

bScope

HIGHLIGHTS

- Microscopes for research and laboratories
- Monocular, binocular and trinocular models
- HWF 10x/20 mm eyepieces
- Reversed ball-beared quadruple or quintuple nosepiece
 with slot for polarization filter
- E-plan, Plan, E-plan IOS and Plan IOS objectives
- E-plan Phase, E-plan Phase IOS, Plan Phase IOS objectives
- Rackless integrated X-Y mechanical stage
- 3 W NeoLED[™] adjustable illumination system
- Integrated carrying grip
- Cable Storage System
- 10 Years warranty

TECHNICAL SPECIFICATIONS

EYEPIECE(S)

High wide field HWF 10x/20 mm secured eyepiece(s) with 20 mm field of view

HEAD

- The bScope is available with a monocular head (45° inclined Ø 23.2 mm tube) or with a Siedentopf type head, 360° rotatable, with 30° inclined Ø 23.2 mm tubes
- Binocular and trinocular models are equipped with a diopter ± 5 adjustment on left eyepiece
- The interpupillary distance is adjustable between 48 to 76 mm
- The models equipped with plan infinity corrected PLi objectives have a unique swiveling system of the eyepiece tubes for ergonomic positioning of the eyepieces in a high and in a low position
- The trinocular head comes with a Ø 23.2 mm photo port, ensuring maximum flexibility. The prisms inside the heads are designed to minimize the light absorption for perfect digital imaging

NOSEPIECE

Revolving and reversed ball-beared quadruple or quintuple nosepiece

OBJECTIVES

The state-of-the-art production techniques and multi layer coatings used for the manufacturing of the bScope objectives enables the bScope to be used for the most demanding applications. World class spherical aberration correction and modern CNC and assembly technology ensure the perfect centering of the objectives

Brightfield models: E-Plan, Plan, E-plan IOS infinity corrected, Plan IOS infinity corrected 4x/0.10, 10x/0.25, 20x/0.40, S40x/0.65, S60x/0.85 and S100x/1.25 oil immersion objectives



 Phase contrast models: E-plan Phase, E-plan Phase IOS infinity corrected, Plan Phase IOS infinity corrected 10x/0.25, 20x/0.40, S40x/0.65 and S100x/1.25 oil immersion objectives

All S40x, S60x and S100x oil immersion objectives are spring loaded. All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

FOCUSING

Double coaxial, low-positioned coarse and fine adjustments with 180 graduations. Precision 1.11 μ m, 200 μ m per rotation, total travel approximately 19 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustment is equipped with friction control

STAGE

The bScope is equipped with a scratch resistant 152/197 x 131 mm stage with integrated 75 x 36 mm X-Y rackless mechanical stage, Vernier scale, soft-close removable specimen holder

The rackless stage has no protruding parts, enables more smooth movements and is safer in use. Low-positioned X-Y control knobs prevent fatique during long working sessions. The bScope can be equipped with a heating stage which can be set up to 50° Celsius by a PID temperature controller. Only available with newly purchased microscopes

CONDENSER FOR BRIGHTFIELD

The standard in height adjustable Abbe N.A. 1.25 condenser for brightfield comes with an iris diaphragm and swing-out filter holder



ZERNIKE CONDENSER FOR PHASE CONTRAST

The in height adjustable Zernike NA. 1.25 phase contrast disc condenser comes with phase annuli for 10/20/S40x and S100x phase contrast objectives, an iris diaphragm, a swing-out filter holder and also a BF position for bright field contrast. Phase contrast objectives in either EPL-PH, EPL-PH or PL-PH phase contrast versions. Supplied with alignment telescope and green filter

CONDENSER WITH SLIDER(S) FOR PHASE CONTRAST

The in height adjustable NA. 1.25 simple phase contrast condenser has a free slot for either a slider for 10/S40x phase contrast objectives OR a slider for 20/S100x phase contrast objectives. The condenser has an iris diaphragm and filter holder. The condenser also includes a BF position for bright field contrast. Phase contrast objectives in either EPL-PH, EPL-PHi or PL-PHi versions. Supplied with alignment telescope and green filter

POLARISATION

The bScope has an integrated slot above the nosepiece for an optional polarization filter

