

B-380 Series

Upright laboratory microscopes



B-380 Series

Revolutionary - Reliable

Your routine work requires long hours on your microscope.

Easily accessible controls, including the stage drive, fine focus and brightness control combined with Optika's revolutionary ALC system grants maximum comfort and relaxed working conditions.

Standard version

- B-382PL-ALC** Binocular microscope E-PLAN objectives , with **Automatic Light Control**.
- B-383PL** Trinocular microscope E-PLAN objectives.
- B-382PLi-ALC** Binocular microscope E-PLAN IOS objectives , with **Automatic Light Control**.
- B-383PLi** Trinocular microscope E-PLAN IOS objectives.
- B-382PH-ALC** Binocular phase contrast microscope E-PLAN objectives , with **Automatic Light Control**.
- B-383PH** Trinocular phase contrast microscope E-PLAN objectives.
- B-382PHi-ALC** Binocular phase contrast microscope E-PLAN IOS objectives , with **Automatic Light Control**.
- B-383PHi** Trinocular phase contrast microscope E-PLAN IOS objectives.

Special version

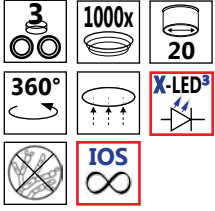
- B-383POL** Trinocular polarizing microscope, E-PLAN IOS objectives. (Information in **POL SERIES**)
- B-383MET** Trinocular metallurgical microscope, PLAN IOS MET obj. , X-LED incident & transmitted illumination. (Information in **INDUSTRY SERIES**)
- B-383FL** Trinocular HBO fluorescence microscope, E-PLAN IOS objectives, B&G filtersets. (Information in **FLUO SERIES**)
- B-383LD1** Trinocular LED fluorescence microscope, E-PLAN IOS objectives, B filterset. (Information in **FLUO SERIES**)
- B-383LD2** Trinocular LED fluorescence microscope, E-PLAN IOS objectives, B&G filtersets. (Information in **FLUO SERIES**)
- B-383DK** Trinocular darkfield microscope E-PLAN objectives, for blood analysis.



B-380 Series

Your dedicated routine microscope

B-383PHi



Optical system & objectives

The models of the B-380 series are equipped, depending on the various models, with two different types of optical system: the standard 160mm one and the infinity corrected system (IOS). In both cases the field diameter of the eyepieces is 20mm.

Microscope stand

Modern and ergonomic, this stand is made of die-cast aluminium. Coarse and fine focusing (graduation: 0.002mm) with coaxial control knobs.

Adjustable focusing tension and limit stop.

Head

Available in binocular or trinocular version.

The heads are equipped with interpupillary distance control (55-75 mm) as well as with dioptic compensation.

All heads are 360° rotatable and 30° inclined.

Illumination

The illuminating system consists of X-LED³ source.

The brightness can be adjusted by a rheostat located on the left side of the microscope base.

Stage

Innovative belt drive system

Design

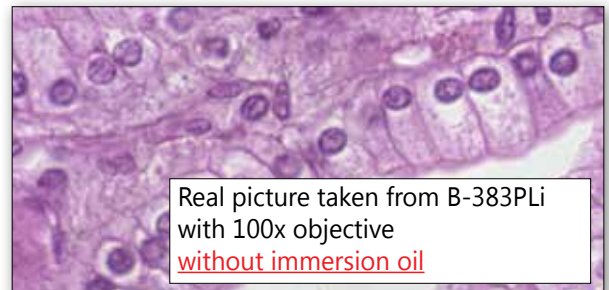
New ergonomic design

X-LED³ - The future of illumination

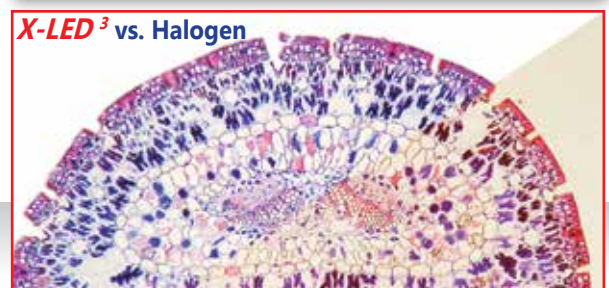
OPTIKA is proud to introduce its own revolutionary LED powered illumination system. Developed by our R&D dept. it consists of a new combination of LED and optical technology.

