

A detailed close-up photograph of a microscope's objective and eyepiece. The metal components are polished and show fine details like threads and adjustment knobs. A vibrant rainbow light reflection is visible on the right side of the image, adding a scientific and aesthetic touch. The background is a soft, out-of-focus blue.

OPTICAL INSTRUMENTS

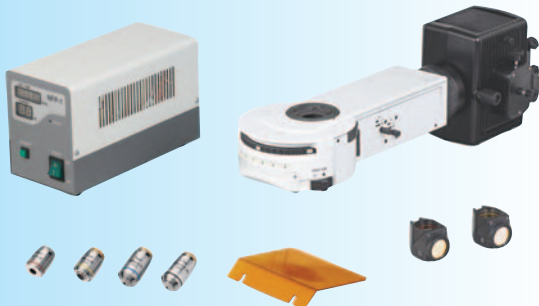
 **BOECO**
Germany

BINOCULAR MICROSCOPES

BOECO LABORATORY BINOCULAR MICROSCOPE MODEL BM-800



PHASE CONTRAST KIT



EPI-FLUORESCENT ATTACHMENT

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 Objective 4x/0.10 BOECO Infinity corrected Plan Achromat Objective 10x/0.25 BOECO Infinity corrected Plan Achromat Objective 40x/0.65, spring loaded BOECO Infinity corrected Plan Achromat Objective 100x/1.25, Oil, spring loaded
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 0,002 mm, Safety autofocus stop unit.
Condenser:	Swing condenser, N.A. 0,9/0,25,
Field diaphragm:	With aspherical condenser and Köhler Illumination
Illumination:	12V 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 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 1800.552	BOECO Infinity Plan Achromatic Objective 4X
BOE 1800.553	BOECO Infinity Plan Achromatic Objective 10X
BOE 1800.559	BOECO Infinity Plan Achromatic Objective 20X
BOE 1800.554	BOECO Infinity Plan Achromatic Objective 40X (S)
BOE 1800.555	BOECO Infinity Plan Achromatic 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 8000.903	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), G (Green) Exciting Light Filter system, O Ordinary Light System, auxiliary light filter EX 450 490, 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) Exciting light filter system
BOE 8000.909	V (violet) Exciting light filter system

BOECO BINOCULAR MICROSCOPE MODEL BM-180 SP



OUR STANDARD
MICROSCOPE FOR
SCIENTIFIC, MEDICAL
AND EDUCATION NEEDS.



BOECO SEMI-PLAN ACHROMAT DIN
OBJECTIVES



EASY REPLACE OF LAMP

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 Objective 4x/0.10
BOECO Semi-plan Achromat DIN Objective 10x/0.25
BOECO Semi-plan Achromat DIN Objective 40x/0.65, spring loaded
BOECO Semi-plan Achromat DIN Objective 100x/1.25, Oil, spring loaded
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: Abbè 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

Art.No	Model	Head	Objective type	Objective Magnification	Voltage
BOE 1800.200	BM-180/SP	Binocular, Sliding	Semi-plan-Achromatic	4X, 10X, 40X, 100X (Oil)	220 V
BOE 1800.201	BM-180/SP	Binocular, Sliding	Semi-plan-Achromatic	4X, 10X, 40X, 100X (Oil)	110 V
BOE 1800.230	BM-180/T/SP	Trinocular, Sliding	Semi-plan-Achromatic	4X, 10X, 40X, 100X (Oil)	220 V
BOE 1800.231	BM-180/T/SP	Trinocular, Sliding	Semi-plan-Achromatic	4X, 10X, 40X, 100X (Oil)	110 V

BOE 1800.200-LED Binocular Model BM-180/SP as above but with 9V/6W LED illumination and rechargeable battery

BOECO BINOCULAR MICROSCOPE MODEL BM-180/I/SP

Specification BM-180/I/SP

Magnification: 40X- 1600X

Optical Head: Compensation free Seidentopf Binocular Head with Infinity corrected optical system, 30° inclined, 360° rotatable, Interpupillary Distance 55 - 75 mm

Nosepiece: Quadruple revolving nosepiece

Eyeiece: Pair Eyepiece WF 10X /18 mm Widefield

Pair Eyepiece P 16X

Objectives: BOECO Infinite Semi-Plan Achromatic 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: Abbè 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

BM-180/I/PL WITH
COMPENSATION
FREE, SEIDENTOPF
TYPE HEAD AND
INFINITE OPTICAL
SYSTEM.

BM-180/T/I/PL WITH
COMPENSATION
FREE, SEIDENTOPF
TYPE HEAD AND
INFINITE OPTICAL
SYSTEM.

