

B and B+ series

HIGHLIGHTS

- Monocular, binocular and trinocular models
- WF 10x/18 mm or WF 10x/20 mm eyepiece(s)
- Revolving reversed nosepiece for 4 or 5 objectives
- Semi plan, plan IOS, semi plan phase and plan phase objectives
- Integrated X-Y mechanical stage
- Coaxial coarse and fine adjustment with adjustable rack-stop
- Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder
- 1 W LED illumination with rechargeable batteries and integrated power supply
- 20 W halogen illumination with integrated power supply
- 5 years warranty

TECHNICAL SPECIFICATIONS

EYEPIECE(S)

- Standard models with wide field WF10x/18 mm eyepieces
- The B+ series come with wide field WF10x/20 mm eyepieces
- The eyepiece of monocular models can be supplied with a pointer

HEAD

• All heads are 360° rotatable and equipped with 30° inclined tubes. Tube length 160 mm

 \bullet Binocular and trinocular models are equipped with a diopter $\pm\,5$ adjustment on left eyepiece

- The interpupillary distance is adjustable between 48 to 76 mm
- The B series can also be supplied with a discussion head

NOSEPIECE

Standard models with revolving and reversed quadruple nosepiece, the B+
series have quintuple reversed nosepiece

OBJECTIVES

• A large range of semi plan, plan, semi plan phase, plan phase or plan IOS 4x/0.10, 10x/0.25, S40x/0.65 and

S100x oil immersion objectives can be supplied with the B and B+ series

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

 \cdot Coaxial coarse and fine adjustments, 200 graduations, 1 μm per graduation, 200 μm per rotation, total travel approximately 23 mm

Supplied with an adjustable rack stop to prevent damage to sample and objectives

• The coarse adjustments are equipped with friction control



STAGE

• 125 x 135 mm with mechanical 75 x 35 mm X-Y translation stage and Vernier scale. Removable specimen holder

Stages with heating elements and temperature PID controller are also
available on demand

CONDENSER

• Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder.

• Models for phase contrast with references 86.3xx are supplied with a Zernike disc condenser with phase contrast rings for 10/20/S40x and

S100x phase contrast objectives.

• Models for phase contrast with references 86.4xx are supplied with a slider with phase ring for S40x phase contrast objective



CARDIOID MIRROR CONDENSER FOR DARK FIELD

• The 86.091-DFLED model is supplied with an oil immersion condenser with cardioid mirrors, a 5 W integrated NeoLED[™] illumination and a S100x objective

with built-in iris diaphragm for real 1000x dark field applications

ILLUMINATION

• The microscopes of the B and B+ series are equipped with either a 1 W LED adjustable illumination system for increased light output

with 3 rechargeable batteries for cordless operation or a 20 W 6 V halogen adjustable illumination.

• All models have an integrated power supply for cordless operation.

• 110 and 230 V mains versions available for halogen models

ILLUMINATION FOR DARK FIELD

- 5 W NeoLED[™] adjustable illumination for model 86.091-DFLED.
- By using AE.3612 and 86.521 an existing brightfield microscope can be upgraded to dark field

PACKAGING

• Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil for models with S100x objective.

- Models with a 20W halogen illumination are supplied with a spare bulb and
- a blue filter, models with 1 W LED illumination are supplied with white filter.
- All packed in a polystyrene box





MODELS WITH SEMI PLAN OBJECTIVES

	Monocular	Binocular	Trinocular	WF 10 x 18 mm	WF 10 x 20 mm	4 objectives nosepiece	5 objectives nosepiece	Semi plan 4x/10x/S40x/S100x oil objectives	20 W halogen
86.010	•			•		•		•	•
86.025		•		•		•		•	•
86.041			•	•		•		•	•
86.010-LED	•			•		•		•	
86.025-LED		•		•		•		•	
86.041-LED			•	•		•		•	
86.019-LED	•				•	•		•	
86.029-LED		•			•	•		•	
86.049-LED			•		•	•		•	