A new high-efficiency single chip LED works in combination with a special optical lens, which allows to double the intensity of the light generated by the LED itself. The result is a quantity of light equivalent to the light generated by a standard 50W halogen bulb, but with a colour temperature of 6300K. It means white light instead of the yellow one produced by halogen bulbs.

The electrical consumption (3.6W only) shows the high efficiency of the system: same light intensity with less than 10% of the consumption of a standard halogen bulb. Last but not least, the lifetime of our LED is 50.000 hours, instead of 1.500 hours ...!



Real picture taken from B-383PLi with 100x objective without immersion oil



X-LED³ vs. Halogen

B-380 Series - Models

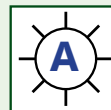


B-382PL-ALC

2	1000x	20
360°	X-LED ³	
	A	

ALC - Automatic light control

The level of light is adjusted by the microscope in order to maintain the same level as the one the user has chosen, no matter if the aperture of the diaphragm changes, another objective is inserted, opacity of the sample changes, etc.



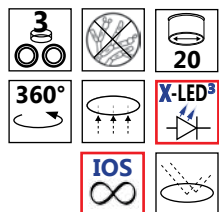
B-383FL

3	1000x	20
360°	X-LED ³	

More information in
FLUO SERIES

B-380 Series - Models

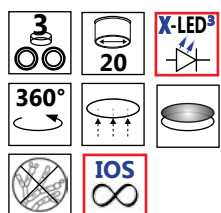
B-383MET



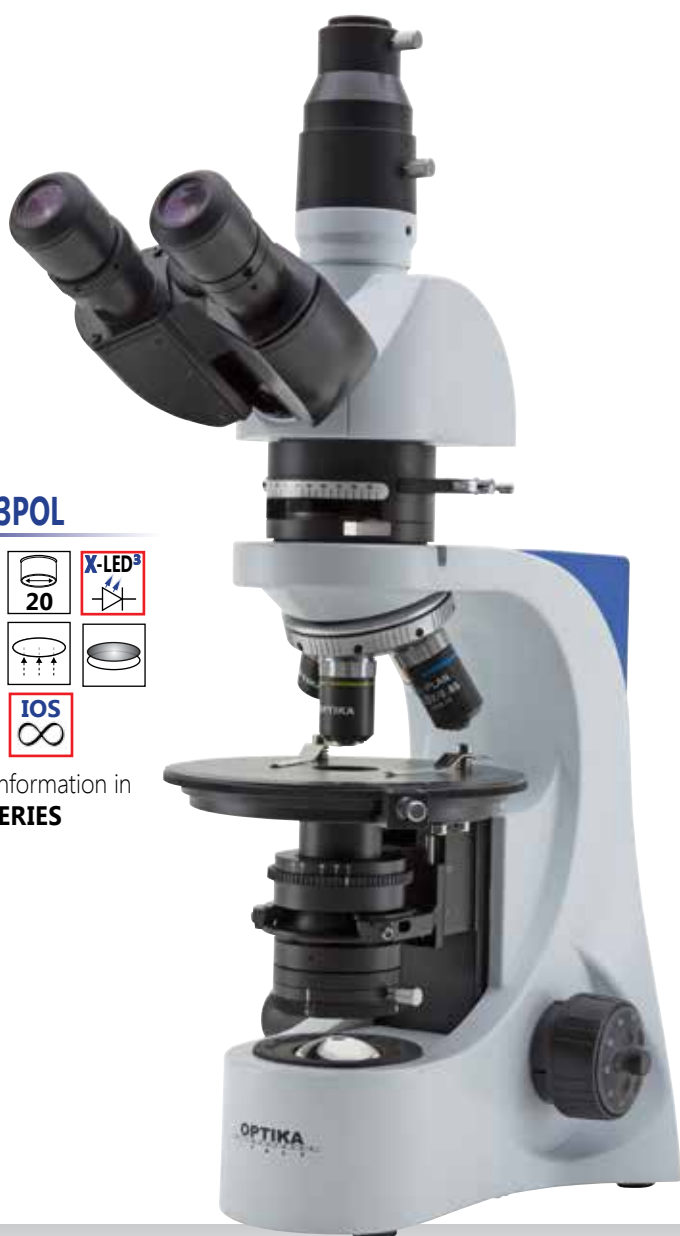
More information in
INDUSTRY SERIES



B-383POL



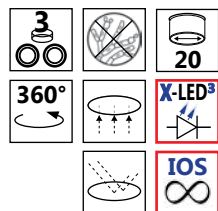
More information in
POL SERIES



B-380 Series - Models

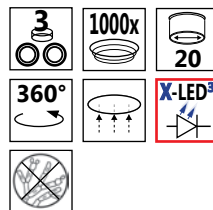


B-383LD1

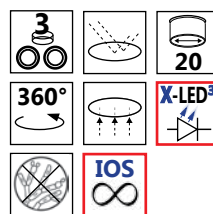


More information in
FLUO SERIES

B-383DK



B-383LD2



More information in
FLUO SERIES

B-380 Series - Technical specifications

Model	Head	Eyepiece	Objectives	Nosepiece	Stage	Focusing	Condenser	Illuminator	Power supply
B-382PL-ALC	Binocular 360°rotating 30° inclined	Wide Field 10X/20 mm	E-PLAN 4x, 10x, 40x, 100x (oil)	Quintuple nosepiece, reversed	Double layer mechanical sliding stage, 160x140mm, moving range 78x54mm	Coaxial coarse and fine focusing with limit stop	Abbe condenser, sliding-in, N.A. 1.25 with centering system	X-LED ³ , with Automatic Light Control	External power supply: Input 100-240Vac 50-60Hz. Output 6Vdc 1A
B-383PL	Trinocular 360°rotating 30° inclined	Wide Field 10X/20 mm	E-PLAN 4x, 10x, 40x, 100x (oil)	Quintuple nosepiece, reversed	Double layer mechanical sliding stage, 160x140mm, moving range 78x54mm	Coaxial coarse and fine focusing with limit stop	Abbe condenser, sliding-in, N.A. 1.25 with cente- ring system.	X-LED ³ , with manual brightness control	External power supply: Input 100-240Vac 50-60Hz. Output 6Vdc 1A
B-382PLi-ALC	Binocular 360°rotating 30° inclined	Wide Field 10X/20 mm	IOS E-PLAN 4x, 10x, 40x, 100x (oil)	Quintuple nosepiece, reversed	Double layer mechanical sliding stage, 216x150mm, moving range 78x54mm, Belt-drive in X direction	Coaxial coarse and fine focusing with limit stop	Abbe condenser, sliding-in, N.A. 1.25 with centering system.	X-LED ³ , with Automatic Light Control	External power supply: Input 100-240Vac 50-60Hz. Output 6Vdc 1A
