



B-380 Series

Laboratory Upright Microscopes

Just what you need. Right when you need it

ADVANCED UPRIGHT MICROSCOPES FOR UNIVERSITY, LABS & INDUSTRY

- » Perfect for all routine applications
- » Valuable solutions for routine laboratory needs
- » High precision resource for industrial & materials applications

ONE SINGLE SERIES, MULTIPLE FLEXIBLE SOLUTIONS

- » Brightfield, phase contrast, polarizing and metallurgical
- » Exclusive immersion darkfield system for fresh blood analysis
- » Traditional HBO lamp or ultra-convenient LED fluorescence



Improving The Most Important Aspects of Microscopy Experience

HIGH QUALITY, FLAT IMAGES CAPTURED WITH OUTSTANDING OPTICS

- » Binocular and trinocular heads with 20 mm field number
- » True infinity optical system available (IOS)
- » Fully centerable condenser for precise light control

LABORATORY GRADE OPTICS

- » N-PLAN objectives, high numerical apertures
- » Planachromatic optics with more than 90% flat field
- » Significant optical correction, low field curvature and distortion



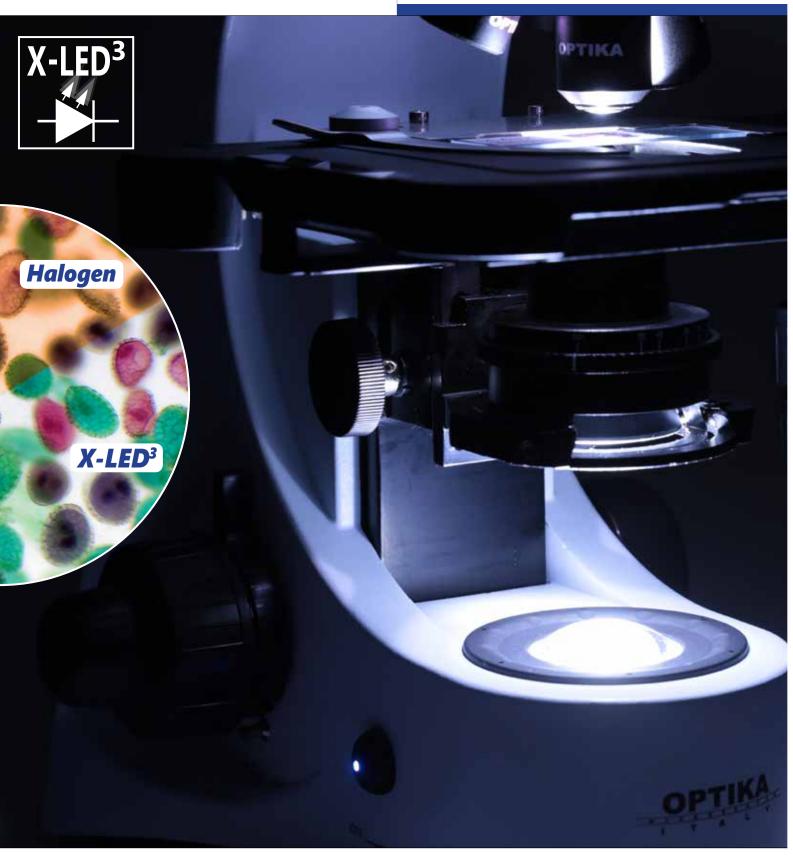
X-LED³ - Two Times Brighter Than Any Other

STATE-OF-THE-ART ILLUMINATION SYSTEM

- » Unmatched colour fidelity and brightness of your specimen
- » Special technology, able to double the light intensity
- » Constant pure-white colour temperature (6,300 K)

CUT ELECTRICITY BILLS BY 90%

- » Money & energy saving
- » Low power consumption, only 3.6 W
- » LED long lifetime (65,000 hours = 25 years at 8 hours/day usage)



Simplicity & Technology, Together Like Never Before

3-STEPS EASY SETTING

- » Choose the light intensity you prefer
- » Press the button and set the light
- » Change the objectives or close the diaphgram aperture: the microscope will keep the same light intensity!

EXCLUSIVE AUTOMATIC LIGHT CONTROL - ALC

- » Auto brightness adjustment when changing objective
- » Auto brightness adjustment when regulating diaphragm aperture
- » Auto brightness adjustment when processing another sample





STEP 3

Forget about the illumination!

The microscope will automatically adjust the brightness for you, in case of:

- Another objective is used
- The diaphragm aperture is changed
- Another specimen with different opacity is processed







A New Frontier in Ergonomic Product Design

ELEGANT DESIGN WITHSTANDING EVERYDAY USE

- » Ergonomic positioning of the main controls
- » Long lasting mechanical parts, rackless moving stage
- » Maintenance-free illumination system

EASY TO CARRY, LIGHT, STEADY

- » Improving productivity, reducing fatigue
- » Increases job accuracy and quality
- » Easily portable, with comfortable handgrip