MODELS WITH PLAN OBJECTIVES

	Monocular	Binocular	Trinocular	WF 10x 18 mm	WF 10x 20 mm	4 objectives nosepiece	5 objectives nosepiece	Plan 4x/10x/S40x/ S100x oil objectives	20 W halogen
86.060	•			•		•		•	•
86.075		•		•		•		•	•
86.091			•	•		•		•	·
86.060-LED	•			•		•		•	
86.075-LED		•		•		•		•	
86.091-LED			•	•		·		•	
86.069-LED	•				•		•	•	
86.079-LED		·			·		•	•	
86.099-LED			•		•		•	•	

MODELS WITH PLAN IOS INFINITY CORRECTED OBJECTIVES

	Binocular	Trinocular	WF 10x 18 mm	WF 10x 20 mm	4 objectives nosepiece	5 objectives nosepiece	Semi plan IOS 4x/10x/S40x/ S100x oil objectives	Plan IOS 4x/10x/S40x/ S100x oil objectives	20 W halogen
86.125	•		•		•		•		•
86.141		•	•		•		•		•
86.125-LED	•		•		•		•		
86.141-LED		•	•		•		•		
86.129-LED	•			•		•		•	
86.149-LED		•		•		•		•	

MODELS WITH SEMI PLAN PHASE CONTRAST OBJECTIVES

	Monocular	Binocular	Trinocular	WF 10 x 18 mm	WF 10 x 20 mm	4 objectives nosepiece	5 objectives nosepiece	Semi plan phase 10x/20x/540x/S100x oil objectives	20 W halogen
86.310	•			•		•		•	•
86.325		•		•		•		•	•
86.341			•	•		•		•	•
86.310-LED	•			•		•		•	
86.325-LED		•		•		•		•	
86.341-LED			•	•		•		•	
86.319-LED	•				•		•	•	
86.329-LED		·			•		•	•	
86.349-LED			•		•		•	•	



MODELS WITH PLAN PHASE CONTRAST OBJECTIVES

	Monocular	Binocular	Trinocular	WF 10 x 18 mm	WF 10 x 20 mm	4 objectives nosepiece	5 objectives nosepiece	Plan phase 10x/20x/S40x/S100x oil objectives	20 W halogen
86.360	•			•		•		•	•
86.375		•		•		•		•	•
86.391			•	•		•		·	•
86.360-LED	•			•		•		•	
86.375-LED		•		•		•		•	
86.391-LED			•	•		•		•	
86.369-LED	•				•		•	•	
86.379-LED		•			•		•	•	
86.399-LED			•		•		•	•	

MODELS WITH SEMI PLAN OBJECTIVES AND PLAN PHASE S40X OBJECTIVE

	Monocular	Binocular	Trinocular	WF 10 x 18 mm	4 objectives nosepiece	Semi plan 4x/10x/S100x oil objectives	Phase S40x	20 W halogen
86.410	•			•	•	•	•	•
86.425		•		•	•	•	•	•
86.441			•	•	•	•	•	•
86.410-LED	•			•	•	•	•	
86.425-LED		•		•	•	·	•	
86.441-LED			•	•	•	•	•	

ACCESSORIES AND SPARE PARTS

ACCES.		
86.572-P	Wide field eyepiece HWF 10x/18 mm with pointer	;
86.572	Wide field eyepiece HWF 10x/18 mm	;
86.575	Wide field eyepiece HWF 10x/20 mm	;
86.573	Wide field eyepiece WF 15x/12 mm	
80.882	Wide field eyepiece WF 20x/10 mm	;
86.574	Micrometer eyepiece HWF 10x/18 mm, 10 mm/100,	
	with adjustable eye lens	
AE.1110	Stage micrometer 1 mm, 100 parts	;
AE.1111	Stage micrometer 2mm, 200 parts	
80.839	Eyecup with inner diameter 28 mm	
86.812	Discussion head with one vertical and one oblique tube.	;
	Without eyepieces	
86.891	Semi plan SMP 4x/0.10 objective. Working distance 23.13 mm	
86.893	Semi plan SMP 10x/0.25 objective. Working distance 4.09 mm	
86.894	Semi plan SMP 20x/0.40 objective. Working distance 1.97 mm	
86.897	Semi plan SMP S40x/0.65 objective. Working distance 0.6 mm	
80.899	Achromatic S60x/0.85 objective. Working distance 0.20 mm	
86.900	Semi plan SMP S100x/1.25 oil immersion objective.	
	Working distance 0.38 mm	
86.511	Plan PL 4x/0.10 objective. Working distance 17.9 mm	

