

MS/SFX Series



Entry-Level Monoscopes & Stereomicroscopes For Students

Addressed For Simplicity & The Youngest Users

DESIGNED FOR NOVICE USERS

- » Reliable microscopes for education
- » Particularly recommended for primary and secondary schools
- » Ideal for discovering, biology, material science and amateur field

EDUCATIONAL STEREOMICROSCOPES

- » Wide range of solutions and magnifications
- » Up to, 20 mm field number
- » Equipped with high performance LED illumination



Rechargeable Batteries On Field Use

CORDLESS, EASILY TRANSPORTABLE

- » Stable, yet compact and light weight
- » Dedicated handle for enhanced comfort
- » Fast recharging time

NO NEED FOR POWER CONNECTION

- » Powered by rechargeable batteries (SFX models)
- » Long-lasting, up to 8 hours from a single charge
- » Always ready to work, everywhere



Attention To Detail

HANDY, YET EXTREMELY STABLE

- » Compact, practical and intuitive to use
- » Optics ensuring good quality images
- » Get impressive images and live videos with eyepiece cameras

EASY TO TAKE CARE OF

- » Sturdy, durable for extended lifetime
- » No maintenance required
- » Dust cover (included) protects from environmental contaminants



A New Frontier In Illumination Adjustment

HIGH COMFORT TOUCH CONTROL

- » Light intensity settable via a simple click
- » 5 pre-set intensity levels
- » Separated control for transmitted and incident light

FULFILL ALL THE LEARNING CHALLENGES

- » Turnable objective with up to 3 magnifications
- » Precision stand for accurate focusing
- » 3 MP integrated digital camera (on SFX-91D)



MS/SFX Series

OPTIKA MS/SFX Series includes a wide selection of mono/stereomicroscopes designed to satisfy every need in both teaching and amateur fields.

Slim and easy to carry solutions, it is equipped with all you need to start learning to use a scientific instrument: 20 mm field of view, up to 40x maximum magnification, several options concerning illumination (including rechargeable batteries), objectives, and stands.

Greenough Optical System

The V-shape optical path of Greenough allows us to design a very compact and a slim unit, highly versatile and appreciated for the 3D viewing. Vertical heads or 45° inclined to grant comfortable posture to the user even after several hours of operation.

Incorporating the Most Wanted Features in a Student Microscope

Stereomicroscopes are the best way to enter the world of magnified 3D vision of objects such as insects, rocks, plants, and many other samples. The binocular head ensures a comfortable view. Optional eyepieces and objectives allow to increase even further the maximum magnification.



LED with Rechargeable Batteries - Optimized Illumination

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. **All the SFX Series** has internal rechargeable batteries for up to 8 hours (at medium intensity) of outdoor use.

360° Rotating Heads

SFX-51 and **SFX-52** have a 360° rotating head, for the most comfortable teaching experience. The head, through rotation, can be shared among different users or adjusted to the user position.

LWD - Long Working Distance

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.



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Legend

1. Transport handle, SFX-91.
2. Fly eyes, with SFX-91D and 4x objective.
3. Mineral rock, with ST-30FX and 4x objective.
4. Mineral rock, with SFX-51 and 4x objective.
5. Transmitted and incident light setting, in recharging mode, SFX-52.
6. Coin, with SFX-91 and 4x objective.

MS/SFX Series - Range

MS-1



Portable microscope but also a multifunctional testing instrument for applications where magnifying lenses are not good enough. It has to be used directly on the specimen to be inspected.
Total magnification: 100x.

Observation mode: Brightfield.

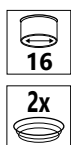
Eyepiece: WF 10x/15.5 mm, micrometric with cross.

Objective: Achromatic 10x with anti-fungus treatment.

Focusing: Rack and pinion controlled knobs placed on both sides of the stand.

Illumination: 0.3 W Led penlight. Powered by AAA batteries (not included).

MS-2



Entry-level monoscope with fixed objective (2x) that can be combined to external illuminators, in case some light is required.

Observation mode: Brightfield.

Head: Monocular head, 45° inclined, 360° rotating.

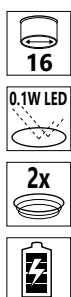
Objective: Achromatic 2x with anti-fungus treatment.

Stand: Pillar stand with focus.

Focusing: Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

Illumination: Without illumination.

STX



Simple binocular stereomicroscope equipped with fixed objective (2x) and LED incident illumination, combining bright and uniform illumination with low consumption. Powered by AA batteries (not included).

Observation mode: Brightfield.

Head: Binocular vertical head.

Interpupillary distance: Adjustable.

Eyepieces: WF 10x/16 mm.

Objective: Achromatic 2x with anti-fungus treatment.