Icons



Binocular



Trinocular



Inclined head



Field number



Eyepiece with pointer



Rotating head 360°



Infinity-corrected optics



Max. magnification



Anti-fungus treatment



Incident light



Transmitted light



Polarized light

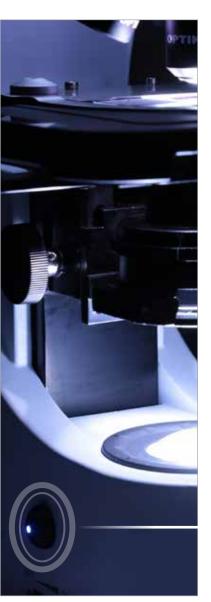


X-LED illuminator



Automatic light control

B-380 Series



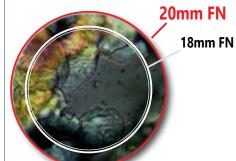
Purposely Designed For Intense Use, Effortless

Full of features that help being more comfortable especially in case of long-term use. All the main controls are located close to each other to enable minimal movements and reinforce the advantages that the ergonomy brings to this series.

X-LED³ Exclusive Lighting Source

Achieve bright images, improved colour fidelity, pure white colour temperature, incredibly low energy consumptions and longer lifespan with the unique X-LED³ technology, able to double the light intensity for incomparable performance.

Relevant money and energy saving thanks to the incredibly low energy consumptions which allows you to cut the electricity bills by 90%!



n FN Large Specimen View (20 mm Field Number) Enjoy a 20 mm field of view ensures you to gain

peripheral view and comfort when observing the specimen.

This means more efficient inspections and allows a natural and easy view, particularly needed in a laboratory environment.

ALC - Automatic Light Control, Only Available At OPTIKA

Incomparable Comfort With The Exclusive Automatic Light Control (ALC)

Automatic light intensity regulation. Seamless operation with instant brightness adjustment, automatically performed by the microscope for you. No matter if the aperture of the diaphragm changes, if another objective is used, and if the opacity of the sample is different...the microscope will set the light for you according to your preferences.

On B-382PL-ALC, B-382PLi-ALC, B-382PH-ALC & B-382PHi-ALC.

Condenser Suitable For Darkfield

OPTIKA B-380 phase contrast microscopes are equipped with a 5-position dedicated rotating condenser for brightfield (standard use), phase contrast (10x/20x, 40x and 100x phase diaphragms), and a darkfield position for dry objectives.



Laboratory Upright Microscopes

Safe And Convenient Operations

The rackless stage has been designed with a belt-driven mechanism that allows a smooth movement without any protruding part. This design gives you a more compact solution and lowers any risk of injury after accidentally hitting the rack with your hands.



Exclusive X-LED³ Darkfield Condenser

The special condenser with integrated, exclusive X-LED³ illuminator replaces any other external and expensive lighting source required for these applications and is ideal for great-looking, rich and high-quality specimen view.



In fluorescence we can offer several options.

According to your application and to the fluorochromes you are using, we can identify the best solution. Apart from that, generally speaking, we can identify the benefits of the HBO and LED fluorescence as following:

Traditional, HBO Fluorescence

- » The most used and diffused method, worldwide
- » Ideal for reasearch purposes



Innovative, LED Fluorescence

- » Recommended for routine applications
- » Cost-effective, money saving technology
 - » Eliminate warm-up/cool-down times
 - » Forget lamp replacement & centering





B-380 Series

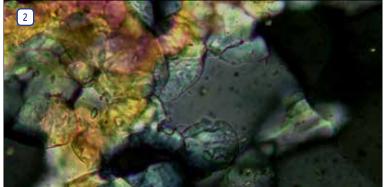
Applications

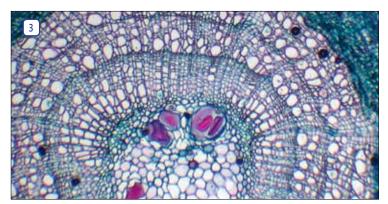
Some application examples showing the extreme versatility of B-380 Series in its several available configurations. Applications in education, biology, botany and simple material analysis. This series represents the best entry-level solution for the routine laboratory.

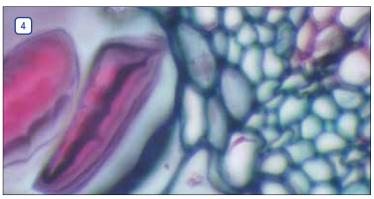
Legend

- 1. Planachromatic Phase Contrast objectives.
- 2. B-383POL tuff observed under polarized light.
- 3. Tilia three year stem at 4x magnification, B-383PL.
- 4. Tilia three year stem at 40x magnification, B-383PL.
- 5. B-380 head with built-in Automatic Light Control system.
- 6. Head with Siedentopf adjustment system.
- 7. B-383POL attachment with Bertrand lens.
- 8. Frog Blood Smear, with B-382PLi-ALC and 100x objective.
- **9.** Frog Blood Smear, with B-382PLi-ALC and 100x objective with water.
- **10.** B-383MET side view of X-LED incident light attachment.
- **11.** Coin at 4x magnification, B-383MET.
- 12. Coin at 50x magnification, B-383MET.
- 13. Innovative design of B-380 series.









