

B-380 Series - Brightfield Models

B-382PLi-ALC



Brightfield binocular microscope with IOS N-PLAN (Infinity Corrected) objectives, rackless stage and combining the exclusive **X-LED³** with **ALC** (Automatic Light Control) for great-looking, rich and high-quality view.

Observation mode: Brightfield.

Head: Binocular, 30° inclined, 360° rotating (when ALC cable is unplugged).

Interpupillary distance: Adjustable between 48 and 75 mm.

Dioptric adjustment: On the left eyepiece tube.

Eyepieces: WF10x/20 mm, high eye-point and secured by screw.

Nosepiece: Quintuple revolving nosepiece, rotation on ball bearings.

Objectives:

IOS N-PLAN 4x/0.10	IOS N-PLAN 10x/0.25
IOS N-PLAN 40x/0.65	IOS N-PLAN 100x/1.25 (Oil/Water)

All with anti-fungus treatment.

Specimen stage: Double layer rackless mechanical stage, 233x147 mm, 78x54 mm X-Y range.

Focusing: Coaxial coarse (adjustable tension) and fine focusing mechanism with limit stop to prevent the contact between objective and specimen.

Condenser: Abbe N.A. 1.25, with objective-coded iris diaphragm, focusable and centerable.

Illumination (Fixed Koehler type): X-LED³ with white 3.6 W LED (6,300K) and brightness control. **ALC** system. Multi-plug 100-240Vac/6Vdc external power supply.

B-383PLi



Brightfield trinocular microscope with IOS N-PLAN (Infinity Corrected) objectives, rackless stage and the exclusive **X-LED³** for great-looking, rich and high-quality view.

Observation mode: Brightfield.

Head: Trinocular (fixed 50/50), 30° inclined, 360° rotating.

Interpupillary distance: Adjustable between 48 and 75 mm.

Dioptric adjustment: On the left eyepiece tube.

Eyepieces: WF10x/20 mm, high eye-point and secured by screw.

Nosepiece: Quintuple revolving nosepiece, rotation on ball bearings.

Objectives:

IOS N-PLAN 4x/0.10	IOS N-PLAN 10x/0.25
IOS N-PLAN 40x/0.65	IOS N-PLAN 100x/1.25 (Oil/Water)

All with anti-fungus treatment.

Specimen stage: Double layer rackless mechanical stage, 233x147 mm, 78x54 mm X-Y range.

Focusing: Coaxial coarse (adjustable tension) and fine focusing mechanism with limit stop to prevent the contact between objective and specimen.

Condenser: Abbe N.A. 1.25, with objective-coded iris diaphragm, focusable and centerable.

Illumination (Fixed Koehler type): X-LED³ with white 3.6 W LED (6,300K) with brightness control. Multi-plug 100-240Vac/6Vdc external power supply.

