoam shelves in a cardboard box, 335(W)x330(D)x530(H) mm

Code	Description
BOE 3000.200	Model BM-300/I/SP, Euro plug
BOE 3000.201	Model BM-300/I/SP, US plug
BOE 3000.300	Model BM-300/T/I/SP, Euro plug
BOE 3000.301	Model BM-300/T/I/SP, US plug

BOE 3000.512	BOECO Infinite Semi-Plan Achromatic AF Obj. 4X
BOE 3000.514	BOECO Infinite Semi-Plan Achromatic AF Obj. 10X
BOE 3000.519	BOECO Infinite Semi-Plan Achromatic AF Obj. 20X
BOE 3000.516	BOECO Infinite Semi-Plan Achromatic AF Obj. 40X(S)
BOE 3000.517	BOECO Infinite Semi-Plan Achromatic AF Obj. 100X (S) (Oil)



## BOECO BINOCULAR MICROSCOPE MODEL BM-180 SP

### Specification BM-180/SP:

Magnification: 40X- 1600X  
 Optical Head: Sliding Binocular Head, 45° inclined, 360° rotatable, Interpupillary Distance 55 - 75 mm  
 Nosepiece: Quadruple revolving nosepiece  
 Eyepiece: Pair Eyepiece WF 10X /18 mm Widefield  
 Pair Eyepiece P 16X  
 Objectives: BOECO Semi-plan Achromat DIN Objectives 4x/0.10, 10x/0.25, 40x/0.65 (S), 100x/1.25 (S, Oil)  
 Stage: Double layer mechanical specimen stage. 140 x 140 mm  
 Travel area 75 x 50 mm, Right hand stage handle  
 Focusing: Low position, coaxial coarse and calibrated fine focus control, with graduation reading 2 microns per division. Total focusing range 20 mm, Safety autofocus stop unit.  
 Condenser: Abbe Brightfield condenser, n.A. 1,25, Integrated Iris diaphragm and filter tray. With rack & pinion height adjustment  
 Illumination: 6V 20W Halogen, light intensity adjustable.  
 Body /power: Sturdy body with supportive rubber and inbuilt power supply 110-240V  
 Supplied with: Dust cover, blue + green filter, immersion oil, 1 spare halogen bulb and instruction manual  
 Dimension: 170(W) x 250(D) x 375(H) mm  
 Weight: Netweight 7,65 kgs, Grossweight 9,5 kg  
 Packing: Two styrofoam shelves in a cardboard box, 290(W)x330(D)x530(H) mm



TRINOCULAR MODEL BM-180/T/SP



EASY REPLACE OF LAMP



SEMI-PLAN ACHROMAT OBJECTIVES

Code	Model	Head	Plug
BOE 1800.200	BM-180/SP	Binocular, Sliding	Euro
BOE 1800.201	BM-180/SP	Binocular, Sliding	US
BOE 1800.230	BM-180/T/SP	Trinocular, Sliding	Euro
BOE 1800.231	BM-180/T/SP	Trinocular, Sliding	US

### Objectives for BM-180

Code	Description
BOE 1800.413	BOECO Black Semi-Plan Achromat DIN Obj. 4X
BOE 1800.414	BOECO Black Semi-Plan Achromat DIN Obj. 10X
BOE 1800.418	BOECO Black Semi-Plan Achromat DIN Obj. 20X
BOE 1800.415	BOECO Black Semi-Plan Achromat DIN Obj. 40X (S)
BOE 1800.416	BOECO Black Semi-Plan Achromat DIN Obj. 100X (S)(Oil)

### Eyepieces for BM-117, BM-120, BM-180, N-10

Code	Description
BOE 1800.301	Wide Field Eyepiece WF 10x, pc.
BOE 1800.302	Wide Field Eyepiece WF 10x with Pointer, pc.
BOE 1800.303	Wide Field Eyepiece WF 10x with 0,1 Micrometer, pc.
BOE 1800.304	Eyepiece P 16x, pc.