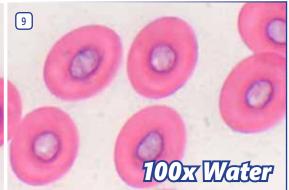


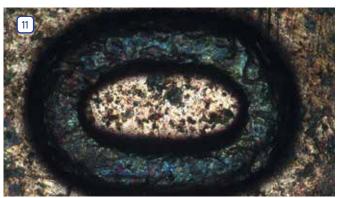


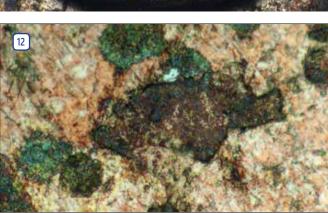






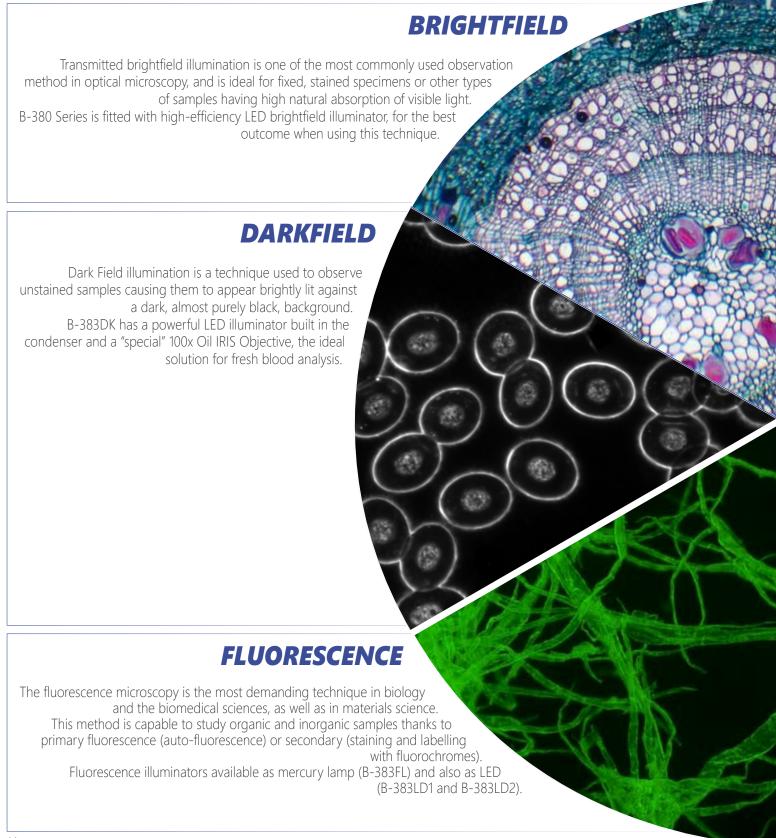




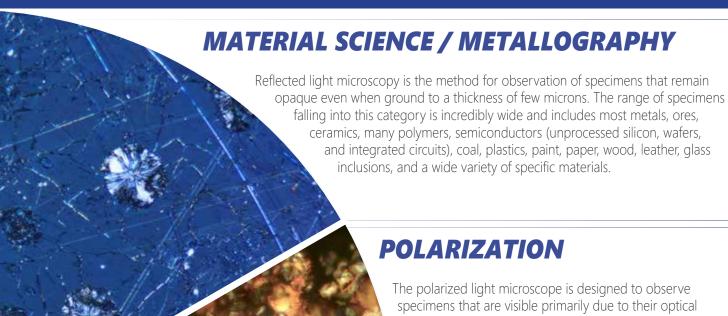




B-380 Series



Observation Methods



anisotropic or birefringent features.

Polarized light microscopy is perhaps best known for its applications in the geological sciences, which focusses primarily on the study of minerals in rock thin sections. However, a wide variety of other materials can be examined in polarized light, including both natural and industrial minerals, concrete, ceramics, mineral fibers, polymers, starch, wood, urea. The technique can be used both qualitatively and quantitatively with success, and is an outstanding tool for the materials sciences, geology, chemistry, biology, metallurgy, and even diagnostic (gout analysis).

PHASE CONTRAST

Phase-contrast microscopy is a particular technique applied in transparent, non-stainable, samples like culture of living cells, microorganisms, lithographic patterns, latex dispersions, fibers, asbestous and subcellular particles.

It reveals many cellular structures that are not visible with a simple brightfield microscope.

B-380 Series - Overview

This series incorporates all the experience gathered by OPTIKA Microscopes in the field of light microscopy, adapted specifically for routine laboratory brightfield applications. These microscopes are suitable for routine microscopy and have an ergonomic design for comfortable long-term use. All main controls are located close to each other, which enable operation with minimal movements, reducing the fatigue of the user. B-380 Series incorporates all the experience gathered by OPTIKA Microscopes in the field of light microscopy, adapted specifically for routine laboratory applications, industrial and material analysis.



Observation mode:

Brightfield, polarizing, fluorescence, phase contrast, darkfield.

Heads:

Binocular and trinocular, 30° inclined.

360° rotating heads on all the models, except for ALC ones.

Interpupillary distance:

Adjustable between 48 and 75 mm.

Dioptric adjustment:

On the left eyepiece tube.

Eyepieces:

WF10x/20 mm.

Nosepiece:

Quintuple revolving nosepiece, rotation on ball bearings. B-383POL quadruple revolving nosepiece, with centering mechanism.