B-380 Series - Comparison chart

Model	Head	Eyepieces	Nosepiece	Objectives	Stage	Focusing	Condenser	illumination
B-382PL-ALC	Binocular, 30° inclined	WF 10x/20	Quintuple, reversed	N-PLAN 4x, 10x, 40x, 100x (oil/water)	Rackless double layer, 150x139mm, moving range 75x33mm	Coaxial coarse and fine, limit stop, adjustable tension	Abbe N.A. 1.25, iris diaphragm, focusable and centrable	3.6 W X-LED ³ , brightness control, ALC control. Fixed Koehler
B-383PL	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	N-PLAN 4x, 10x, 40x, 100x (oil/water)	Rackless double layer, 150x139mm, moving range 75x33mm	Coaxial coarse and fine, limit stop, adjustable tension	Abbe N.A. 1.25, iris diaphragm, focusable and centrable	3.6 W X-LED ³ , brightness control. Fixed Koehler
B-382PLi-ALC	Binocular, 30° inclined	WF 10x/20	Quintuple, reversed	IOS N-PLAN 4x, 10x, 40x, 100x (oil/water)	Rackless double layer, 233x147mm, moving range 78x54 mm	Coaxial coarse and fine, limit stop, adjustable tension	Abbe N.A. 1.25, iris diaphragm, focusable and centrable	3.6 W X-LED ³ , brightness control, ALC control. Fixed Koehler
B-383PLi	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	IOS N-PLAN 4x, 10x, 40x, 100x (oil/water)	Rackless double layer, 233x147mm, moving range 78x54 mm	Coaxial coarse and fine, limit stop, adjustable tension	Abbe N.A. 1.25, iris diaphragm, focusable and centrable	3.6 W X-LED ³ , brightness control. Fixed Koehler
B-382PH-ALC	Binocular, 30° inclined	WF 10x/20	Quintuple, reversed	W-PLAN 4x, 10xPH, 40xPH, 100xPH (oil)	Rackless double layer, 150x139mm, moving range 75x33mm	Coaxial coarse and fine, limit stop, adjustable tension	Phase condenser (10x/20x, 40x, 100x) with darkfield (dry) and brightfield	3.6 W X-LED ³ , brightness control, ALC control. Fixed Koehler
B-383PH	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	W-PLAN 4x, 10xPH, 40xPH, 100xPH (oil)	Rackless double layer, 150x139mm, moving range 75x33mm	Coaxial coarse and fine, limit stop, adjustable tension		3.6 W X-LED ³ , brightness control. Fixed Koehler
B-382PHi-ALC	Binocular, 30° inclined	WF 10x/20	Quintuple, reversed	IOS W-PLAN 10xPH, 20xPH, 40xPH, 100xPH (oil)	Rackless double layer, 233x147mm, moving range 78x54 mm	Coaxial coarse and fine, limit stop, adjustable tension	Phase condenser (10x/20x, 40x, 100x) with darkfield (dry) and brightfield	3.6 W X-LED ³ , brightness control, ALC control. Fixed Koehler
B-383PHi	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	IOS W-PLAN 10xPH, 20xPH, 40xPH, 100xPH (oil)	Rackless double layer, 233x147mm, moving range 78x54 mm	Coaxial coarse and fine, limit stop, adjustable tension	Phase condenser (10x/20x, 40x, 100x) with darkfield (dry) and brightfield	3.6 W X-LED ³ , brightness control. Fixed Koehler
B-383DK	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	N-PLAN 4x, 10x, 40x, W-PLAN 100x (oil, with iris diaphragm)	Rackless double layer, 150x139mm, moving range 75x33mm	Coaxial coarse and fine, limit stop, adjustable tension	Abbe N.A. 1.25, iris diaphragm, focusable and centrable. Additional darkfield condenser, N.A. 1.36, built-in X-LED ³	3.6 W X-LED ³ , brightness control. Fixed Koehler
B-383FL	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	IOS N-PLAN 4x, 10x, 20x, 40x, 100x (oil/water)	Rackless double layer, 233x147mm, moving range 78x54 mm	Coaxial coarse and fine, limit stop, adjustable tension	Abbe N.A. 1.25, iris diaphragm, focusable and centrable	Transmitted: 3.6 W X-LED ³ , brightness control. Fixed Koehler Incident: HBO 100 W high-pressure mercury bulb
B-383LD1	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	IOS N-PLAN 4x, 10x, 20x, 40x, 100x (oil/water)	Rackless double layer, 233x147mm, moving range 78x54 mm	Coaxial coarse and fine, limit stop, adjustable tension	Abbe N.A. 1.25, iris diaphragm, focusable and centrable	Transmitted: 3.6 W X-LED ³ , brightness control. Fixed Koehler Incident: High-power blue LED
B-383LD2	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	IOS N-PLAN 4x, 10x, 20x, 40x, 100x (oil/water)	Rackless double layer, 233x147mm, moving range 78x54 mm	Coaxial coarse and fine, limit stop, adjustable tension	Abbe N.A. 1.25, iris diaphragm, focusable and centrable	Transmitted: 3.6 W X-LED ³ , brightness control. Fixed Koehler Incident: High-power wide spectrum LED
B-383POL	Trinocular, 30° inclined, 360° rotating	WF 10x/20 (one with crosshair reticle)	Quadruple, reversed	Strain-free IOS N-PLAN POL 4x, 10x, 40x, 60x	Round, 360° rotating, 160mm diameter, with sample clips and stop knob	Coaxial coarse and fine, limit stop, adjustable tension	Abbe N.A. 1.25, iris diaphragm, focusable and centrable. With rotating polarizer	3.6 W X-LED ³ , brightness control. Fixed Koehler
B-383MET	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	IOS W-PLAN MET 4x, 10x, 20x, 50x	Rackless double layer, 233x147mm, moving range 78x54 mm	Coaxial coarse and fine, limit stop, adjustable tension	Abbe N.A. 1.25, iris diaphragm, focusable and centrable	Transmitted and incident: 3.6 W X-LED ³ , brightness control. Fixed Koehler