00.511	Plan PL 4X/0.10 objective. working distance 17.9 mm

- 86.513 Plan PL 10x/0.25 objective. Working distance 8.8 mm
- 86.514 Plan PL 20x/0.40 objective. Working distance 8.6 mm
- 86.517 Plan PL S40x/0.65 objective. Working distance 0.56 mm 86.519 Plan PL S60x/0.85 objective. Working distance 0.25 mm 86.520 Plan PL S100x/1.25 oil immersion objective. Working distance 0.33 mm 86.521 Plan PL S100x/1.25 oil immersion objective with iris diaphragm. Working distance 0.33 mm 86.413 Semi plan phase PH 10x/0.25 objective. Working distance 6.61 mm 86.414 Semi plan phase PH 20x/0.40 objective. Working distance 1.85 mm 86.417 Semi plan phase PH S40x/0.65 objective. Working distance 0.64 mm 86.420 Semi plan phase PH S100x/1.25 oil immersion objective. Working distance 0.19 mm 86.313 Plan phase PLPH 10x/0.25 objective. Working distance 8.8 mm Plan phase PLPH 20x/0.40 objective. Working distance 8.6 mm 86.314 86.317 Plan phase PLPH S40x/0.65 objective. Working distance 0.65 mm 86.320 Plan phase PLPH S100x/1.25 oil immersion objective. Working distance 0.33 mm





86.560	Plan PL 4x /0.12 infinity corrected IOS objective.	AE.5025
	Working distance 19.75 mm	AE.5040
86.562	Plan PL 10x/0.25 infinity corrected IOS objective.	
	Working distance 5 mm	
86.564	Plan PL 20x/0.40 infinity corrected IOS objective.	
	Working distance 8.8 mm	86.820
86.566	Plan PL S40x/0.65 infinity corrected IOS objective.	
	Working distance 0.66 mm	DC.1320
86.567	Plan PL S60x/0.80 infinity corrected IOS objective.	
	Working distance 0.26 mm	DC.1324
86.568	Plan PL S100x/1.25 oil immersion infinity corrected	
	IOS objective. Working distance 0.36 mm	DC.1326
86.172	Dark field stop to be placed in filter holder.	DC.1328
	Suitable for objectives from 10x up to S40x	
86.627	Dark field N.A. 1.40 oil immersion condenser	
	with cardioid mirrors. To be used with a LE.5241	86.851
	flexible light conductor and a cold light source	
	LE.5210, LE.5211 or LE.5211-LED	86.852
86.613	Simple 40x phase contrast set consisting of a N.A. 1.25 condenser	
	with a plan phase PLPH S40x N.A. 0.65 objective and associated	86.860
	phase plate. Delivered with centering telescope and green filter	
86.615	Zernike medium dark phase contrast set.	86.961
	The set consists of a disc phase N.A.1.25 condenser	86.970
	with rotating wheel of phase annuli and an aperture	86.971
	for bright field illumination. Complete with	
	semi plan phase DIN PH 10x/0.25, PH 20x/0.40,	AE.5202
	PH S40x/0.65 and PH S100x/1.25 oil immersion	AE.5203
	objectives. Delivered with centering telescope and	AE.5204
	green filter	AE.5205
		AE.5207
86.617	Zernike medium dark phase contrast set.	
	The set consists of a disc phase N.A.1.25 condenser	AE.5227
	with rotating wheel of phase annuli and an aperture	
	for bright field illumination. Complete with plan	86.889
	phase DIN PLPH 10x/0.25, PH 20x/0.40, PH	86.101
	S40x/0.65 and PH S100x/1.25 oil immersion	AE.5227
	objectives.	
	Delivered with centering telescope and green filter	PB.5155
		PB.5165
86.806	Mirror with adapter for B and B+ series with halogen	PB.5168
	illumination only	PB.5245
		PB.5255
AE.5168-B	Heating stage with PID controller up to 50°C.	PB.5274
	Only symplical with a new misroscope	PB.5275
	Only supplied with a new microscope	FD.J2/J
AE.5130	Universal SLR camera adapter with 2x projection	r 0.327 3