Objectives:

N-PLAN: B-382PL-ALC, B-383PL and B-383DK.

IOS N-PLAN: B-382PLi-ALC, B-382PLi, B-383LD1, B-383LD2, B-383FL.

W-PLAN PH: B-382PH-ALC, B-383PH. **IOS W-PLAN PH:** B-382PHi-ALC, B-383PHi.

IOS W-PLAN MET: B-383MET. **IOS N-PLAN POL:** B-383POL. with an anti-fungus treatment.

Specimen stage:

B-382PL-ALC, B-383PL, B-382PH-ALC, B-383PH, B-383DK:

Double layer mechanical stage, 160x140 mm, 78x54 mm X-Y rackless movement.

B-382PLi-ALC, B-383PLi, B-382PHi-ALC, B-383PHi, B-383LD1, B-383LD2, B-383MET,

B-383FL: Double layer mechanical stage, 233x147 mm, 78x54 mm X-Y rackless movement.

B-383POL: 160 mm diameter, 360° rotating.

Focusing:

Coaxial coarse and fine focusing mechanism with limit stop to prevent the contact between objective and specimen. Adjustable tension of coarse focusing knob.

Condenser:

Brightfield models:

Abbe N.A. 1.25, with iris diaphragm, focusable and centerable.

Phase contrast models:

Phase condenser (10x/20x, 40x, 100x) with darkfield (dry) and brightfield.

B-383DK

Abbe N.A. 1.25, with iris diaphragm, focusable and centerable.

Darkfield N.A. 1.36 with built-in X-LED³.

B-383POL:

Abbe N.A. 1.25, with iris diaphragm, focusable and centerable.

With rotating polarizer filter.

Illumination:

All models: X-LED3.

ALC models: X-LED³ with automatic light control.

B-380 Series - Range

2 00

30°

1000x

B-382PL-ALC



Brightfield binocular microscope with **N-PLAN objectives**, moving stage and combining the **exclusive X-LED³** with **ALC** for great-looking, rich and high-quality specimen view.

B-383PL



Brightfield trinocular microscope with **N-PLAN objectives**, moving stage and the **exclusive X-LED**³ for incredibly bright illumination.

B-382PLi-ALC



Brightfield binocular microscope with IOS N-PLAN (infinity corrected) objectives, rackless moving stage and combining the exclusive X-LED³ with ALC for great-looking, rich and high-quality specimen view.

B-383PLi

डु **०**०

30°

360°

 ∞

1000x

X-LED³

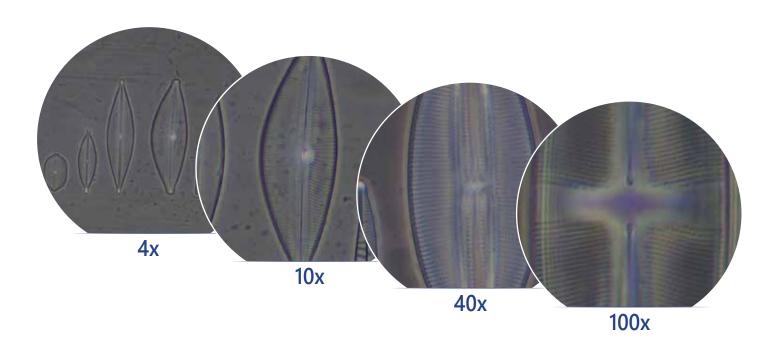


Brightfield trinocular microscope with IOS N-PLAN (infinity corrected) objectives, rackless moving stage and the exclusive X-LED³ for incredibly bright illumination.

B-380 Series - Range

Phase contrast microscopes are widely used for examining such specimens as biological tissues. It is a type of light microscopy that enhances contrasts of transparent and colorless objects by influencing the optical path of light.

The microscope is equipped with a 5-position dedicated rotating condenser for brightfield (standard use), 10x/20x, 40x and 100x phase diaphragms, and a darkfield position for dry objectives.



<u>3</u> ○○ 130°

360°

1000x

B-382PH-ALC



B-383PH



Phase contrast and brightfield binocular microscope with W-PLAN PH objectives, moving stage and combining the exclusive X-LED³ with ALC for great-looking, rich and high-quality specimen view.

Phase contrast and brightfield trinocular microscope with W-PLAN PH objectives, moving stage and the exclusive X-LED³ for incredibly bright illumination.