B-380 Series - Accessories

ACCESSORIES FOR B-380

- M-001 Huygens 5x eyepiece.
- M-160 EW10x/20 eyepiece, high eyepoint, with rubber cup.
- M-161 EW15x/16 eyepiece, with rubber cup.
- M-162 WF20x/12 eyepiece.
- M-163 EW10x/20 eyepiece, high eyepoint, with micrometric scale (10mm/100um) & rubber cup.
- M-008.1 EWF10x/20 eyepiece, high eyepoint, with pointer & rubber cup.
- M-164 N-PLAN objective 4x/0.10 (only for B-382PL-ALC, B-383PL, B-383DK).
- M-165 N-PLAN objective 10x/0.25 (only for B-382PL-ALC, B-383PL, B-383DK).
- M-166 N-PLAN objective 20x/0.40 (only for B-382PL-ALC, B-383PL, B-383DK).
- M-167 N-PLAN objective 40x/0.65 (only for B-382PL-ALC, B-383PL, B-383DK).
- M-168 N-PLAN objective 60x/0.80 (only for B-382PL-ALC, B-383PL, B-383DK).
- M-169 N-PLAN objective 100x/1.25 (OIL/WATER immersion) (only for B-382PL-ALC, B-383PL).
- M-144 IOS N-PLAN objective 4x/0.10 (only for B-382PLi-ALC, B-383PLi, B-383LD1, B-383LD2, B-383FL).
- M-145 IOS N-PLAN objective 10x/0.25 (only for B-382PLi-ALC, B-383PLi, B-383LD1, B-383LD2, B-383FL).
- M-146 IOS N-PLAN objective 20x/0.40 (only for B-382PLi-ALC, B-383PLi, B-383LD1, B-383LD2, B-383FL).
- M-147 IOS N-PLAN objective 40x/0.65 (only for B-382PLi-ALC, B-383PLi, B-383LD1, B-383LD2, B-383FL).
- M-149 IOS N-PLAN objective 60x/0.80 (only for B-382PLi-ALC, B-383PLi, B-383LD1, B-383LD2, B-383FL).
- M-148 IOS N-PLAN objective 100x/1.25 (OIL/WATER immersion) (only for B-382PLi-ALC, B-383PLi, B-383LD1, B-383LD2, B-383FL).
- M-059 W-PLAN objective 100x/1.25OI (oil iris) (only for B-383DK).
- M-170 W-PLAN PH objective 10x/0.25 (only for B-383PH, B-382PH-ALC).
- M-171 W-PLAN PH objective 20x/0.40 (only for B-383PH, B-382PH-ALC).
- M-172 W-PLAN PH objective 40x/0.65 (only for B-383PH, B-382PH-ALC).
- M-182 W-PLAN PH objective 100x/1.25 (Oil) (only for B-383PH, B-382PH-ALC).
- M-1120.N IOS W-PLAN PH objective 10x/0.25 (only for B-383PHi, B-382PHi-ALC).
- M-1121.N IOS W-PLAN PH objective 20x/0.40 (only for B-383PHi, B-382PHi-ALC).
- M-1122.N IOS W-PLAN PH objective 40x/0.65 (only for B-383PHi, B-382PHi-ALC).
- M-1123.N IOS W-PLAN PH objective 100x/1.25 (Oil) (only for B-383PHi, B-382PHi-ALC).
- M-144P IOS N-PLAN POL objective 4x/0.10 (only for B-383POL).
- M-145P IOS N-PLAN POL objective 10x/0.25 (only for B-383POL).
- M-146P IOS N-PLAN POL objective 20x/0.40 (only for B-383POL).
- M-147P IOS N-PLAN POL objective 40x/0.65 (only for B-383POL).
- M-149P IOS N-PLAN POL objective 60x/0.80 (only for B-383POL).
- M-148P IOS N-PLAN POL objective 100x/1.25 (OIL/WATER immersion) (only for B-383POL).
