OPTIKA®
MICROSCOPES
ITALY

MS/SFX Series



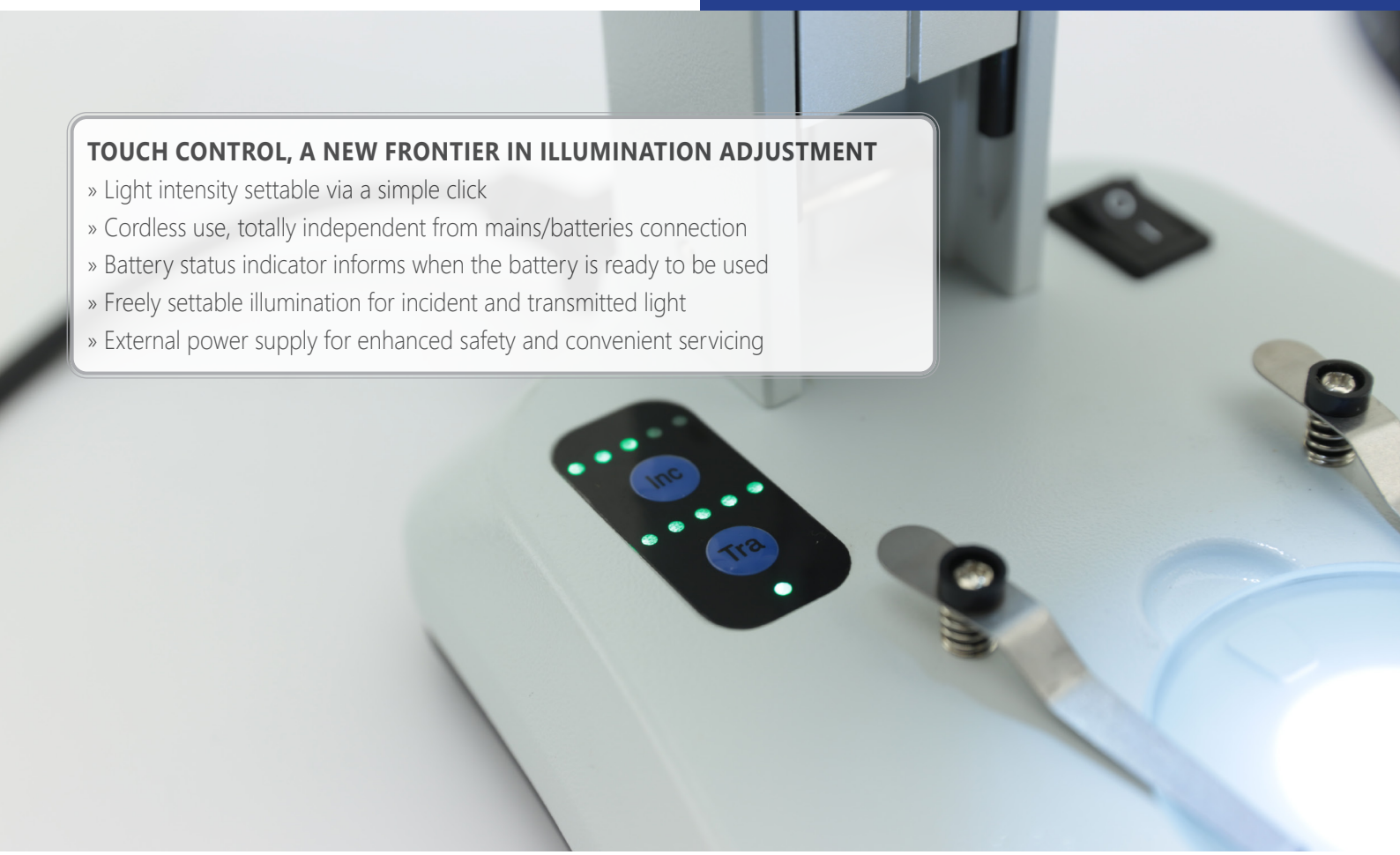
Entry-Level Monoscopes & Stereomicroscopes For Students

Addressed For Simplicity & The Youngest Users



EDUCATIONAL STEREOMICROSCOPES DESIGNED FOR NOVICE USERS

» Particularly recommended for primary/secondary schools & amateurs
» 3D Greenough view for high resoluted images & large field depth
» Turnable objectives, up to 3 magnifications on 20 mm field number
» Longlife LED illumination (providing over 20 years of use
» Sturdy and durable for extended lifetime; compact and intuitive



TOUCH CONTROL, A NEW FRONTIER IN ILLUMINATION ADJUSTMENT

» Light intensity settable via a simple click
» Cordless use, totally independent from mains/batteries connection
» Battery status indicator informs when the battery is ready to be used
» Freely settable illumination for incident and transmitted light
» External power supply for enhanced safety and convenient servicing



MS/SFX Series

A great variety of mainly cordless binocular stereomicroscopes with turnable objectives, FN 20 eyepieces, 1 W LED transmitted/incident illumination and different stands to start exploring and discovering sciences and materials, including biology, entomology, rocks, plants, and many more specimens. Most of the models are equipped with premium features, such as the exclusive, comfortable touch control and the rechargeable batteries. Slim and easy to carry, all the models are equipped with long lasting LED illumination to provide over 20 years of use



Turnable objectives, up to 3 magnifications on 20 mm field number
SFX series is designed for basic operations, being provided with widefield eyepieces and objective turret magnification changer (up to 3 magnifications) for step magnification

Touch control - light intensity settable via a simple click
SFX Series represents a new frontier in illumination adjustment with an incredibly comfortable solution: the touch control, consisting in 10 pre-set intensity levels (5 for transmitted, 5 for incident)

Cordless use, totally independent from the mains/batteries connection
SFX Series works with or without the batteries in place and are provided with three NiMH rechargeable batteries for the longest autonomy in outdoor use (4-hour autonomy, at medium intensity)

MS/SFX Series



Battery status indicator informs when batteries are ready to be used
SFX Series has a smart charging indicator which indicates current charging status at all times - even when not in charge or during storage: if it is on, it means it is immediately ready to work

Longlife LED illumination (providing over 20 years of use)
Money & energy saving thanks to LED long lifetime (65.000 hours, 22 years in case of 8 hours/day) which is more than 20 times compared to a standard halogen bulb



External power supply for enhanced safety and convenient servicing
OPTIKA's safety first approach drives to the use of a low voltage, multi-plug, external power supply in order to prevent any risk of electric shock and heatflow inside the unit

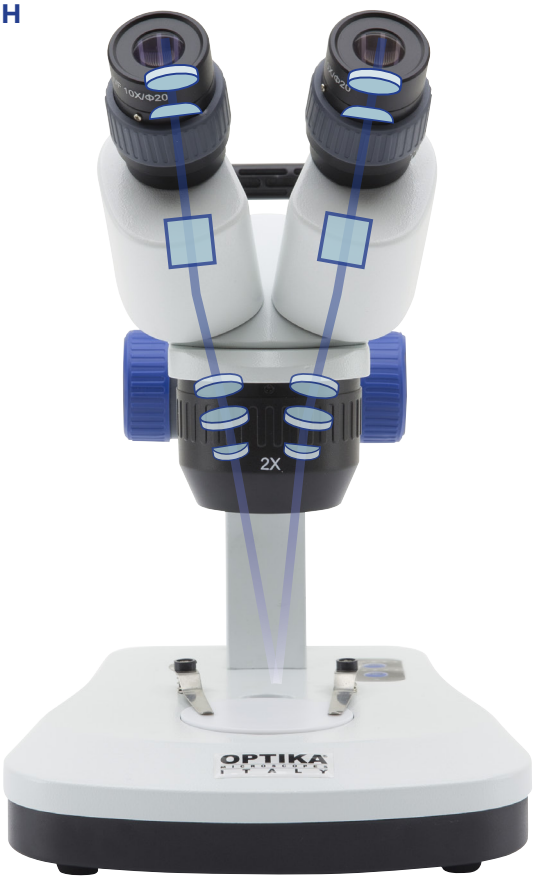


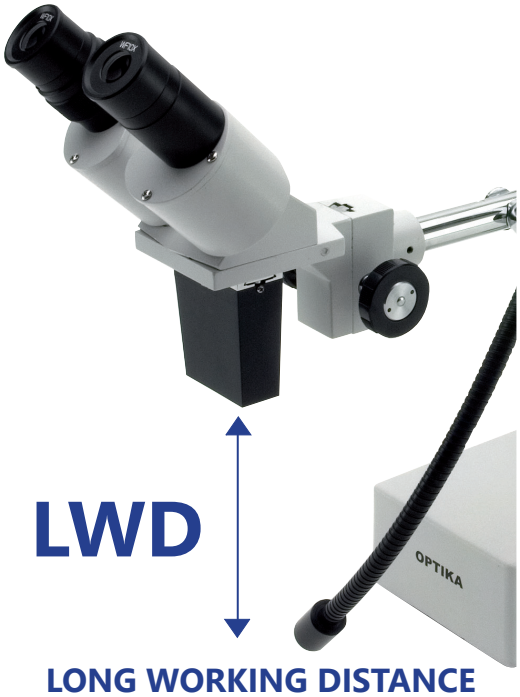
ST-50Led - When Long Working Distance Is Required
ST-50Led has a special objective with long working distance that allows you to inspect bulky samples, thanks also to its overhanging arm stand and LED flexible incident light

