

## B+ series fluorescence

### HIGHLIGHTS

- Trinocular version
- WF10x/20 mm eyepieces
- Reversed nosepiece for maximum 5 objectives
- Plan and plan fluarex IOS DIN objectives
- Integrated X-Y mechanical stage
- Coaxial coarse and fine adjustment with adjustable rack stop
- Height adjustable Abbe condenser with iris diaphragm and filter holder
- Transmitted LED illumination with rechargeable batteries and integrated power supply
- Epi-fluorescence illumination with 4 LEDs or 100 W mercury vapor lamp
- Fluorescence filters and dichroic mirror for blue, green, violet and ultraviolet excitation



86.179-LED

### TECHNICAL SPECIFICATIONS

#### EYEPIECE(S)

- Wide field WF10x/20 mm eyepieces

#### HEADS

- Trinocular 360° rotatable head with 30° inclined tubes.
- One tube is equipped with diopter adjustment
- The interpupillary distance is adjustable between 48 to 76 mm
- Trinocular light split 100:0:0:100

#### NOSEPIECE

- Nosepiece for maximum 5 objectives and mounted on ball bearings

#### OBJECTIVES

- The 86.179-LED and 86.178-LED models are supplied with plan 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion infinity corrected IOS DIN objectives
- The 86.180-LED and 86.181-LED models are supplied with plan fluarex 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion infinity corrected IOS DIN objectives
- These objectives allow observation in violet and ultraviolet excitation
- All S40x and S100x oil immersion objectives are spring loaded
- All optics have an anti-reflection coating for maximum light throughput and are anti-fungus treated

#### FOCUSING

- 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 stage with 75 x 35 mm X-Y mechanical stage. With Vernier 0.1 mm scale
- Removable slide holder
- Stages with heating elements and temperature PID controller are also available

#### CONDENSER

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

## TRANSMITTED ILLUMINATION

- Adjustable 3 W LED illumination with 3 rechargeable batteries
- Batteries for cordless operation
- All models have an integration 100 - 240 V power supply

## FLUORESCENCE ATTACHMENT

- Epi-illumination with 4 LEDs for fluorescence excitation from 460 to 470 nm (blue), 520 to 530 nm (green), 390 to 400 (violet) and 360 to 370 nm (ultraviolet). External 100-240 V power supply
- Epi-illumination 100 W mercury vapor lamp. External 110 or 230 V power supply
- The fluorescence attachment are equipped with dichroic mirrors and fluorescence filters for blue, green, violet and ultra-violet excitation

## PACKAGING

- Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil for models with S100x objective
- Supplied with orange UV protection shield
- All packed in a polystyrene box

## MODELS

	Plan PL 4x/10x/S40x/S100x IOS objectives	Plan fluarex PLF 4x/10x/S40x/S100x IOS objectives	Epi-fluorescence 4x NeoLED™ excitation	Epi-fluorescence 100 W Hg excitation
86.179-LED	•		•	
86.180-LED		•	•	
86.178-LED	•			•
86.181-LED		•		•

The Fluarex objectives are suitable for fluorescence excitation in the violet and ultraviolet region 4 NeoLED™ fluorescence:

Blue (EX 460 to 470 nm, EM > 515 nm), Green (EX 520 to 530 nm, EM > 590 nm),

Violet (EX 395 to 415 nm, EM 425 nm) and Ultraviolet (EX 355 to 375 nm, EM > 455 nm)

## ACCESSORIES AND SPARE PARTS

<b>86.575</b>	Wide field eyepiece WF 10x/20 mm	<b>86.567</b>	Plan PL S60x/0.80 infinity corrected IOS objective. Working distance 0.26 mm
<b>86.573</b>	Wide field eyepiece WF 15x/12 mm	<b>86.568</b>	Plan PL S100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.36 mm
<b>80.882</b>	Wide field eyepiece WF 20x/10 mm	<b>AE.1111</b>	Micrometer slide 76 x 26mm with 2mm/200 reticle
<b>86.574</b>	Micrometer eyepiece HWF10x/18, 10mm/100, with adjustable eye lens	<b>AE.5130</b>	Universal photo adapter with 2x projection lens. Need a T2 adapter
<b>80.839</b>	Eyecup, ø 28 mm, one piece	<b>AE.5020</b>	T2 adapter for Nikon D digital SLR cameras
<b>86.550</b>	Plan fluarex 4x /0.12 infinity corrected IOS objective. Working distance 19.75 mm	<b>AE.5040</b>	T2 adapter for Canon EOS digital SLR cameras <i>Other T2 adapters on request</i>
<b>86.562</b>	Plan fluarex 10x/0.25 infinity corrected IOS objective. Working distance 5 mm	<b>86.860</b>	Köhler diaphragm, pre-centered, to be placed on lamp house
<b>86.564</b>	Plan fluarex 20x/0.40 infinity corrected IOS objective. Working distance 8.8 mm	<b>86.101</b>	LED replacement unit (for 86.xxx-LED models)
<b>86.566</b>	Plan fluarex S40x/0.65 infinity corrected IOS objective. Working distance 0.66 mm	<b>86.806</b>	Mirror adapter for B and B+ series with halogen illumination only
<b>86.568</b>	Plan fluarex S100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.36 mm	<b>AE.5202</b>	Blue filter ø 32 mm
<b>86.560</b>	Plan PL 4x /0.10 infinity corrected IOS objective. Working distance 19.75 mm	<b>AE.5203</b>	Yellow filter ø 32 mm
<b>86.562</b>	Plan PL 10x/0.25 infinity corrected IOS objective. Working distance 5 mm	<b>AE.5204</b>	Neutral density filter ø 32 mm
<b>86.564</b>	Plan PL 20x/0.40 infinity corrected IOS objective. Working distance 8.8 mm	<b>AE.5205</b>	Blue acrylic filter ø 32mm
<b>86.566</b>	Plan PL S40x/0.65 infinity corrected IOS objective. Working distance 0.66 mm	<b>AE.5227</b>	Spare fuses 250 V, 1A, box of 10 pieces
		<b>PB.5155</b>	Microscope slides 76 x 26 mm, ground edges, 50 pieces
		<b>PB.5165</b>	Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
		<b>PB.5168</b>	Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
		<b>PB.5245</b>	Lens cleaning paper, 100 sheets per pack
		<b>PB.5255</b>	Immersion oil, n = 1.482 (25 ml)
		<b>PB.5274</b>	Isopropyl alcohol 99% (200 ml)
		<b>PB.5275</b>	Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs