



OPTICAL INSTRUMENTS

 **BOECO**
Germany

BIOLOGICAL MICROSCOPES

BOECO LABORATORY BINOCULAR MICROSCOPE MODEL BM-800

Specification BM-800:

Optical System:	Infinite 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 EW 10X /22 mm
Objectives:	BOECO Infinite 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, fine division 0,001 mm, Coarse stroke 37,7mm/rotation fine stroke 0,1mm/rotation, mowing Range 24 mm safety autofocus stop unit.
Condenser:	Swing condenser, N.A. 0,9/0,25
Field diaphragm:	With aspherical condenser and Köhler illumination
Illumination:	5W LED illumination, brightness adjustable
Body / power:	Modern and ergonomic body made from die-cast aluminium with inbuilt power supply 110-240 V, 50/60 Hz
Supplied with:	Dust cover, immersion oil, green filter and instruction manual
Dimensions:	280 x 358 x 304/416 mm, net weight 9,3 / 9,9 kg

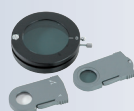
Code	Description	Head	Plug
BOE 8000.550	BM-800/I/PL	Binocular	Euro
BOE 8000.551	BM-800/I/PL	Binocular	US
BOE 8000.560	BM-800/T/I/PL	Trinocular	Euro
BOE 8000.561	BM-800/T/I/PL	Trinocular	US

Accessories

Code	Description
BOE 8000.301	EW eyepiece 10x/22mm
BOE 8000.302	EW eyepiece 10x/22mm with pointer
BOE 8000.303	EW eyepiece 10x/22mm with micrometer
BOE 8000.552	BOECO Infinite E Plan Achrom. Objective 4x
BOE 8000.553	BOECO Infinite E Plan Achrom. Objective 10x
BOE 8000.559	BOECO Infinite E Plan Achrom. Objective 20x
BOE 8000.554	BOECO Infinite E Plan Achrom. Objective 40x (S)
BOE 8000.555	BOECO Infinite E Plan Achrom. Objective 100x (S) (Oil)
BOE 8000.305	Dark Field Condenser (Dry) NA 0,7-0,9
BOE 8000.306	Dark Field Condenser (Oil) NA 1,25-1,36
BOE 1800.419	Objective 100x plan-achrom. for Dark field cond. (Oil)
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) BP460-495, G (Green) BP 510-550 Excitation 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 100-240 V
BOE 8000.923	Infinite Plan Fluorescence Free Obj. 4x
BOE 8000.924	Infinite Plan Fluorescence Free Obj. 10x
BOE 8000.925	Infinite Plan Fluorescence Free Obj. 20x
BOE 8000.926	Infinite Plan Fluorescence Free Obj. 40x
BOE 8000.927	Infinite Plan Fluorescence Free Obj. 100x
BOE 8000.908	U (ultraviolet) BP330-385 Excitation light filter system
BOE 8000.909	V (violet) BP400-410 Excitation light filter system



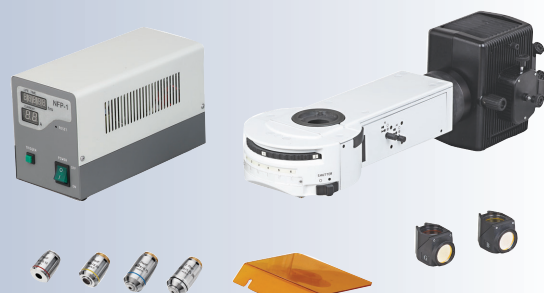
POLARISATION SET



PHASE CONTRAST KIT



EPI-FLUORESCENT ATTACHMENT



BOECO INVERTED BIOLOGICAL MICROSCOPE MODEL BIB-100

Specification BIB-100:

Optical System:	Infinite 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
Eyeiece:	High-point, Extra Wide Field Eyepiece EW 10x /22 mm
Objectives:	LWD Infinite corrected Plan Achromat Objective 4x/0,1 WD 28 mm LWD Infinite corrected Plan Achromat Objective 40x/0,6 WD 2.1 mm Infinite corrected Plan Achromat Phase Objective 10x/0,25 WD 10 mm Infinite corrected Plan Achromat Phase Objective 20x/0,4 WD 5.1 mm
Condenser:	ELWD condenser N.A. 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, Coarse stroke 37.7 mm per rotation, Fine Stroke: 0,2 mm per rotation
Filter:	Diameter 45 mm, blue, green and ground glass
Illumination:	3W LED lamp, brightness adjustable
Body:	Innovative stand structure
Power:	Inbuilt power supply 100-240 V, 50/60 Hz
Weight:	Net weight 10,0 / 10,5 kg