AE.5025	
	T2 adapter for Nikon D digital SLR cameras
AE.5040	T2 adapter for Canon EOS digital SLR cameras
	Other T2 adapters on request
86.820	SLR camera adapter with 2.5x and 4x magnification lenses
DC 4330	
DC.1320	1x objective with C-mount for cameras with 1" sensor. Suitable for 23.2 mm tubes
DC 1224	
DC.1324	0.5x objective with C-mount for cameras with 1/2" sensor. Suitable for 23.2 mm tubes
DC.1326	0.33x objective with C-mount for cameras with 1/3" sensor.
DC.1320	Suitable for 23.2 mm tubes
DC 1339	
DC.1328	0.67x objective with C-mount for cameras with 2/3" sensor.
	Suitable for 23.2 mm tubus
86.851	Polarizing attachment for B or B+ series
80.851	with a halogen illumination
86.852	Polarizing attachment for B or B+ series
00.052	with a LED illumination
86.860	Attachable Köhler diaphragm to be mounted on lamp house.
	Only suitable for models with halogen illumination
86.961	Plastic case for polystyrene packaging of B series
86.970	Aluminium Flight case
86.971	Aluminium case
AE.5202	Blue filter, 32 mm diameter
AE.5202 AE.5203	Blue filter, 32 mm diameter Yellow filter, 32 mm diameter
AE.5203	Yellow filter, 32 mm diameter
AE.5203 AE.5204	Yellow filter, 32 mm diameter Neutral grey filter, 32 mm diameter
AE.5203 AE.5204 AE.5205	Yellow filter, 32 mm diameter Neutral grey filter, 32 mm diameter Green filter, 32 mm diameter
AE.5203 AE.5204 AE.5205	Yellow filter, 32 mm diameter Neutral grey filter, 32 mm diameter Green filter, 32 mm diameter Blue filter acrylic, 31.8 mm diameter
AE.5203 AE.5204 AE.5205 AE.5207 AE.5227	Yellow filter, 32 mm diameter Neutral grey filter, 32 mm diameter Green filter, 32 mm diameter Blue filter acrylic, 31.8 mm diameter Glass fuses 250 V 1 A, 10 pieces
AE.5203 AE.5204 AE.5205 AE.5207 AE.5227 86.889	Yellow filter, 32 mm diameter Neutral grey filter, 32 mm diameter Green filter, 32 mm diameter Blue filter acrylic, 31.8 mm diameter Glass fuses 250 V 1 A, 10 pieces Spare halogen bulb 6 V 20 W
AE.5203 AE.5204 AE.5205 AE.5207 AE.5227 86.889 86.101	Yellow filter, 32 mm diameter Neutral grey filter, 32 mm diameter Green filter, 32 mm diameter Blue filter acrylic, 31.8 mm diameter Glass fuses 250 V 1 A, 10 pieces Spare halogen bulb 6 V 20 W Spare LED module for B series
AE.5203 AE.5204 AE.5205 AE.5207 AE.5227 86.889	Yellow filter, 32 mm diameter Neutral grey filter, 32 mm diameter Green filter, 32 mm diameter Blue filter acrylic, 31.8 mm diameter Glass fuses 250 V 1 A, 10 pieces Spare halogen bulb 6 V 20 W
AE.5203 AE.5204 AE.5205 AE.5207 AE.5227 86.889 86.101	Yellow filter, 32 mm diameter Neutral grey filter, 32 mm diameter Green filter, 32 mm diameter Blue filter acrylic, 31.8 mm diameter Glass fuses 250 V 1 A, 10 pieces Spare halogen bulb 6 V 20 W Spare LED module for B series Glass fuses 1 A 250 V, 10 pieces
AE.5203 AE.5204 AE.5205 AE.5207 AE.5227 86.889 86.101 AE.5227	Yellow filter, 32 mm diameter Neutral grey filter, 32 mm diameter Green filter, 32 mm diameter Blue filter acrylic, 31.8 mm diameter Glass fuses 250 V 1 A, 10 pieces Spare halogen bulb 6 V 20 W Spare LED module for B series Glass fuses 1 A 250 V, 10 pieces Microscope slides 76 x 26 mm, ground edges, 50 pieces