1000x

B-380 Series - Range

B-382PHi-ALC

B-383PHi

















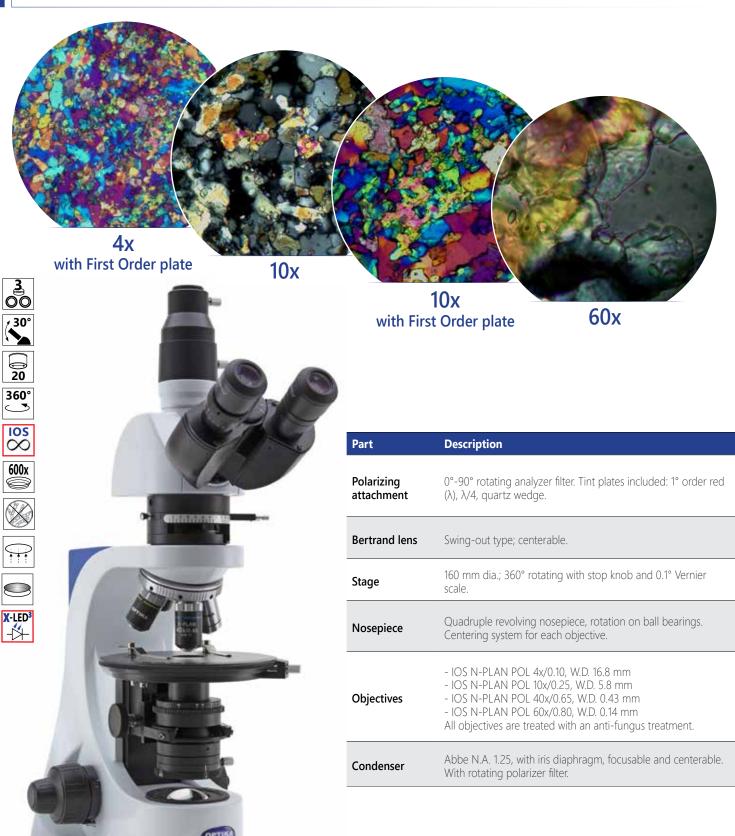
Phase contrast and brightfield binocular microscope with IOS W-PLAN PH objectives, rackless moving stage and combining the exclusive X-LED3 with ALC for great-looking, rich and highquality specimen view.

Phase contrast and brightfield trinocular microscope with IOS W-PLAN PH objectives, rackless moving stage and the exclusive X-LED³ for incredibly bright illumination.



B-383POL - Polarized microscope

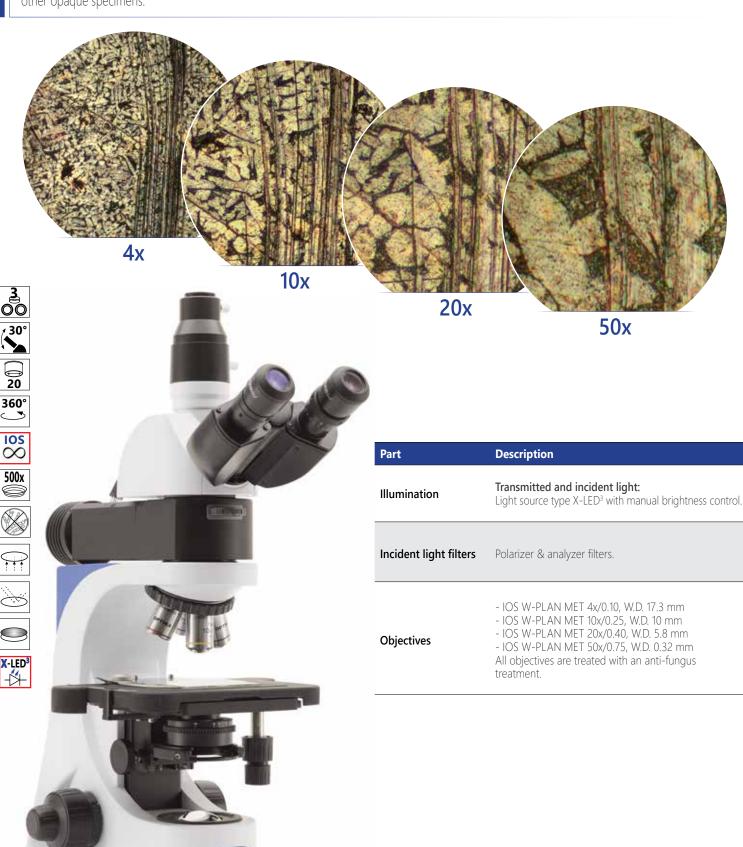
Biological microscope for **brightfield** and **polarizing light** observations with strain-free **IOS N-PLAN POL objectives**. A complete system for your analysis, complete of polarizer and analyzer filters, Bertrand lens for conoscopic observation, compensator plates and high-precision rotatable stages. It comes with the exclusive X-LED³ illumination system to deliver bright and clear images, along with all the accessories to perform accurate polarization analysis in biology and materials science.