Supplied with: Dust cover, immersion oil and instruction manual

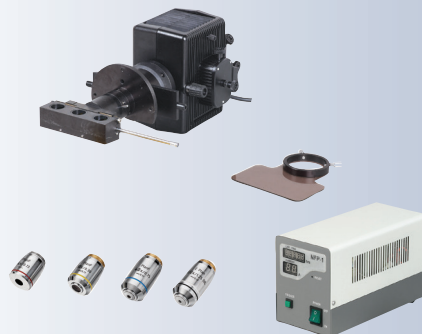
Code	Description	Head	Plug
BOE 5000.900	BIB-100	Binocular	Euro
BOE 5000.901	BIB-100	Binocular	US
BOE 5000.930	BIB-100/T	Trinocular	Euro
BOE 5000.931	BIB-100/T	Trinocular	US

Optional Accessories

Code	Description
BOE 5000.220	Terasaki Holder
BOE 5000.221	35 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



HOLDERS



BOECO BINOCULAR MICROSCOPE MODEL BM-700

Our 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 system:	Siedentopf 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, 100x (S, Oil)
Stage:	Double layer mechanical specimen stage 216 x 150 mm moving range 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 24 mm, Safety stop unit
Condenser:	Sliding-in centerable Abbe Bright field condenser, N.A. 1,25, Integrated Iris diaphragm and filter tray
Illumination:	3W LED lamp, Koehler illumination, brightness adjustable
Body /power:	Sturdy body with supportive rubber and inbuilt power supply 100 - 240 V, 50/60 Hz
Supplied with:	Dust cover, green filter, immersion oil and instruction manual
Dimensions:	204 x 376 x 406 mm
Weight:	Net weight 6,4 / 7,2 kg
Packing:	Styrofoam shelfe in a cardboard box



**BACK HANDLE / POWER CORD
WRAP**



**ANTI FUNGUS TREATED
OBJECTIVES**



**KOEHLER ILLUMINATION /
SLIDING-IN ABBE BRIGHT FIELD
CONDENSER**



**BIG RACKLESS MECHANICAL STAGE WITH
ANTI SCRATCH GRAPHITE TREATMENT**

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 Infinite Plan Achromatic AF Obj. 4x
BOE 7000.553	BOECO Infinite Plan Achromatic AF Obj. 10x
BOE 7000.559	BOECO Infinite Plan Achromatic AF Obj. 20x
BOE 7000.554	BOECO Infinite Plan Achromatic AF Obj. 40x (S)
BOE 7000.555	BOECO Infinite Plan Achromatic AF Obj. 100x (S) (Oil)

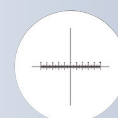


Accessories for BM-700

Code	Description
BOE 7000.303	WF eyepiece 10x/20mm with Micrometer
BOE 7000.302	WF eyepiece 10x/20mm with Pointer
BOE 7000.307	WF eyepiece 10x/22mm
BOE 7000.304	Eyeiece 15x/16mm
BOE 7000.305	Dark Field Condenser (Dry) NA 0,7-0,9
BOE 7000.306	Dark Field Condenser (Oil) NA 1,36-1,25
BOE 7000.325	Polarisation attachment
BOE 7000.903	Phase Contrast kit, dial type. Consisting of Phase Contrast Infinite Plan-achromatic Objectives 10x, 40x, 100x(S)(Oil), Turret Annular Phase Contrast Condenser, Green Filter
BOE 7000.907	Epi-Fluorescent 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 TYPE



POLARIZATION
ATTACHMENT



PHASE CONTRAST
CONDENSER (DIAL)



BM-700 WITH FL-LED

BOECO BINOCULAR MICROSCOPE MODEL BM-250/I/SP

Specification BM-250/I/SP:

Optical System:	Siedentopf Viewing Head, 30° inclined, 360° rotatable, with Infinite corrected optical system. Interpupillary Distance 47 - 78 mm, diopter adjustable (left side)
Nosepiece:	Backward quadruple revolving nosepiece
Eyepiece:	Pair Eyepiece WF 10x /20 mm Wide field
Objectives:	BOECO Anti Fungus Infinite Semi-plan Achromat Objectives F=180 mm: 4x, 10x, 40x (S), 100x (S) (Oil)
Stage:	Rackless Double layer mechanical specimen stage 150 x 139 mm, moving range 75 x 52 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 25 mm, Safety stop unit.
Condenser:	Abbe Bright field condenser, N.A. 1,25, Integrated Iris diaphragm and filter tray with rack & pinion height adjustment
Illumination:	S-LED, brightness adjustable
Body / power:	Sturdy body with supportive rubber and inbuilt power supply, 100-240 V, 50/60 Hz
Supplied with:	Dust cover, green filter, immersion oil, instruction manual
Dimensions:	208(W) x 266(D) x 370(H) mm
Weight:	Net weight 6,9 / 7,3 kg
Packing:	Styrofoam shelf in a cardboard box

Code	Description	Head	Plug
BOE 2500.200	Model BM-250/I/SP	Binocular	Euro
BOE 2500.201	Model BM-250/I/SP	Binocular	US
BOE 2500.230	Model BM-250/T/I/SP	Trinocular	Euro
BOE 2500.231	Model BM-250/T/I/SP	Trinocular	US
BOE 3000.512	BOECO Infinite Semi-Plan Achromatic AF Obj. 4x		
BOE 3000.514	BOECO Infinite Semi-Plan Achromatic AF Obj. 10x		
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)		

EW 10X/20MM
EYEPIECES



ANTI FUNGUS TREATED
OBJECTIVES



RACKLESS
MECHANICAL STAGE

BOECO BINOCULAR MICROSCOPE MODEL BM-190 SP

Specification BM-190/SP:

Magnification: 40X- 100x
 Optical system: Siedentopf Viewing Head, 30° inclined, 360° rotatable, Interpupillary Distance 47 - 78 mm, diopter adjustable (left)
 Nosepiece: Backward quadruple revolving nosepiece
 Eyepiece: Pair Eyepiece WF 10x /18 mm Widefield
 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 moving range 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 25 mm, Safety stop unit.
 Condenser: Abbè Brightfield condenser, N.A. 1,25, Integrated Iris diaphragm and filter tray. With rack & pinion height adjustment
 Illumination: S-LED, brightness adjustable.
 Body / power: Sturdy body with supportive rubber and inbuilt power supply 100-240 V, 50/60 Hz
 Supplied with: Dust cover, green filter, immersion oil, instruction manual
 Dimensions: 208(W) x 266(D) x 370(H) mm
 Weight: Net weight 6,9 / 7,2 kg
 Packing: Styrofoam shelf in a cardboard box



TRINOCULAR MODEL
BM-190/T/SP



POWER CORD WRAP IN THE BACK

Code	Description	Head	Plug
BOE 1900.200	BM-190/SP	Binocular	Euro
BOE 1900.201	BM-190/SP	Binocular	US
BOE 1900.230	BM-190/T/SP	Trinocular	Euro
BOE 1900.231	BM-190/T/SP	Trinocular	US

Objectives for BM-190/SP, BM-180/SP

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-190, BM-180, BM-120, BM-117, 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.

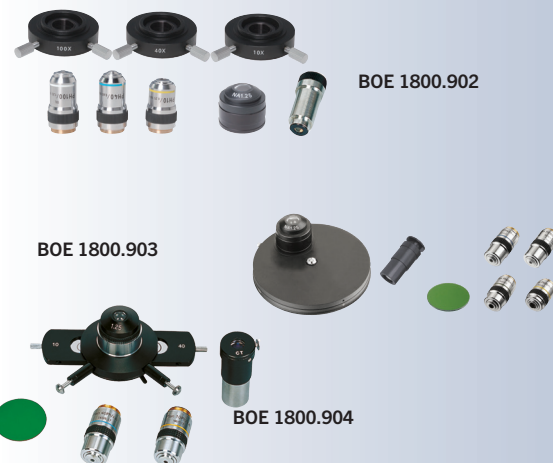
Dark Field Condensers for BM-180/SP, BM-190/SP