Art.No	Model	Head	Objective type	Objective Magnification	Voltage
BOE 1800.500	BM-180/I/SP	Binocular, Seidentopf	Infinite SemiPlan Achrom.	4X, 10X, 40X, 100X (Oil)	220 V
BOE 1800.501	BM-180/I/SP	Binocular, Seidentopf	Infinite SemiPlan Achrom.	4X, 10X, 40X, 100X (Oil)	110 V
BOE 1800.530	BM-180/T/I/SP	Trinocular, Seidentopf	Infinite SemiPlan Achrom.	4X, 10X, 40X, 100X (Oil)	220 V
BOE 1800.531	BM-180/T/I/SP	Trinocular, Seidentopf	Infinite SemiPan Achrom.	4X, 10X, 40X, 100X (Oil)	110 V
BOE 1800.550	BM-180/I/PL	Binocular, Seidentopf	Infinite Plan-Achromatic	4X, 10X, 40X, 100X (Oil)	220 V
BOE 1800.551	BM-180/I/PL	Binocular, Seidentopf	Infinite Plan-Achromatic	4X, 10X, 40X, 100X (Oil)	110 V
BOE 1800.560	BM-180/T/I/PL	Trinocular, Seidentopf	Infinite Plan-Achromatic	4X, 10X, 40X, 100X (Oil)	220 V
BOE 1800.561	BM-180/T/I/PL	Trinocular, Seidentopf	Infinite Plan-Achromatic	4X, 10X, 40X, 100X (Oil)	110 V

BOECO ACCESSORIES FOR BOECO MICROSCOPE BM-180

Objectives

Code	Description
BOE 1800.403	BOECO DIN Achromatic Objective 4X
BOE 1800.402	BOECO DIN Achromatic Objective 10X
BOE 1800.404	BOECO DIN Achromatic Objective 40X (S)
BOE 1800.406	BOECO DIN Achromatic Objective 100X (S) (Oil)
BOE 1800.413	BOECO Black Semi-Plan Achromat DIN Objective 4X
BOE 1800.414	BOECO Black Semi-Plan Achromat DIN Objective 10X
BOE 1800.415	BOECO Black Semi-Plan Achromat DIN Objective 40X (S),
BOE 1800.416	BOECO Black Semi-Plan Achromat DIN Objective 100X (S)(Oil)
BOE 1800.512	BOECO Infinite Semi-Plan Achromatic Objective 4X
BOE 1800.514	BOECO Infinite Semi-Plan Achromatic Objective 10X
BOE 1800.516	BOECO Infinite Semi-Plan Achromatic Objective 40X (S)
BOE 1800.517	BOECO Infinite Semi-Plan Achromatic Objective 100X (S) (Oil)
BOE 1800.552	BOECO Infinite Plan Achromatic Objective 4X
BOE 1800.553	BOECO Infinite Plan Achromatic Objective 10X
BOE 1800.554	BOECO Infinite Plan Achromatic Objective 40X (S)
BOE 1800.555	BOECO Infinite Plan Achromatic Objective 100X (S) (Oil)



OBJECTIVES

Eyepieces

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.

Video Adapter

Code	Description
BOE 1800.802	1x Video Attachment with C mount
BOE 1800.803	0,5x Video Attachment with C mount

Digital Camera Eyepiece Adapters

Code	Description
BOE 1800.808	Adapter NDPL-1 with 2x magnification for NIKON SLR camera
BOE 1800.809	T adapter ring to connect NDPL-1 with NIKON SLR camera
BOE 1800.810	Eyepiece adapter and adapter to connect CANON PowerShot A650 IS camera
BOE 1800.806	HDCE-20 Digital Camera Eyepiece Digital Camera eyepiece with 2 Million pixel USB 2,0 connection and software
BOE 1800.807	HDCE-30 Digital Camera Eyepiece Digital Camera eyepiece with 3 Million pixel USB 2,0 connection and software

Phase Contrast Kits

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

Dark Field Condenser

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
BOE 1800.417	Plan-Achromatic Objective 100X for Dark Field

Koehler Illumination set

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

Epi-Fluorescent Attachment for BM-180/SP

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



T-ADAPTER RING AND NDPL-1 EYEPIECE ADAPTER



BOE 1800.902



BOE 1800.903



BOE 1800.904

PHASE CONTRAST KITS



BOE 1800.305



BOE 1800.306

DARK FIELD CONDENSER



KOEHLER ILLUMINATION SET



EPI FLUORESCENT ATTACHMENT

BOECO ROUTINE BINOCULAR MICROSCOPE MODEL BM-120

Specification 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 Objective 4x/0.10
 BOECO Achromat DIN Objective 10x/0.25
 BOECO Achromat DIN Objective 40x/0.65, spring loaded
 BOECO Achromat DIN Objective 100x/1.25, Oil, spring loaded
 Stage: Double layer mechanical specimen stage. 140 x 140 mm
 Travel aerea 75 x 50 mm,
 Focusing: Coaxial coarse and Fine Focus Adjustment, Range 24 mm, 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
 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, 220V 50/60 Hz
BOE 1200.101	Model BM-120, 110V 60 Hz

BOECO INVERTED BIOLOGICAL MICROSCOPE MODEL BIB-100

Specification BIB-100:

Optical System: Infinity corrected system, field diameter 22 mm
 Viewing Head: Bino- 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: 12V 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

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, w/o objectives
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STEREO MICROSCOPES

BOECO STEREO MICROSCOPE MODEL BTB-3C

Specification BTB-3C:

Optical head:	Binocular head inclined at 45° Interpupillary Distance 55 - 75 mm Eyepiece dioptic adjustment range $\pm 5D$
Working distance:	57 mm
Eyepiece:	WF10X/20 eyepieces
Stereo Optics:	Objectives 2x & 4X in revolving nosepiece
Illumination:	2-way illumination switch allows upper and lower illumination. Transmitted (lower) halogen light source 12V / 15 W, Incident (upper) Tungsten light source 12V / 10 W
Stage Plate:	Frosted glass stage plate and black/white reversible stage plate
Base:	Stable 300 x 225 mm base, fitted with anti-skid rubber feet
Dimensions:	300 (W) x 225 (L) x 300 (H) mm, Netweight 4,80
Packing:	380 x 340 x 410 cm, Grossweight 6,40 kg

Code	Description
BOE 3200.000	BTB-3C, 220 V
BOE 3200.001	BTB-3C, 110 V

optional

BOE 3200.020	Wide Field Eyepiece WF 20x, pc, for BTB-3C
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BOECO ZOOM STEREO MICROSCOPE MODEL BTB-3A

Specification BTB-3A:

Optical head:	Binocular head inclined at 45° Interpupillary Distance 55 - 75 mm Eyepiece dioptic adjustment range $\pm 5D$
Working distance:	95 mm
Field of View:	28,0 to 4.5 mm diam.
Eyepiece:	WF10X/20 eyepieces with eyeshadow
Zoom Optics:	0,7X to 4,5X , Zoom ratio 1:6,5
Illumination:	2-way illumination switch allows upper and lower illumination. Transmitted (lower) halogen light source 6V / 20 W. Incident (upper) halogen light source 6V / 15 W with reflector
Stage Plate:	Frosted glass stage plate and black/white reversible stage plate
Base:	Stable 300 x 225 mm base, fitted with anti-skid rubber feet Main Body 360° rotatable
Dimensions:	300 (W) x 225 (L) x 300 (H) mm, Netweight 6,15 kg
Packing:	400 x 340 x 670 cm, Grossweight 10,1 kg

Code	Description
BOE 3500.000	BTB-3A, 220 V
BOE 3500.001	BTB-3A, 110 V
BOE 3500.300	BTB-3A, Trinocular, 220 V
BOE 3500.301	BTB-3A, Trinocular, 110 V

optional

BOE 3500.020	Wide Field Eyepiece WF 20x, pc, for BTB-3A
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MONOCULAR MICROSCOPES

BOECO STUDENT MONOCULAR MICROSCOPE, MODEL 100



Specification Modell 100:

Optical Head:	Monocular Head, 45° inclined, 360° rotatable,
Nosepiece:	Quadruple revolving nosepiece
Eyeiece:	Pair Eyepiece WF 10X /18 mm Widefield
Objectives:	Achromatic DIN Objective 4x/0.10 Achromatic DIN Objective 10x/0.25 Achromatic DIN Objective 40x/0.65, spring loaded Achromatic DIN Objective 100x/1.25, Oil, spring loaded
Stage:	Attachable mechanical stage. Travel aerea 60 x 30 mm,
Focusing:	Separate Coars & Fine Adjustment,
Condenser:	Abbe Brightfield condenser, n.A. 1,25, with iris diaphragm and filter. Spiral up and down adjustment
Illumination:	Halogen Lamp 6V 15W. light intensity adjustable
Supplied with:	Reflecting Mirror, Dust cover, spare bulb, spare fuse,
Dimension:	205 x 140 x 380 mm
Packing:	Styrofoam shelve in a cardboard box, 32x24x44 cm, 4,7 kg

Code	Description
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BOE 1100.010	Model 100, 220V 50/60 Hz
BOE 1100.011	Model 100, 110V 60 H

BOECO STUDENT MONOCULAR MICROSCOPE, MODEL 10



Specification Modell 10:

Optical Head:	Monocular Head, 45° inclined, ,
Nosepiece:	Triple revolving nosepiece
Eyeiece:	Pair Eyepiece WF 10X /18 mm Widefield
Objectives:	Achromatic DIN Objective 4x/0.10 Achromatic DIN Objective 10x/0.25 Achromatic DIN Objective 40x/0.65, spring loaded
Stage:	Plain stage with attachable mechanical stage. 110 x 120 mm, Travel aerea 60 x 30 mm
Focusing:	Coaxial coarse and Fine Adjustment, Range 10 mm
Condenser:	Abbe Brightfield condenser, n.A. 1,25, with iris diaphragm and blue filter. Spiral Adjustment for Condenser
Illumination:	Incandescent Lamp 110V or 220V/20 W. Brightness adjustable
Supplied with:	Reflecting Mirror, Dust cover, spare bulb, spare fuse,
Dimension:	180x130x340 mm
Packing:	Styrofoam shelve in a cardboard box, 28x20x40 cm, 3,3 kg

Code	Description
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Art. No.	BOE 1000.030 Model 10, 220V 50/60 Hz
Art. No.	BOE 1000.031 Model 10, 110V 60 Hz

Optional accessories:

Eyepiece 5x, 16x
 Eyepiece with pointer WF10x
 Objective (DIN) 20x(S), 60x(S) 100x(S)
 Wooden Case & Carton packing