ILLUMINATION

The microscopes of the bScope are equipped with a 3 W NeoLED adjustable illumination system for increased light output and a 100-240 Vac integrated power supply. On request, rechargeable batteries are also available

NEOLED™ ILLUMINATION

The 3 W adjustable Köhler NeoLED diascopic illumination is powered by an internal 100-240 V power supply making it suitable for worldwide use. The innovative NeoLED design offers larger apertures, allowing the optical system of the bScope microscope to produce images at higher resolutions, very close to the theoretical diffraction limit of the optics. Other benefits of the NeoLED is the low energy consumption, no heating and a long operating lifetime

KÖHLER ILLUMINATION

A Köhler illumination ensures for all infinity corrected IOS models the highest possible contrast and the maximum achievable resolving power. It generates a uniform illumination of the sample and eliminates all interference from dust on lenses and side glare of the light source

The Köhler illumination is optional for non-IOS models

CORDLESS USE

The optional rechargeable batteries turn the bScope into a cordless

CSS - CABLE STORAGE SYSTEM

Allows users to easily stow away excess cable length into the back of the instrument during operation and to roll up the power cable for easy storage

CARRYING GRIP

The integrated carrying grip at the back of the microscope ensures safe transportation of the microscope



Carrying grip

ANTI-THEFT SLOT

At the back of the microscope a Kensington Security Slot is placed, which can be used to secure the instrument from theft

PACKAGE CONTENT

Smart Styrofoam packaging ensures a low environmental footprint while maintaining maximum safety during transport. Supplied with power cord, dust cover, tools, a spare fuse, white filter, user manual and 5 ml immersion oil

Phase contrast models are supplied with green filter and alignment telescope. An optional aluminum case can be supplied





BSCOPE FOR BRIGHTFIELD

MODELS	Mono	Bino	Trino	HWF 10x/20 mm eyepieces	Quadruple nosepiece Plan 4/10/S40/S100x	Quadruple nosepiece E-plan 4/10/S40/S100x	Quintuple nosepiece E-plan IOS 4/10/S40/S100x	Quintuple nosepiece Plan IOS 4/10/S40/S100x	Köhler NeoLED™	NeoLED™	2-position swiveling ergo head	Rechargeable batteries
BS.1151-EPL	•			•		•						0
BS.1152-EPL		•		•		•				•		0
BS.1153-EPL			•	•		•				•		0
BS.1152-EPLi		•		•			•		•		•	0
BS.1153-EPLi			•	•			•		•		•	0
BS.1151-PL	•			•	•							0
BS.1152-PLi		•		•				•	•		•	0
BS.1153-PLi			•	•				•	•		•	0

BSCOPE FOR PHASE CONTRAST

MODELS	Bino	Trino	HWF 10x/20 mm eyepieces	Quadruple nosepiece E-plan Phase 10/20/ S40 S100x	Quintuple nosepiece E-plan Phase IOS 10/20/S40 S100x	Quintuple nosepiece Plan Phase IOS 10/20/S40 S100x	Köhler NeoLED™	NeoLED™	2-position swivelling ergo head	Rechargeable batteries
BS.1152-EPLPH	•		•	•				•		0
BS.1153-EPLPH		•	•	•				•		0
BS.1152-EPLPHi	•		•		•		•		•	0
BS.1153-EPLPHi		•	•		•		•		•	0
BS.1152-PLPHi	•		•			•	•		•	0
BS.1153-PLPHi		•	•			•	•		•	0

o = optional

All models are equipped with a 152/197 x 131 mm stage with integrated 75 x 36 mm X-Y rackless mechanical stage