- M-335 IOS W-PLAN MET objective 50x/0.75 (only for B-383LD1, B-383LD2, B-383FL, B-383MET).
- M-337 IOS W-PLAN MET objective 4x/0.10 (only for B-383MET).
- M-338 IOS W-PLAN MET objective 10x/0.25 (only for B-383MET).
- M-339 IOS W-PLAN MET objective 20x/0.40 (only for B-383MET).
- M-179 Complete PH Set – W-PLAN PH obj. 10x, 40x, 100x - Condenser for BF/DF/PH (only for B-383PL, B-382PL-ALC, B-383DK).
- M-181 Complete PH Set – IOS W-PLAN PH obj. 10x, 20x, 40x, 100x – Condenser for BF/DF/PH (only for B-382PLi-ALC, B-383PLi, B-383LD1, B-383LD2, B-383FL, B-383MET).
- M-151 HBO100W high-pressure mercury bulb for fluorescence (for B-383FL only).
- M-151.1 HBO 100W high-pressure mercury bulb for fluorescence (OSRAM High-Grade)
- M-635 Heating stage, with digital temperature controller (only on newly purchased microscopes, for models with 233x147mm rackless stage).
- M-174.1 Polarizing set, filters only (for B-380 series).
- M-175 Rotating table for polarising set (For all models with 150x139mm reckless stage).
- M-175.1 Rotating table for polarising set (For all models with 233x147mm reckless stage).
- M-185 DF condenser for dry objectives.
- M-156 Field diaphragm for Koehler illumination (only on newly purchased microscopes) (for all, except B-383POL).
- M-975.1 Ring with blue filter, 45 mm diameter.
- M-977.1 Ring with green filter, 45 mm diameter.
- M-979.1 Ring with yellow filter, 45 mm diameter.
- M-989.1 Ring with frosted glass filter, 45 mm diameter.
- M-173 Photo adapter for APS-C and Full Frame Reflex cameras.
- M-114 0.5x C-Mount projection lens.
- M-115 0.35x C-Mount projection lens.
- M-118 0.75x C-Mount projection lens.
- M-620 0.35x focusable C-Mount adapter (biological microscopes).
- M-620.1 0.5x focusable C-Mount adapter (biological microscopes).
- M-620.2 0.65x focusable C-Mount adapter (biological microscopes).
- M-620.3 1x focusable C-Mount adapter (biological microscopes).
- M-699 Universal adapter for M-173.
- M-069 Solar charger.
- M-005 Micrometric slide, 26x76mm, with 2 X scales (1mm/100div. for biological / 10mm/100div. for stereo).
- DC-002 Plastic dust cover, medium - 490(l)x490(h) mm
- DC-003 TNT dust cover, medium – 600(l)x550(h) mm.
- 15008 OPTIKA immersion oil 10ml.
- 15104 Cleaning kit.
- VP-380 IQ/OQ/PQ Validation Protocols.

15104 - Cleaning kit

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



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).



How to connect the cameras to our microscopes.
Please refer to the Adapter reference list on Digital section.