Code	Description
BOE 1800.305	Dark Field Condenser (Dry) NA 0-7-0,9
BOE 1800.306	Dark Field Condenser (Oil) NA 1,25-1,36
BOE 1800.412	Achromatic Objective 100x for Dark Field (Oil) with cone diaphragm
BOE 1800.417	Plan-Achromatic Objective 100x for Dark Field (Oil) with Iris Diaphragm



Phase Contrast Kits for BM-180/SP, BM-190/SP

Code	Description
BOE 1800.902	Annular Phase Contrast Kit, consisting of: Simple 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, Green Filter Plan achromatic Phase Contrast Objectives PH10x, PH40x, Centering Telescope



Epi-Fluorescent Attachments for BM-180/SP, BM-190/SP

Code	Description
BOE 1800.906	Epi-Fluorescent attachment complete set B (Blue), G (Green) Excitation 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 100-240 V, Fluorescent Free Objective 4x, 10x, 40x (S), 100x (S)(Oil), Fluorescent Free Oil
BOE 1800.908	U (ultraviolet) Excitation light filter system
BOE 1800.909	V (violet) Excitation light filter system



BOECO ROUTINE BINOCULAR MICROSCOPE MODEL BM-120

Magnification:	40x- 100x
Optical System:	Compensation Free Binocular Head, 30° inclined, 360° rotatable, Interpupillary Distance 55 - 75 mm
Nosepiece:	Quadruple revolving nosepiece
Eyepiece:	Pair Eyepiece WF 10x /18 mm Wide field
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 moving rane 75 x 50 mm,
Focusing:	Coaxial coarse and Fine Focus Adjustment, Range 20 mm fine Division 2 microns, safety stop unit
Condenser:	Abbe Brightfield condenser, N.A. 1,25, Integrated iris diaphragm and filter tray with rack & pinion height adjustment
Illumination:	S-LED, brightness adjustable
Body /power:	Sturdy body with supportive rubber and inbuilt power supply 100-240 V, 50/60 Hz
Supplied with:	Dust cover, green filter, immersion oil and instruction manual
Dimensions:	196 x 344 x 349 mm, net weight 5,6 kg

Code	Description	Head	Plug
BOE 1200.100	Model BM-120	Binocular	Euro
BOE 1200.101	Model BM-120	Binocular	US
BOE 1200.005	Mirror attachment for BM-120		



OPTIONAL MIRROR-ATTACHMENT

STUDENT MICROSCOPES



BOECO STUDENT MICROSCOPES MODEL BM-117

Optical System:	Binocular or Monocular Head, 30° inclined, 360° rotatable, interpupillary distance 48 - 75 mm
Nosepiece:	Backward quadruple revolving nosepiece
Eyeiece:	Wide field Eyepiece WF 10x /18 mm
Objectives:	Achromatic DIN Objectives 4x/0.10, 10x/0.25, 40x/0.65 (S), 100x/1.25, (Oil)(S)
Stage:	Double Layers mechanical stage 132 x 142 mm moving range 75 x 40 mm
Focusing:	Coaxial Coarse & Fine Adjustment System Range 24 mm, Fine Division 0,004 mm
Condenser:	Abbe Condenser, N.A. 1,2, with iris diaphragm and filter
Illumination:	S-LED, light brightness adjustable
Body / power:	Sturdy body with supportive rubber and inbuilt power supply 110-240 V, 50/60 Hz
Supplied with:	Dust cover, green filter, spare fuses, Immersion oil
Dimensions:	170 x 310 x 355 mm, netweight 4,4 kg
Packing:	Styrofoam shelfe in a cardboard box

Code	Description	Head	Plug
BOE 1170.100	BM-117	Binocular	Euro
BOE 1170.101	BM-117	Binocular	US
BOE 1170.110	BM-117	Monocular	Euro
BOE 1170.111	BM-117	Monocular	US

BOECO STUDENT MONOCULAR MICROSCOPE MODEL BM-1

Specification:

Optical system:	Monocular Head, 30° inclined,
Nosepiece:	Triple revolving nosepiece
Eyeiece:	Pair Eyepiece WF 10x /15 mm, WF 25x/9 mm
Objectives:	Achromatic Objectives 4x/0.10, 10x/0.25, 40x/0.65
Stage:	Plain stage with Slide Clips 95 x 95 mm
Focusing:	Coaxial coarse and Fine Adjustment
Condenser:	N.A. 0.65 with Disc Diaphragm
Illumination:	0,1W LED, Brightness adjustable, + upper USB LED Lamp
Supplied with:	Dust cover, spare fuse, manual
Power:	AC/DC adapter 100-240 V, 50/60 Hz, Output 5 V, 500 mA
Dimensions:	126x186x305 mm, net weight 1,9 kg
Packing:	Styrofoam shelfe in a cardboard box

Code	Description	Head	Plug
BOE 1111.010	BM-1	Monocular	EU and US plug

optional

Code	Description
BOE 1111.100	Achromatic Objective 100x



Objectives for BM-120 and BM-117, BM-1

Code	Description
BOE 1800.403	BOECO DIN Achromatic Objective 4x
BOE 1800.402	BOECO DIN Achromatic Objective 10x
BOE 1800.409	BOECO DIN Achromatic Objective 20x
BOE 1800.404	BOECO DIN Achromatic Objective 40x (S)
BOE 1800.406	BOECO DIN Achromatic Objective 100x (S) (Oil)

STEREO MICROSCOPES

BOECO ZOOM STEREO MICROSCOPE MODEL BSZ-405

Specification BSZ-405:

Optical system:	Binocular head inclined at 45° Interpupillary Distance 55 - 75 mm Eyepiece dioptic adjustment range $\pm 5D$
Working distance:	97 mm
Field of View:	20,0 to 4.4 mm diam.
Eyepiece:	EWF 10x/20 mm eyepieces
Zoom Optics:	1X to 4,5x , Zoom ratio 1:4,5
Illumination:	2-way illumination LED 1,2W Reflected (upper) illumination LED 0,7W Transmitted (lower) illumination
Stage Plate:	Frosted glass stage plate 90 mm and black/white reversible stage plate
Base:	Stable 262 x 185 mm base, fitted with anti-skid rubber feet. Main Body 360° rotatable
Power:	100-240 V, 50/60 Hz
Dimensions:	185 (W) x 262 (L) x 315 (H) mm, Net weight 4,3 / 4,4 kg

Code	Description	Head	Plug
BOE 4050.000	BSZ-405	Binocular	Euro
BOE 4050.001	BSZ-405	Binocular	US
BOE 4050.300	BSZ-405/T	Trinocular	Euro
BOE 4050.301	BSZ-405/T	Trinocular	US

optional

Code	Description
BOE 3460.020	Wide Field Eyepiece WF 20x/12 with diopter adjustment
BOE 4050.002	Auxiliary Objective 2x, for BSZ-405 and BS-80
BOE 4050.007	Auxiliary Objective 0,75x, for BSZ-405 and BS-80

BOECO ZOOM STEREO MICROSCOPE MODEL BST-606

Specification BST-606:

Optical system:	Binocular head inclined at 45° Interpupillary distance 55 - 75 mm Eyepiece dioptic adjustment range $\pm 5D$
Working distance:	115 mm
Field of View:	28,0 to 4,5 mm diam.
Eyepiece:	EWF 10x/22 mm eyepieces with eyeshadow
Zoom Optics:	0,8x to 5x, Zoom ratio 6,3:1
Illumination:	2-way illumination switch allows upper and lower illumination Transmitted (lower) LED light source Incident (upper) LED light source
Stage Plate:	100 mm $\varnothing$ frosted glass stage plate and black/white reversible stage plate
Base:	Stable 300x225 mm base, fitted with anti-skid rubber feet. Main Body 360° rotatable
Power:	100-240 V, 50/60 Hz
Dimensions:	300 (W) x 225 (L) x 300 (H) mm, Net weight 5,4 kg