B-383PLi	Trinocular 360°rotating 30° inclined	Wide Field 10X/20 mm	IOS E-PLAN 4x, 10x, 40x, 100x (oil)	Quintuple nosepiece, reversed	Double layer mechanical sliding stage, 216x150mm, moving range 78x54mm, Belt-drive in X direction	Coaxial coarse and fine focusing with limit stop	Abbe condenser, sliding-in, N.A. 1.25 with centering system.	X-LED ³ , with manual brightness control	External power supply: Input 100-240Vac 50-60Hz. Output 6Vdc 1A
B-382PH-ALC	Binocular 360°rotating 30° inclined	Wide Field 10X/20 mm	PLAN 4x, 10xPh, 40xPh, 100xPh (oil)	Quintuple nosepiece, reversed	Double layer mechanical sliding stage, 160x140mm, moving range 78x54mm	Coaxial coarse and fine focusing with limit stop	Phase condenser (10x/20x, 40x, 100x) with darkfield (dry) and brightfield	X-LED ³ , with Automatic Light Control	External power supply: Input 100-240Vac 50-60Hz. Output 6Vdc 1A
B-383PH	Trinocular 360°rotating 30° inclined	Wide Field 10X/20 mm	PLAN 4x, 10xPh, 40xPh, 100xPh (oil)	Quintuple nosepiece, reversed	Double layer mechanical sliding stage, 160x140mm, moving range 78x54mm	Coaxial coarse and fine focusing with limit stop	Phase condenser (10x/20x, 40x, 100x) with darkfield (dry) and brightfield	X-LED ³ , with manual brightness control	External power supply: Input 100-240Vac 50-60Hz. Output 6Vdc 1A
B-382PHi-ALC	Binocular 360°rotating 30° inclined	Wide Field 10X/20 mm	IOS PLAN 10xPh, 20xPh, 40xPh, 100xPh (oil)	Quintuple nosepiece, reversed	Double layer mechanical sliding stage, 216x150mm, moving range 78x54mm, Belt-drive in X direction	Coaxial coarse and fine focusing with limit stop	Phase condenser (10x/20x, 40x, 100x) with darkfield (dry) and brightfield	X-LED ³ , with Automatic Light Control	External power supply: Input 100-240Vac 50-60Hz. Output 6Vdc 1A
B-383PHi	Trinocular 360°rotating 30° inclined	Wide Field 10X/20 mm	IOS PLAN 10xPh, 20xPh, 40xPh, 100xPh (oil)	Quintuple nosepiece, reversed	Double layer mechanical sliding stage, 216x150mm, moving range 78x54mm, Belt-drive in X direction	Coaxial coarse and fine focusing with limit stop	Phase condenser (10x/20x, 40x, 100x) with darkfield (dry) and brightfield	X-LED ³ , with manual brightness control	External power supply: Input 100-240Vac 50-60Hz. Output 6Vdc 1A
B-383DK	Trinocular 360°rotating 30° inclined	Wide Field 10X/20 mm	E-PLAN 4x, 10x, 40x, Planachromatic 100x (oil, with iris diaphragm)	Quintuple nosepiece, reversed	Double layer mechanical sliding stage, 160x140mm, moving range 78x54mm	Coaxial coarse and fine focusing with limit stop	N.A.1.25 Abbe and extra N.A.1.36 darkfield type with built-in X-LED ³	X-LED ³ , with manual brightness control	External power supply: Input 100-240Vac 50-60Hz. Output 6Vdc 1A