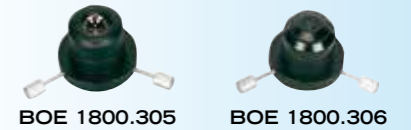
### Koehler Illumination set for BM-180

Code	Description
BOE 1800.702	Collector, Field Iris Diaphragm and Auxiliary Lens for Koehler Illumination



### Dark Field Condenser for BM-180

Code	Description
BOE 1800.305	Dark Field Condenser (Dry) NA 0,9
BOE 1800.306	Dark Field Condenser (Oil) NA 1,25-1,36
BOE 1800.412	Achromatic Objective 100X for Dark Field (Oil)
BOE 1800.417	Plan-Achromatic Objective 100X for Dark Field (Oil)



### Phase Contrast Kits for BM-180/SP

Code	Description
BOE 1800.902	Single Annular Phase Contrast Kit, consisting of: Phase Contrast Achromatic Objectives & Diaphragms PH10X, PH40X & PH100X, Centering Telescope
BOE 1800.903	Turret Annular Phase Contrast Kit, consisting of: Phase Contrast Plan-achromatic Objectives 10X, 20X(S), 40X(S), 100X(S,Oil), Turret Annular Phase Contrast Condenser, Centering Telescope, Green Filter
BOE 1800.904	Sliding Phase Contrast Kit, consisting of: Sliding Phase Contrast Condenser 10x,40x, Green Filter Achromatic Phase Contrast Objectives PH10X, PH40X, Centering Telescope



### Epi-Fluorescent Attachment for BM-180

Code	Description
BOE 1800.906	Epi-Fluorescent Attachment complete set B (Blue), G (Green) Exciting Light Filter system, O Ordinary Light System, 100WHBO Ultra Hi-voltage Spherical Mercury Lamp, Barrier to resist the Ultraviolet light, Power Supply with Digital Display, AC Input 220V/110V, Fluorescence Free Objective 4X, 10X, 40X(S), 100X(S)(Oil), Fluorescence Free Oil
BOE 1800.908	U (ultraviolet) Exciting light filter system
BOE 1800.909	V (violet) Exciting light filter system



## BOECO ROUTINE BINOCULAR MICROSCOPE MODEL BM-120

Magnification: 40X- 1000X  
 Optical Head: Compensation Free Binocular Head, 30° inclined, 360° rotatable, Interpupillary Distance 55 - 75 mm  
 Nosepiece: Quadruple revolving nosepiece  
 Eyepiece: Pair Eyepiece WF 10X /18 mm Widefield  
 Objectives: BOECO Achromat DIN Objectives 4x/0.10, 10x/0.25, 40x/0.65 (S), 100x/1.25 (S, Oil)  
 Stage: Double layer mechanical specimen stage. 140 x 140 mm  
 Travel aerea 75 x 50 mm,  
 Focusing: Coaxial coarse and Fine Focus Adjustment, Range 24mm  
 Fine Division 2 microns safety autofocus stop unit.  
 Condenser: Abbe Brightfield condenser, n.A. 1,25, Integrated iris diaphragm and filter tray. With rack & pinion height adjustment  
 Illumination: 6V 20W Halogen, light intensity adjustable.  
 Body /power: Sturdy body with supportive rubber and inbuilt power supply 110-240V  
 Supplied with: Dust cover, blue filter, immersion oil, 1 spare Halogen bulb and instruction manual  
 Dimension: 178 x 227 x 360 mm, Netweight 6,20 kg  
 Packing: 360 x 260 x 465 mm, Grossweight 7,90 kg

Code	Description
BOE 1200.100	Model BM-120, 110-240V 50/60 Hz, Euro Plug
BOE 1200.101	Model BM-120, 110-240V 50/60 Hz, US Plug
BOE 1200.005	Mirror attachment for BM-120



OPTIONAL MIRROR-ATTACHMENT