Code	Description	Head	Plug
BOE 6060.000	BST-606	Binocular	EURO
BOE 6060.001	BST-606	Binocular	US
BOE 6060.300	BST-606/T	Trinocular	Euro
BOE 6060.301	BST-606/T	Trinocular	US

optional

BOE 3460.020	Wide Field Eyepiece WF 20x/12 w/ diopter adjustment
BOE 6060.002	Auxiliary Objective 2x, for BST-606
BOE 6060.005	Auxiliary Objective 0,5x, for BST-606



BSZ-405 TRINOCULAR WITH DIGITAL MICROSCOPE CAMERA B-CAM10





Specifications:

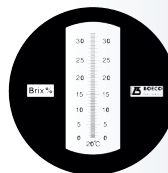
Model:	B-CAM16	B-CAM10	B-CAM2	B-CAM1080PHB
Code	BOE 1900.16000	BOE 1900.10000	BOE 1900.02000	BOE 1900.05000
Camera	Color CMOS 16 MP	Color CMOS 10 MP	Color CMOS 2 MP	Color CMOS 5 MP
Application software	B-View on disk (12 cm)	B-View on disk (12 cm)	B-View on disk (8 cm)	B-View on disk (12 cm)
Lens adapter	0.50x manual focusable	0.50x manual focusable	N/A	0.50x manual focusable
Eye tube adapter ring	23.2 mm to 30.0mm	23.2 mm to 30.0mm	23.2 mm to 30.0mm	23.2 mm to 30.0mm
Calibration slide	1mm/100 Div.x 0,01mm	1mm/100 Div.x 0,01mm	N/A	1mm/100 Div.x
0,01mm				
Spectral Range (IR filter)	380-650nm	380-650nm	380-650nm	380-650nm
Sensor Size (mm)	1/2.33"(6.18x4.67)	1/2.3"(5.98x4.58)	1/3.2" (4.48x3.36)	1/1.8" (6.22x3.36)
Pixel Size (µm)	1.335x1.335	1.67x1.67	2.8x2.8	2.4x2.4
FPS/Resolution	16@4632x3488 30@2320x1740 27@1536x1160	7.2@3584x2746 24.5@1792x1372	5@1600x1200 7.5@1280x1024 20@800x600 22@640x480	30@1920x1080 (HDMI) 25@1920x1080 (WIFI)
USB Interface	USB 3.0 (USB 2.0)	USB 3.0 (USB 2.0)	USB 2.0 (USB 3.0)	USB 2.0 (USB 3.0)
Binning	1x1, 2x2, 3x3	1x1, 2x2, 4x4	1x1, 2x2, 3x3	N/A
Exposure Mode	ROI Auto & Manual input	ROI Auto & Manual input	ROI Auto & Manual input	Auto & Manual
Exposure Time	0.2~2000ms	0.1~2000ms	0.244~2000ms	0.122~250ms
White Balance	ROI White Balance/ Manual Temp Tint Adjustment			N/A
Color Rendering Tech:	Ultra FineTM Color Engine			N/A
Recording System	Still Picture and Movie			
Capture/Control API	Native C/C++, C#, DirectShow, Twain and Labview			
PC Requirements:	CPU equal to Intel Core2 2.8GHz or higher, 2GB Ram Memory or more. USB 3.0 High speed port, 17" Display or larger			

B-View is a professional application software integrated with camera control, image capture & process, image browse, image measurement and analysis

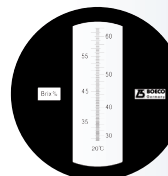
REFRACTOMETER

BOECO HAND REFRACTOMETER

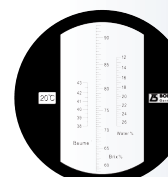
Code	Description
BOE 30103	Saccharic Concentration 0-32 % Resolution: 0,2 %



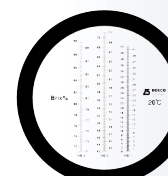
Code	Description
BOE 30104	Saccharic Concentration 28-62 % Resolution: 0,2 %



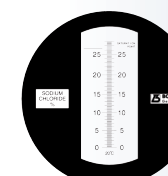
Code	Description
BOE 30106	Saccharic Concentration 58-90% 58-90% Brix, 38°-43°Be', 17-27% water Resolution: 0,5 % Brix, 0,5° Be', 1% water (Sugar content, Baume and Water content)



Code	Description
BOE 30107	Saccharic Concentration 0-90 % (3 ranges) 0-42%, 42-71%, 71-90% Resolution: 0,2 %



Code	Description
BOE 30202	Salinity 0-28 % Resolution: 0,2 %



Code	Description
BOE 30301	Protein in Serum 0-12g/dl / 0,2 g/dl Urine Gravity 1.000-1.040 sg / 0,002 sg



DIGITAL HAND REFRACTOMETER

with Automatic Temperature Compensation (ATC), large backlit color tdt display, multi-scale, dual temperature conversion
Dimensions: 145x67x38 mm, batteries included (AAA, 2 pcs.)