MS-01 - Multifunctional Testing Equipment
MS-01 is a portable monoscope ideal as versatile testing equipment especially for surface analysis and measurements to be used directly on the specimen with 10x objective and penlight for incident illumination

GREENOUGH



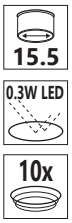




LONG WORKING DISTANCE

MS/SFX Series - Range

MS-1





Portable monoscope ideal as multifunctional testing equipment especially for surface analysis and measurements to be used directly on the specimen. Equipped with fixed objective (10x), FN 15.5 eyepiece with crosshair and 0.3 W LED penlight for incident illumination powered by rechargeable batteries

- **Eyepiece:** WF10x/15.5 mm, micrometric with crosshair.
- **Objective:** Achromatic 10x with anti-fungus treatment.
- **Working distance:** 6 mm.
- **Focusing:** Rack and pinion focusing mechanism.
- **Illumination:** 0.3 W LED incident penlight with batteries (not included).

SFX-31





Cordless binocular stereomicroscope ideal for students, schools and amateurs to dissect and discover mainly biology and materials science in 3D, with turnable objective (2x-4x), FN 20 eyepieces, pillar stand and 1 W LED transmitted / incident illumination with rechargeable batteries. Slim and easy to carry, it is equipped with long lasting LED illumination to provide over 20 years of use

- **Head:** Binocular, 45° inclined.
- **Dioptric adjustment:** Both eyepieces.
- **Eyepieces:** WF10x/20 mm, secured by screw and with rubber cups.
- **Objective:** Achromatic 2x-4x with anti-fungus treatment.
- **Working distance:** 57 mm.
- **Stand:** Pillar with focus.
- **Focusing:** Rack and pinion focusing mechanism.
- **Illumination:** 1 W LED incident and transmitted, with brightness control, rechargeable batteries. Color temperature: 6,300 K. Multi-plug 100-240Vac/6Vdc external power supply.

SFX-33





Cordless binocular stereomicroscope ideal for students, schools and amateurs to dissect and discover mainly biology and materials science in 3D, with turnable objective (2x-4x), FN 20 eyepieces, fixed arm with handle and 1 W LED transmitted / incident illumination with comfortable touch control and rechargeable batteries. Slim and easy to carry, it is equipped with long lasting LED illumination to provide over 20 years of use

- **Head:** Binocular, 45° inclined.
- **Dioptric adjustment:** Both eyepieces.
- **Eyepieces:** WF10x/20 mm, secured by screw and with rubber cups.
- **Objective:** Achromatic 2x-4x with anti-fungus treatment.
- **Working distance:** 57 mm
- **Stand:** Fixed with handle and focus.
- **Focusing:** Rack and pinion focusing mechanism.
- **Illumination:** 1 W LED incident and transmitted, with touch brightness control, rechargeable batteries. Color temperature: 6,300 K. Multi-plug 100-240Vac/6Vdc external power supply.

SFX-51





Cordless binocular stereomicroscope ideal for students, schools and amateurs to dissect and discover mainly biology and materials science in 3D, with turnable objective (2x-4x), FN 20 eyepieces, 360° rotating head, fixed arm with handle and 1 W LED transmitted / incident illumination with comfortable touch control and rechargeable batteries. Slim and easy to carry, it is equipped with long lasting LED illumination to provide over 20 years of use

- **Head:** Binocular, 45° inclined; 360° rotating.
- **Dioptric adjustment:** Both eyepieces.
- **Eyepieces:** WF10x/20 mm, secured by screw and with rubber cups.
- **Objective:** Achromatic 2x-4x with anti-fungus treatment.
- **Working distance:** 76 mm
- **Stand:** Fixed with handle and focus.
- **Focusing:** Rack and pinion focusing mechanism.
- **Illumination:** 1 W LED incident and transmitted, with touch brightness control, rechargeable batteries. Color temperature: 6,300 K. Multi-plug 100-240Vac/5Vdc external power supply