ACCESSORIES AND SPARE PARTS

EYEPIECES

BS.6010	HWF 10x/20 mm eyepiece
BS.6010-P	HWF 10x/20 mm eyepiece with pointer
BS.6010-C	HWF 10x/20 mm eyepiece with crosshairs
BS.6010-CN	HWF 10x/20 mm eyepiece with 10/100 micrometer
	and crosshairs
BS.6012	WF 12.5x/14 mm eyepiece
BS.6015	WF 15x/11 mm eyepiece
BS.6020	WF 20x/11 mm eyepiece
BS.6099	Pair of eyecups
OBJECTI	VES
BS.7104	E-plan EPL 4x/0.10 objective. WD 37.0 mm
BS.7110	E-plan EPL 10x/0.25 objective. WD 6.61 mm
BS.7120	E-plan EPL 20x/0.40 objective. WD 1.85 mm
BS.7140	E-plan EPL S40x/0.65 objective. WD 0.64 mm
BS.7160	E-plan EPL S60x/0.85 objective. WD 0.20 mm
BS.7100	E-plan EPL S100x/1.25 oil immersion objective. WD 0.19 mm
BS.7204	Plan PL 4x/0.10 objective. Working distance 17.9 mm
BS.7210	Plan PL 10x/0.25 objective. WD 8.8 mm
BS.7220	Plan PL 20x/0.40 objective. WD 8.6 mm
BS.7240	Plan PL S40x/0.65 objective. WD 0.56 mm
BS.7260	Plan PL S60x/0.85 objective. WD 0.25 mm
BS.7200	Plan PL S100x/1.25 oil immersion objective. WD 0.33 mm
BS.7510	E-Plan Phase EPLPH 10x/0.25 objective. WD 6.61 mm
BS.7520	E-Plan Phase EPLPH 20x/0.40 objective. WD 1.85 mm
BS.7540	E-Plan Phase EPLPH S40x/0.65 objective. WD 0.64 mm
BS.7500	E-Plan Phase EPLPH S100x/1.25 oil immersion objective.
	WD 0.19 mm
DC 0304	
BS.8204	E-plan EPLi 4x/0.10 infinity corrected IOS objective. WD 18.9 mm
BS.8210	E-plan EPLi 10x/0.25 infinity corrected IOS objective.
BC 0220	WD 5.95 mm
BS.8220	E-plan EPLi 20x/0.40 infinity corrected IOS objective.
DC 0040	WD 2.61 mm
BS.8240	E-plan EPLi S40x/0.65 infinity corrected IOS objective.
BC 0300	WD 0.78 mm
BS.8200	E-plan EPLi S100x/1.25 oil immersion infinity corrected IOS
	objective. WD 0.36 mm
BS.8404	Plan PLi 4x/0.10 infinity corrected IOS objective. WD 21.0 mm
BS.8410	Plan PLi 10x/0.25 infinity corrected IOS objective. WD 5.0 mm
BS.8420	Plan PLi 20x/0.40 infinity corrected IOS objective. WD 8.8 mm
BS.8440	Plan PLi S40x/0.65 infinity corrected IOS objective. WD 0.66 mm
BS.8460	Plan PLi S60x/0.85 infinity corrected IOS objective. WD 0.46 mm
BS.8400	Plan PLi Stoty (1.25 oil immersion infinity corrected IOS
55.5400	objective. WD 0.36 mm

BS.8510	E-Plan Phase EPLPHi 10x/0.25 infinity corrected IOS objective.
	WD 5.95 mm
BS.8520	E-Plan Phase EPLPHi 20x/0.40 infinity corrected IOS objective.
	WD 2.61 mm
BS.8540	E-Plan Phase EPLPHi S40x/0.65 infinity corrected IOS objective.
	WD 0.78 mm
BS.8500	E-Plan Phase EPLPHi S100x/1.25 oil immersion infinity corrected
	IOS objective. WD 0.36 mm
BS.8710	Plan Phase PLPHi 10x/0.25 infinity corrected IOS objective.
53.6710	WD 5.00 mm
BS.8720	
D3.8/20	Plan Phase PLPHi 20x/0.40 infinity corrected IOS objective. WD 8.80 mm
BS.8740	Plan Phase PLPHi S40x/0.65 infinity corrected IOS objective.
D3.0740	WD 0.66 mm
BS.8700	Plan Phase PLPHi S100x/1.25 oil immersion infinity corrected IOS
	objective. WD 0.36 mm
	NSERS AND ACCESSORIES
BS.9102	Abbe condenser 1,25 NA with slot for darkfield and phase
	contrast sliders
BS.9105	Swing-out Abbe condenser 0,9/1,25 NA
PHASE	CONTRAST ACCESSORIES
BS.9118	Zernike phase contrast kit with E-plan EPLPH 10/20/S40 and
	S100 oil phase contrast objectives, Zernike rotating condenser,
	telescope and green filter
BS.9120	Zernike phase contrast kit with E-plan EPLPHi 10/20/S40 and
	S100 oil phase contrast IOS infinity corrected objectives, Zernike
	rotating condenser, telescope and green filter
BS.9123	Zernike phase contrast kit with plan PLPH 10/20/S40 and S100 oil
	phase contrast objectives, Zernike rotating condenser, telescope
	and green filter
BS.9126	Zernike phase contrast kit with plan PLPHi 10/20/S40 and S100
	oil phase contrast IOS infinity corrected objectives, Zernike
	rotating condenser, telescope and green filter
BS.9148	Alignment telescope for bScope IOS version with 30 mm tubes
BS.9149	Alignment telescope for bScope non IOS version with 23.2 mm
	tubes
BS.9156	Phase contrast kit with Abbe condenser with slot for slider.
	E-plan EPLPH 10/S40x phase contrast objectives, slider with 10
	and 40x annuli, telescope and green filter
BS.9157	Phase contrast kit with Abbe condenser with slot for slider.
	E-plan EPLPH 20/S100x phase contrast objectives, slider with 20
	and 100x annuli, telescope and green filter
BS.9158	Phase contrast kit with Abbe condenser with slot for slider.
	E-plan EPLPH i 10/S40x phase contrast infinity corrected
	objectives, slider with 10 and 40x annuli, telescope and
	green filter