B-383MET - Metallographic microscope

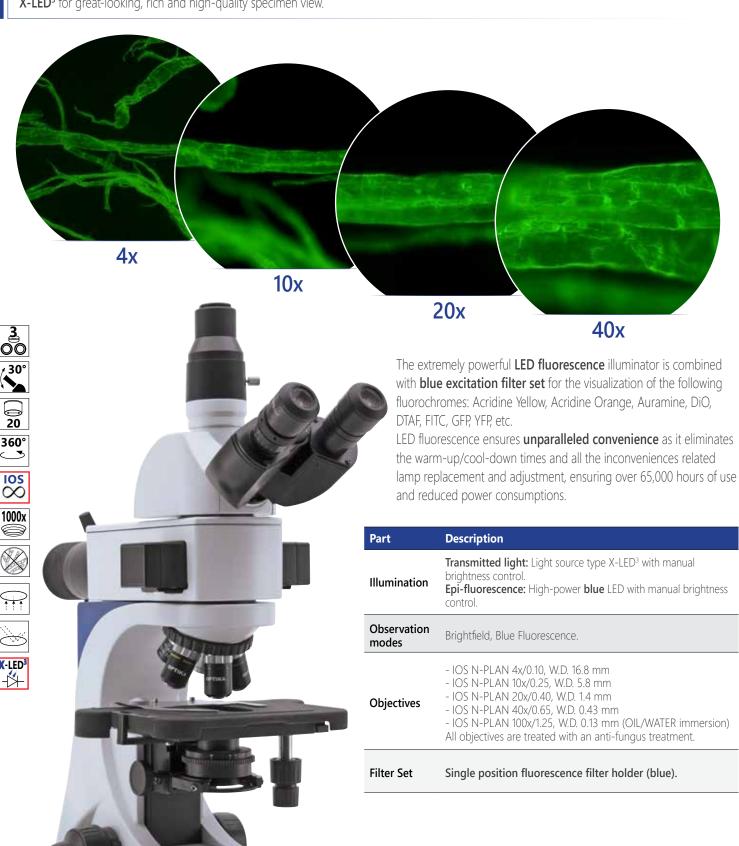
Brightfield biological microscope with IOS W-PLAN MET objectives and metallurgical attachment combining the exclusive X-LED³ lighting source both for incident and transmitted illumination.

The NCG (no cover glass) objectives are especially designed for microscopy use **without a cover slip** ideal for metallographic samples and other opaque specimens.



B-383LD1 - LED Fluorescence microscope

Entry-level laboratory biological microscope for **brightfield** and **fluorescence** observations with **IOS N-PLAN objectives** and the **exclusive X-LED**³ for great-looking, rich and high-quality specimen view.

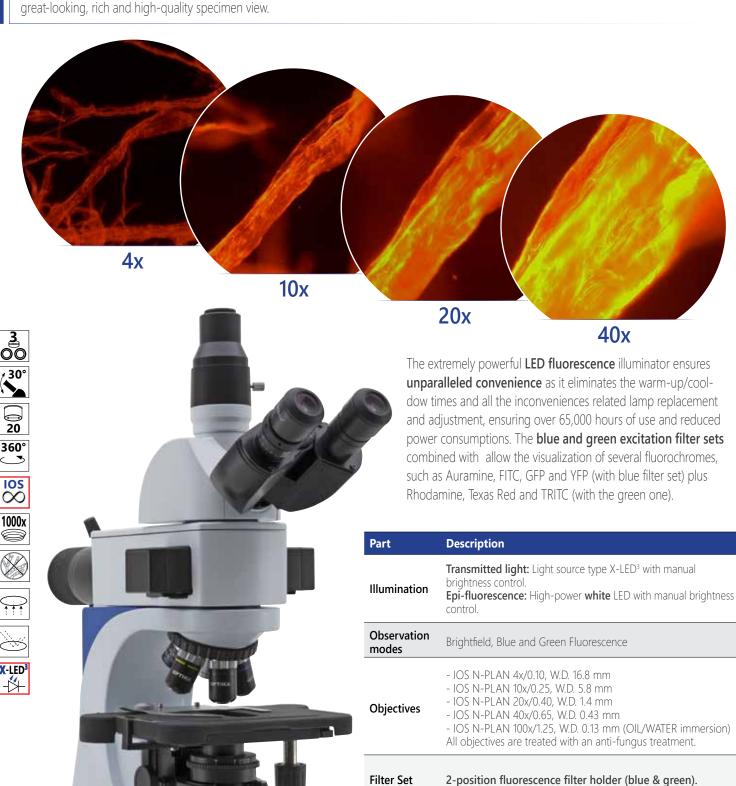


Standard filterset

Name	Excitation filter (nm)	Dichroic mirror cut-off (nm)	Emission filter (nm)	
B (Blue)	460 – 490	505	515LP	

B-383LD2 - LED Fluorescence microscope

Laboratory biological microscope for **brightfield** and **fluorescence** observations with **IOS N-PLAN objectives** and the **exclusive X-LED**³ for great-looking, rich and high-quality specimen view.



Standard filterset

Name	Excitation filter (nm)	Dichroic mirror cut-off (nm)	Emission filter (nm)
B (Blue)	460 – 490	505	515LP
G (Green)	510 – 550	570	590LP

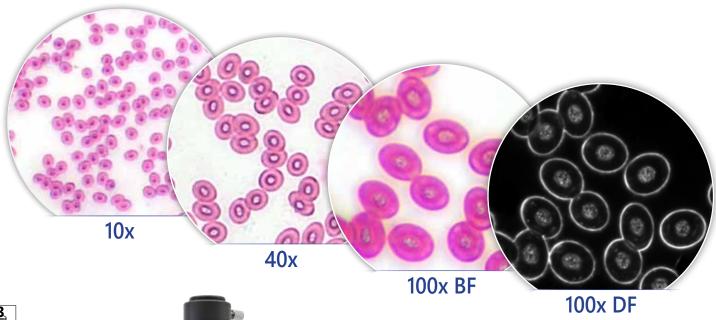
B-383FL - Fluorescence microscope

Laboratory biological microscope for **brightfield** and **fluorescence** observations with **IOS N-PLAN objectives** and the **exclusive X-LED**³ for great-looking, rich and high-quality specimen view.