MS/SFX Series - Range

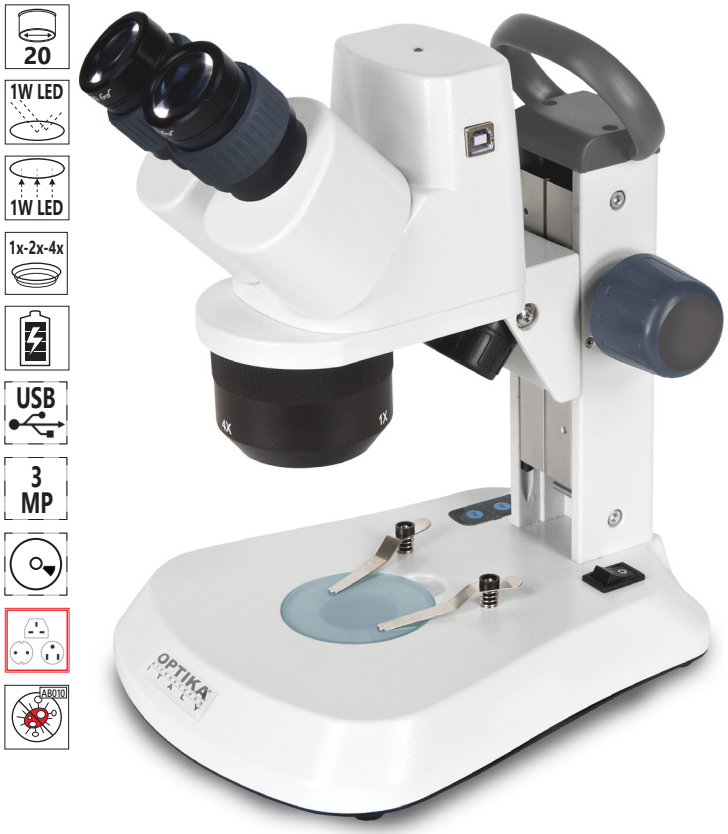
SFX-91



Cordless binocular stereomicroscope ideal for students, schools and amateurs to dissect and discover mainly biology and materials science in 3D, with turnable objective (1x-2x-4x), FN 20 eyepieces, precision fixed arm with handle and 1 W LED transmitted / incident illumination with comfortable touch control and rechargeable batteries. Slim and easy to carry, it is equipped with long lasting LED illumination to provide over 20 years of use

- **Head:** Binocular, 45° inclined.
- **Dioptric adjustment:** Both eyepieces.
- **Eyepieces:** WF10x/20 mm, secured by screw and with rubber cups.
- **Objective:** Achromatic 1x-2x-4x with anti-fungus treatment.
- **Working distance:** 60 mm.
- **Stand:** High-grade, precision fixed with handle and focus.
- **Focusing:** Rack and pinion focusing mechanism.
- **Illumination:** 1 W LED swiveling incident and transmitted, with touch brightness control, rechargeable batteries. Color temperature: 6,300 K. Multi-plug 100-240Vac/6Vdc external power supply

SFX-91D

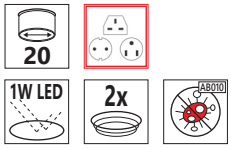


Cordless digital binocular stereomicroscope ideal for students, schools and amateurs to dissect and discover mainly biology and materials science in 3D, with turnable objective (1x-2x-4x), FN 20 eyepieces, precision fixed arm with handle and 1 W LED transmitted / incident illumination with comfortable touch control and rechargeable batteries. Slim and easy to carry, it is equipped with long lasting LED illumination to provide over 20 years of use

- **Head:** Binocular with integrated 3 MP camera, 45° inclined.
- **Dioptric adjustment:** Both eyepieces.
- **Eyepieces:** WF10x/20 mm, secured by screw and with rubber cups.
- **Objective:** Achromatic 1x-2x-4x with anti-fungus treatment.
- **Working distance:** 60 mm.
- **Stand:** High-grade, precision fixed with handle and focus.
- **Focusing:** Rack and pinion focusing mechanism.
- **Illumination:** 1 W LED swiveling incident and transmitted, with touch brightness control, rechargeable batteries. Color temperature: 6,300 K. Multi-plug 100-240Vac/6Vdc external power supply.