AE.5203 AE.5204 AE.5205 AE.5207 AE.5227 86.889 86.101 AE.5227 PB.5155	Yellow filter, 32 mm diameter Neutral grey filter, 32 mm diameter Green filter, 32 mm diameter Blue filter acrylic, 31.8 mm diameter Glass fuses 250 V 1 A, 10 pieces Spare halogen bulb 6 V 20 W Spare LED module for B series Glass fuses 1 A 250 V, 10 pieces Microscope slides 76 x 26 mm, ground edges, 50 pieces Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
AE.5203 AE.5204 AE.5205 AE.5207 AE.5227 86.889 86.101 AE.5227 PB.5155 PB.5165	Yellow filter, 32 mm diameter Neutral grey filter, 32 mm diameter Green filter, 32 mm diameter Blue filter acrylic, 31.8 mm diameter Glass fuses 250 V 1 A, 10 pieces Spare halogen bulb 6 V 20 W Spare LED module for B series Glass fuses 1 A 250 V, 10 pieces Microscope slides 76 x 26 mm, ground edges, 50 pieces Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
AE.5203 AE.5204 AE.5205 AE.5207 AE.5227 86.889 86.101 AE.5227 PB.5155 PB.5165 PB.5168	Yellow filter, 32 mm diameter Neutral grey filter, 32 mm diameter Green filter, 32 mm diameter Blue filter acrylic, 31.8 mm diameter Glass fuses 250 V 1 A, 10 pieces Spare halogen bulb 6 V 20 W Spare LED module for B series Glass fuses 1 A 250 V, 10 pieces Microscope slides 76 x 26 mm, ground edges, 50 pieces Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
AE.5203 AE.5204 AE.5205 AE.5207 AE.5227 86.889 86.101 AE.5227 PB.5155 PB.5165 PB.5168 PB.5245	Yellow filter, 32 mm diameter Neutral grey filter, 32 mm diameter Green filter, 32 mm diameter Blue filter acrylic, 31.8 mm diameter Glass fuses 250 V 1 A, 10 pieces Spare halogen bulb 6 V 20 W Spare LED module for B series Glass fuses 1 A 250 V, 10 pieces Microscope slides 76 x 26 mm, ground edges, 50 pieces Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
AE.5203 AE.5204 AE.5207 AE.5227 AE.5227 86.889 86.101 AE.5227 PB.5155 PB.5165 PB.5165 PB.5245 PB.5255	Yellow filter, 32 mm diameter Neutral grey filter, 32 mm diameter Green filter, 32 mm diameter Blue filter acrylic, 31.8 mm diameter Glass fuses 250 V 1 A, 10 pieces Spare halogen bulb 6 V 20 W Spare LED module for B series Glass fuses 1 A 250 V, 10 pieces Microscope slides 76 x 26 mm, ground edges, 50 pieces Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces Lens cleaning paper, 100 sheets per pack Immersion oil, n = 1.482 (25 ml)
AE.5203 AE.5204 AE.5207 AE.5227 AE.5227 86.889 86.101 AE.5227 PB.5155 PB.5165 PB.5168 PB.5255 PB.5255 PB.5274	Yellow filter, 32 mm diameter Neutral grey filter, 32 mm diameter Green filter, 32 mm diameter Blue filter acrylic, 31.8 mm diameter Glass fuses 250 V 1 A, 10 pieces Spare halogen bulb 6 V 20 W Spare LED module for B series Glass fuses 1 A 250 V, 10 pieces Microscope slides 76 x 26 mm, ground edges, 50 pieces Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces Lens cleaning paper, 100 sheets per pack Immersion oil, n = 1.482 (25 ml) Isopropyl alcohol 99% (200 ml)

Euromex Microscopen bv • Papenkamp 20 • 6836 BD Arnhem • The Netherlands • T + 31 (0) 26 323 22 11 • F + 31 (0) 26 323 28 33 • info@euromex.com • www.euromex.com

www.tuv.com