B-383DK - Darkfield microscope

Laboratory biological microscope for **brightfield** and **darkfield** observations with **N-PLAN objectives** (and W-PLAN 100x with iris) for biology and especially darkfield fresh blood analysis and the **exclusive X-LED³ illumination system**.







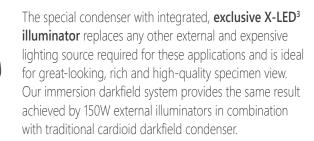












Objectives	- N-PLAN 4x/0.10, W.D. 15.2 mm - N-PLAN 10x/0.25, W.D. 5.5 mm - N-PLAN 40x/0.65, W.D. 0.45 mm - W-PLAN 100x/0.36-1.25, W.D. 0.1 mm, with iris (oil immersion) All objectives are treated with an anti-fungus treatment.		
Observation modes	Brightfield and darkfield.		
Condenser	Abbe N.A. 1.25, with iris diaphragm, focusable and centerable. Darkfield N.A. 1.36 with built-in X-LED ³ .		

Description

Part

B-380 Series - Comparison chart

Model	Head	Eyepiece	Nosepiece	Objectives	Stage	Focusing	Condenser	Illuminator
B-382PL-ALC	Binocular, 30° inclined	WF 10x/20	Quintuple, reversed	N-PLAN 4x, 10x, 40x, 100x (oil/ water)	Double layer, 160x140 mm, moving range 78x54 mm	Coaxial coarse and fine, limit stop	Abbe N.A. 1.25, iris diaphragm, focusable and centrable	3.6 W X-LED ³ , ALC control
B-383PL	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	N-PLAN 4x, 10x, 40x, 100x (oil/ water)	Double layer, 160x140 mm, moving range 78x54 mm	Coaxial coarse and fine, limit stop	Abbe N.A. 1.25, iris diaphragm, focusable and centrable	3.6 W X-LED ³ , manual brightness control
B-382PLi-ALC	Binocular, 30° inclined	WF 10x/20	Quintuple, reversed	IOS N-PLAN 4x, 10x, 40x, 100x (oil/ water)	Double layer, 233x147 mm, moving range 78x54 mm, X-axis rackless	Coaxial coarse and fine, limit stop	Abbe N.A. 1.25, iris diaphragm, focusable and centrable	3.6 W X-LED ³ , ALC control
B-383PLi	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	IOS N-PLAN 4x, 10x, 40x, 100x (oil/ water)	Double layer, 233x147 mm, moving range 78x54 mm, X-axis rackless	Coaxial coarse and fine, limit stop	Abbe N.A. 1.25, iris diaphragm, focusable and centrable	3.6 W X-LED ³ , manual brightness control
B-382PH-ALC	Binocular, 30° inclined	WF 10x/20	Quintuple, reversed	W-PLAN 4x, 10xPH, 40xPH, 100xPH (oil)	Double layer, 160x140 mm,moving range 78x54 mm	Coaxial coarse and fine, limit stop	Phase condenser (10x/20x, 40x, 100x) with darkfield (dry) and brightfield	3.6 W X-LED ³ , ALC control
B-383PH	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	W-PLAN 4x, 10xPH, 40xPH, 100xPH (oil)	Double layer, 160x140 mm,moving range 78x54 mm	Coaxial coarse and fine, limit stop	Phase condenser (10x/20x, 40x, 100x) with darkfield (dry) and brightfield	3.6 W X-LED ³ , manual brightness control
B-382PHi-ALC	Binocular, 30° inclined	WF 10x/20	Quintuple, reversed	IOS W-PLAN 10xPH, 20xPH, 40xPH, 100xPH (oil)	Double layer, 233x147 mm, moving range 78x54 mm, X-axis rackless	Coaxial coarse and fine, limit stop	Phase condenser (10x/20x, 40x, 100x) with darkfield (dry) and brightfield	3.6 W X-LED ³ , ALC control
В-383РНі	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	IOS W-PLAN 10xPH, 20xPH, 40xPH, 100xPH (oil)	Double layer, 233x147 mm, moving range 78x54 mm, X-axis rackless	Coaxial coarse and fine, limit stop	Phase condenser (10x/20x, 40x, 100x) with darkfield (dry) and brightfield	3.6 W X-LED ³ , manual brightness control
B-383POL	Trinocular, 30° inclined, 360° rotating	WF 10x/20 (one with crosshair reticle)	Quadruple, reversed	IOS N-PLAN POL 4x, 10x, 40x, 60x	Round, 360° rotating, 160 mm diameter, with sample clips and stop knob	Coaxial coarse and fine, limit stop	Abbe N.A. 1.25, iris diaphragm, focusable and centrable. With rotating polarizer	3.6 W X-LED ³ , manual brightness control
B-383MET	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	IOS W-PLAN MET 4x, 10x, 20x, 50x	Double layer, 233x147 mm, moving range 78x54 mm, X-axis rackless	Coaxial coarse and fine, limit stop	Abbe N.A. 1.25, iris diaphragm, focusable and centrable	Transmitted and incident: 3.6 W X-LED³, manual brightness control
B-383LD1	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	IOS N-PLAN 4x, 10x, 20x, 40x, 100x (oil/ water)	Double layer, 233x147 mm, moving range 78x54 mm, X-axis rackless	Coaxial coarse and fine, limit stop	Abbe N.A. 1.25, iris diaphragm, focusable and centrable	Transmitted: 3.6W X-LED ³ , manual brightness control 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)	Double layer, 233x147 mm, moving range 78x54 mm, X-axis rackless	Coaxial coarse and fine, limit stop	Abbe N.A. 1.25, iris diaphragm, focusable and centrable	Transmitted: 3.6W X-LED³, manual brightness control Incident: High- power white LED
B-383FL	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	IOS N-PLAN 4x, 10x, 20x, 40x, 100x (oil/ water)	Double layer, 233x147 mm, moving range 78x54 mm, X-axis rackless	Coaxial coarse and fine, limit stop	Abbe N.A. 1.25, iris diaphragm, focusable and centrable	Transmitted: 3.6W X-LED³, manual brightness control Incident: HBO 100 W high-pressure mercury bulb
B-383DK	Trinocular, 30° inclined, 360° rotating	WF 10x/20	Quintuple, reversed	N-PLAN 4x, 10x, 40x, W-PLAN 100x (oil, with iris diaphragm)	Double layer, 160x140 mm, moving range 78x54 mm	Coaxial coarse and fine, limit stop	Abbe N.A. 1.25, iris diaphragm, focusable and centrable. Darkfield N.A. 1.36 with built-in X-LED ³	3.6 W X-LED ³ , manual brightness control