Code	Description
BOE 32345	Range: 0-45 % Brix Resolution: 0,1% Accuracy: $\pm 0,2$ % Refractiv Index: 1.3330 - 1.4098 Resolution: 0,0001 Accuracy: $\pm 0,0003$
BOE 32395	Range: 0-95 % Brix Resolution: 0,1% Accuracy: $\pm 0,5$ % Refractiv Index: 1.3330 - 1.5400 Resolution: 0,0001 Accuracy: $\pm 0,0005$



BOECO ABBE REFRACTOMETER

complete with: 1 x set special thermometer (with protective shield) 1 pc.
Standard Specimen, 1 x screw driver, 1 x instruction manual., 1 x button cell

Specification:

Measuring range of ND:	1.3000-1.7000
Measuring accuracy of ND (room temperature):	± 0.0002
Minimum scale value for ND:	0.0005
Minimum scale value for the concentration: of sugar content (%)	0.25
Measuring range of the concentration: of sugar content (%)	0-95
Magnification of telescopic system:	2x
Magnification of reading system:	30x
Weight of the instrument (kg):	2,6
Dimensions (mm):	100 x 200 x 240

Code	Description
BOE 32200	ABBE Refractometer, with aluminium carrying case



BOECO DIGITAL ABBE REFRACTOMETER

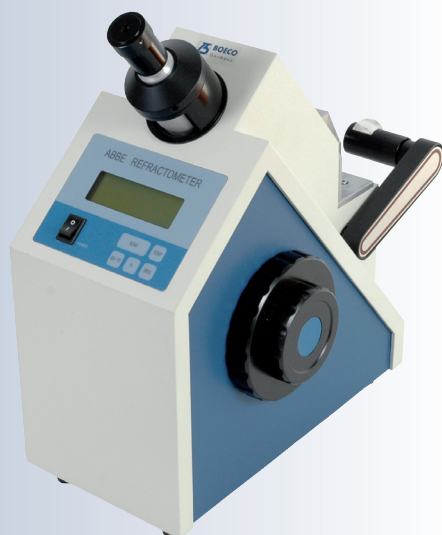
This instrument can widely be used in petroleum, chemical, pharmaceutical, sugar refining and food industries, as well as in related colleges, universities and scientific research institutions for measuring the refractive index ND of transparent or subtransparent liquid or solid substance. This instrument can also be used to measure Brix (BX) of the sugar solution and to correct the affect of temperature on the Brix automatically.

In addition the instrument can display the temperature of the sample. Complete with: 1 x standard sample (standard block), 1 x inner - hexagon spanner, 3 x Illuminating Bulb, 1 x Plastic Cover Hood, 3 x fuses, 1 x instruction manual

Specification:

Measuring range	
Refractive index ND:	1.3000-1.7000
Brix BX - TC:	0-95 %
Brix BX:	0-95 %
Measuring accuracy	
Refractive index ND:	± 0.0002
Brix BX - TC:	± 0.1 %
Brix BX:	± 0.1 %
Temperature	
Temperature displaying range:	0-50°C
Correcting range of BX versus temperature:	15-45°C
Weight (kg):	12,0
Dimensions (mm):	330 x 180 x 380

Code	Description
BOE 32400	Digital ABBE Refractometer, 220 V with aluminium carrying case
BOE 32401	Digital ABBE Refractometer, 110 V with aluminium carrying case



BOECO

The family-owned company Boeckel + Co. (GmbH + Co.) KG was founded in 1929 and now exists in the fourth generation.

To our customers on all 5 continents we are pleased to introduce our fifth general BOECO catalog with our extended and updated complete line of laboratory equipment and consumables.

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