B-380 Series - Accessories

B-380

M-160	Eyepiece WF10x/20mm.
M-161	Eyepiece WF15x.
M-162	Eyepiece WF20x.
M-163	Micrometer eyepiece WF10x/20mm.
M-005	Micrometric slide 26x76 mm, range 1 mm, div. 0,01 mm.
M-164	Objective 4x/0,10 E-PLAN.
M-165	Objective 10x/0,25 E-PLAN.
M-166	Objective 20x/0,40 E-PLAN.
M-167	Objective 40x/0,65 E-PLAN.
M-168	Objective 60x/0,80 E-PLAN.
M-169	Objective 100x/1,25 E-PLAN (Oil).
M-144	Objective 4x/0,10 IOS E-PLAN.
M-145	Objective 10x/0,25 IOS E-PLAN.
M-146	Objective 20x/0,40 IOS E-PLAN.
M-147	Objective 40x/0,65 IOS E-PLAN.
M-149	Objective 60x/0,80 IOS E-PLAN.
M-148	Objective 100x/1,25 IOS E-PLAN (Oil).
M-059	Objective with iris diaphragm for darkfield PL100x (oil).
M-170	Objective 10x/0.25 PLAN for phase contrast.
M-172	Objective 40x/0.65 PLAN for phase contrast.
M-182	Objective 100x/1.25 (oil) PLAN for phase contrast.
M-183	Objective 10x/0.25 IOS PLAN for phase contrast.
M-176	Objective 20x/0.40 IOS PLAN for phase contrast.
M-177	Objective 40x/0.65 IOS PLAN for phase contrast.
M-178	Objective 100x/1.25 (oil) IOS PLAN for phase contrast.
M-179	Complete Phase Contrast Set with PLAN obj. 10x, 40x, 100x , with Darkfield position.
M-181	Complete Phase Contrast Set with IOS PLAN obj. 10x, 20x, 40x, 100x , with Darkfield position.
M-174.1	Polarizing set, filters only (for B-380 series).
M-175	Rotating table for polarizing set.
M-185	Darkfield condenser for dry objectives.
M-173	Photo adapter for APS-C and Full Frame Reflex cameras.
M-114	CCD camera adapter 0,45x.
M-116	CCD camera adapter 0,50x.
M-666.380	Heating stage, with digital temperature controller.

M-069 - Solar battery pack

Included battery: rechargeable
Lithium-Poly. Capacity: 2600 mAh.
Output voltage: 5,5Vdc.
Dimensions: 120x73x10 mm.
Autonomy: over 6 hours at medium intensity (X-LED³).
Charging modes: with solar panel (12h), with external
USB power supply (not included) or from PC USB port (5h).



15104 - Lens cleaner, 50ml

It cleans glass quickly and effectively,
without leaving residue or odor.
Ideal for precision lens or prism cleaning.



How to connect the cameras to our microscopes.

Please refer to the Adapter reference list on Digital section.

Headquarters and Manufacturing Facilities

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