B-380 Series - Accessories

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ACCESSORIES FOR B-380
M-160
             Evepiece Wide Field, WF 10x/20, High Evepoint.
                                                                                          M-069 - Solar battery pack
M-161
             Eyepiece Wide Field, EW 15x/16.
                                                                                          Included battery: rechargeable – Lithium-Poly. Capacity: 2600 mAh.
             Eyepiece Wide Field, WF 20x/10.
                                                                                          Output voltage: 5.5Vdc. - Dimensions: 120x73x10 mm.
M-162
M-163
             Micrometer eyepiece WF 10x/20, 10mm/100um.
                                                                                          Autonomy: over 6 hours at medium intensity (X-LED<sup>3</sup>).
M-008.1
             Eyepiece with pointer WF 10x/20.
                                                                                          Charging modes: with solar panel (12h),
M-164
             N-PLAN objective 4x/0.10 (only for B-382PL-ALC, B-383PL, B-383DK).
                                                                                          with external USB power supply (not included)
             N-PLAN objective 10x/0.25 (only for B-382PL-ALC, B-383PL, B-383DK).
M-165
                                                                                          or from PC USB port (5h).
M-166
             N-PLAN objective 20x/0.40 (only for B-382PL-ALC, B-383PL, B-383DK).
             N-PLAN objective 40x/0.65 (only for B-382PL-ALC, B-383PL, B-383DK).
M-167
             N-PLAN objective 60x/0.80 (only for B-382PL-ALC, B-383PL, B-383DK).
M-168
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)
             W-PLAN PH objective 10x/0.25 (only for B-383PH, B-382PH-ALC).
M-170
M-171
             W-PLAN PH objective 20x/0.40 (only for B-383PH, B-382PH-ALC).
                                                                                          15104 - Cleaning kit
             W-PLAN PH objective 40x/0.65 (only for B-383PH, B-382PH-ALC).
M-172
                                                                                          It cleans glass quickly and effectively,
M-182
             W-PLAN PH objective 100x/1.25 (Oil) (only for B-383PH, B-382PH-ALC).
                                                                                          without leaving residue or odor.
M-1120.N
             IOS W-PLAN PH objective 10x/0.25 (only for B-383PHi, B-382PHi-ALC).
                                                                                          Ideal for precision lens or prism cleaning.
             IOS W-PLAN PH objective 20x/0.40 (only for B-383PHi, B-382PHi-ALC). IOS W-PLAN PH objective 40x/0.65 (only for B-383PHi, B-382PHi-ALC).
M-1121.N
M-1122.N
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).
             IOS W-PLAN MET objective 4x/0.10 (only for B-383MET).
M-337
             IOS W-PLAN MET objective 10x/0.25 (only for B-383MET).
M-338
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-635
             Heating stage, with digital temperature controller (only on newly purchased microscopes) for B-380IOS.
M-174.1
             Polarizing set, filters only (for B-380 series).
M-175
             Rotating table for polarizing set.
M-185
             DF condenser for dry objectives.
M-156
             Field diaphragm for Koehler illumination (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.
             C-Mount adapter for 1/2" sensor.
C-Mount adapter for 1/3" sensor.
M-114
M-115
M-116
             C-Mount adapter for 2/3" sensor.
M-005
             Micrometer slide for software calibration, 1mm/10um, 10mm/100um.
DC-003
             TNT dust cover, medium - 600(l)x550(h) mm.
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15008

15104

VP-380

How to connect the cameras to our microscopes.

OPTIKA immersion oil 10ml.

IQ/OQ/PQ Validation Protocols.

Cleaning kit.

Please refer to the Adapter reference list on Digital section.

Headquarters and Manufacturing Facilities

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