MS/SFX Series - Range

ST-50Led





Binocular stereomicroscope ideal for large specimens, with long working distance fixed objective (2x), FN 20 eyepieces, overhanging stand and 1 W LED swiveling incident illumination. Additional objectives available for different magnifications

- **Head:** Binocular, 45° inclined.
- **Dioptric adjustment:** Left eyepiece.
- **Eyepieces:** WF10x/20 mm, secured by screw.
- **Objective:** Achromatic 2x with anti-fungus treatment.
- **Working distance:** 110 mm.
- **Stand:** Overhanging with focus.
- **Focusing:** Rack and pinion focusing mechanism.
- **Illumination:** 1 W LED swiveling incident on flexible arm. Color temperature: 6,300 K. Multi-plug 100-240Vac/6Vdc external power supply.

MS/SFX Series - Comparison Chart

Model	Head	Eyepieces	Objective	Working Distance	Stand	Illumination
MS-1	-	WF 10x/15.5	10x fixed	6 mm	Fixed with focus	0.3 W LED penlight. Powered by AAA batteries (not included)
SFX-31	Binocular, 45° inclined, fixed	WF 10x/20	2x – 4x selectable	57 mm	Pillar with focus	Incident: 1 W LED Transmitted: 1 W LED Dial brightness control Rechargeable batteries
SFX-33	Binocular, 45° inclined, fixed	WF 10x/20	2x – 4x selectable	57 mm	Fixed with focus and handle	Incident: 1 W LED Transmitted: 1 W LED Touch brightness control Rechargeable batteries
SFX-51	Binocular, 45° inclined, 360° rotating	WF 10x/20	2x – 4x selectable	76 mm	Fixed with focus and handle	Incident: 1 W LED Transmitted: 1 W LED Touch brightness control Rechargeable batteries
SFX-91	Binocular, 45° inclined, fixed	WF 10x/20	1x – 2x – 4x selectable	60 mm	High-grade fixed with focus and handle	Incident: 1 W LED Transmitted: 1 W LED Touch brightness control Rechargeable batteries
SFX-91D	Binocular, 45° inclined, 3 MP integrated camera	WF 10x/20	1x – 2x – 4x selectable	60 mm	High-grade fixed with focus and handle	Incident: 1 W LED Transmitted: 1 W LED Touch brightness control Rechargeable batteries
ST-50Led	Binocular, 45° inclined, fixed	WF 10x/20	2x fixed	119 mm	Overhanging with focus	Incident: 1 W LED on flexible arm

MS/SFX Series - Accessories

ACCESSORIES FOR MS-1

Miscellaneous

DC-001 Plastic dust cover, small, 340(l)x400(h) mm
M-899 Pen illuminator
15104 Cleaning kit

ACCESSORIES FOR SFX SERIES & ST-50Led

Eyecups & Eyepieces

ST-001 WF5x/22 eyepieces (pair), 30.5mm diameter (except for ST-50Led)
ST-002 WF10x/20 eyepieces (pair)
ST-003 WF15x/15 eyepieces (pair)
ST-004 WF20x/13 eyepieces (pair)
ST-005 WF10x/20 micrometric eyepiece
ST-001.1 WF5x/22 eyepieces (pair), 30mm diameter (only for ST-50Led)

Objectives

ST-025 1x objective (only for ST-50Led)
ST-026 3.5x objective (only for ST-50Led)

Stage

ST-014 Glass object-plate, 95mm diameter (only for ST-30FX)
ST-015 Glass object-plate, 60mm diameter (except for ST-30FX & ST-50Led)
ST-011 White/black object-plate, 60mm diameter (except for ST-30FX & ST-50Led)
ST-012 White/black object-plate, 95mm diameter (only for ST-30FX)

Camera Adapters

M-114 0.5x C-Mount projection lens
M-115 0.35x C-Mount projection lens
M-118 0.75x C-Mount projection lens

Miscellaneous

M-113.1 Ring adapter, 30mm (for monocular and binocular microscopes) (except ST-50Led)
M-113.2 Ring adapter, 30.5mm (for monocular and binocular microscopes) (only for ST-50Led)
DC-001 Plastic dust cover, small, 340(l)x400(h) mm (except for ST-50Led)
DC-002 Plastic dust cover, medium, 490(l)x490(h) mm (only for ST-50Led)
M-005 Micrometric slide, 26x76mm, with 2 scales (1mm/100 & 10mm/100)
15104 Cleaning kit
ST-041 Sample clip (only for ST-30FX)
AB-010 Antibacterial surface treatment, only for newly purchased microscope

15104 - Cleaning kit
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.

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