- **BS.9159** Phase contrast kit with Abbe condenser with slot for slider. E-plan EPLPHi 20/S100x phase contrast infinity corrected objectives, slider with 20 and 100x annuli, telescope and green filter
- **BS.9162** Phase contrast kit with Abbe condenser with slot for slider. Plan PLPHi 10/S40x phase contrast infinity corrected objectives, slider with 10 and 40x annuli, telescope and green filter
- **BS.9163** Phase contrast kit with Abbe condenser with slot for slider. Plan PLPHi 20/S100x phase contrast infinity corrected objectives, slider with 20 and 100x annuli, telescope and green filter

POLARIZATION ATTACHMENTS

- **BS.9647** Polarization polarizer 16 mm diameter for slider under bScope head
- **BS.9651** Polarization attachment for lamphouse of bScope with 360° scale
- **BS.9660** Polarization kit: analyzer under head and polarizer on lamphouse

CAMERA ACCESSORIES

AE.5130	Universal Ø 23.2 mm tube adapter with built-in $2x$ lens for SLR
	photo camera with APS-C sensor. Needs T2 adapter
AE.5025	T2 ring for Nikon D SLR digital camera

AE.5040 T2 ring for Canon EOS SLR digital camera

MISCELLANEOUS

BS.9102	Abbe condenser 1.25 NA with slot for darkfield and phase	
	contrast sliders. Without darkfield slider and without phase	
	contrast sliders	
BS.9170	Slider with darkfield stop for Abbe condenser with slot for	
	bScope. Needs condenser with slot (BS.9102)	
BS.9880	Köhler attachment for bScope	
BS.9900	Aluminum transport case for bScope	
BS.9993	NeoLED™ replacement unit	

AE.1370 Set rechargeable batteries

DISPOSABLES

PB.5155	Microscope slides 76 x 26 mm, ground edges, 50 pieces
PB.5157-W	Microscope slides 76 x 26 mm, ground edges and frosted side
	white color, 50 pieces per pack
PB.5157-B	Microscope slides 76 x 26 mm, ground edges and frosted side
	blue color, 50 pieces per pack
PB.5165	Cover glasses 18 x 18 mm, 0.13-0.17 mm, 100 pieces
PB.5168	Cover glasses 22 x 22 mm, 0.13-0.17 mm, 100 pieces
PB.5245	Lens cleaning paper, 100 sheets per pack
PB.5255	Immersion oil, 25 ml. Refraction index n = 1.482
PB.5274	lso propyl alcohol 99%, 200 ml
PB.5275	Cleaning kit: lens fluid, lint free lens tissue/paper, brush, air
	blower, cotton swabs
PB.5276	Microscope maintenance and servicing kit, 16pcs: cleaning
	brush, 6 pcs screwdriver set, air blower, 3 pcs Allen key,
	1.5, 2, 2.5 mm, lens cleaning fluid 20 ml, cleaning cloth
	140 x 140 mm, 100 pcs Lens tissue sheets, tube of maintenance
	grease, 10 ml bottle of oil, packed in a nice toolbox

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