Stand: Fixed stand with focus.

Focusing: Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

Illumination: Incident: 0.1W LED, powered by 2 AA batteries (not included).

ST-30FX



Classic binocular stereomicroscope equipped with turnable objective (2x-4x), pillar stand, and incredibly bright and uniform LED illumination (transmitted and incident).

Observation mode: Brightfield.

Head: Binocular head, 45° inclined.

Interpupillary distance: Adjustable.

Dioptric adjustment: On the left eyepiece.

Eyepieces: WF 10x/20 mm, secured by screw, with rubber cups.

Objective: Achromatic 2x-4x with anti-fungus treatment.

Stand: Pillar stand with focus.

Focusing: Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

Illumination: Incident: 1 W LED, transmitted: 1 W LED.

Color temperature: 6,300 K.

100-240Vac/12Vdc external power supply.

SFX-31



Binocular stereomicroscope equipped with turnable objective (2x-4x), pillar stand, and incredibly bright and uniform LED illumination (transmitted and incident) with rechargeable batteries.

Observation mode: Brightfield.

Head: Binocular heads, 45° inclined.

Interpupillary distance: Adjustable.

Dioptric adjustment: On both eyepieces.

Eyepieces: WF 10x/20 mm, secured by screw.

Objective: Achromatic 2x-4x with anti-fungus treatment.

Stand: Pillar stand with focus.

Focusing: Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

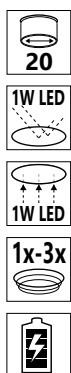
Illumination: Incident: 1 W LED, transmitted: 1 W LED. Dial brightness

control. Rechargeable batteries.

Color temperature: 6,300 K.

MS/SFX Series - Range

SFX-32



Binocular stereomicroscope equipped with turnable objective (1x-3x), pillar stand, and incredibly bright and uniform led illumination (transmitted and incident) with rechargeable batteries.

Observation mode: Brightfield.

Head: Binocular heads, 45° inclined.

Interpupillary distance: Adjustable.

Dioptric adjustment: On both eyepieces.

Eyepieces: WF 10x/20 mm, secured by screw.

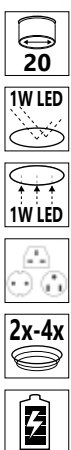
Objective: Achromatic 1x-3x with anti-fungus treatment.

Stand: Pillar stand with focus.

Focusing: Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

Illumination: Incident: 1 W LED, transmitted: 1 W LED. Dial brightness control. With rechargeable batteries.
Color temperature: 6,300 K.

SFX-33



Binocular stereomicroscope equipped with turnable objective (2x-4x), fixed arm with handle, and incredibly bright and uniform led illumination (transmitted and incident), settable through the exclusive touch control. Powered by rechargeable batteries.

Observation mode: Brightfield.

Heads: Binocular head, 45° inclined.

Interpupillary distance: Adjustable.

Dioptric adjustment: On both eyepieces.

Eyepieces: WF 10x/20 mm, secured by screw.

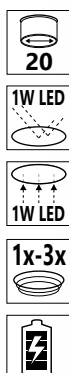
Objective: Achromatic 2x-4x with anti-fungus treatment.

Stand: Fixed stand with focus and handle.

Focusing: Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

Illumination: Incident: 1 W LED, transmitted: 1 W LED. Touch brightness control. With rechargeable batteries.
Color temperature: 6,300 K.
Multi-plug 100-240Vac/5Vdc external power supply.

SFX-34



Binocular stereomicroscope equipped with turnable objective (1x-3x), fixed arm with handle, and incredibly bright and uniform led illumination (transmitted and incident), settable through the exclusive touch control. Powered by rechargeable batteries.

Observation mode: Brightfield.

Head: Binocular head, 45° inclined.

Interpupillary distance: Adjustable.

Dioptric adjustment: On both eyepieces.

Eyepieces: WF 10x/20 mm, secured by screw.

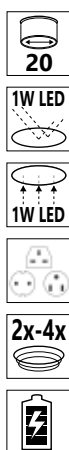
Objective: Achromatic 1x-3x with anti-fungus treatment.

Stand: Fixed stand with focus and handle.

Focusing: Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

Illumination: Incident: 1W LED, transmitted: 1W LED. Touch brightness control. With rechargeable batteries.
Color temperature: 6,300 K.

SFX-51



Binocular stereomicroscope equipped with turnable objective (2x-4x), 360° rotating head, fixed arm with handle, and incredibly bright and led uniform illumination (transmitted and incident), settable through the exclusive touch control. Powered by rechargeable batteries.

Observation mode: Brightfield.

Head: Binocular head, 45° inclined, 360° rotating.

Interpupillary distance: Adjustable.

Dioptric adjustment: On both eyepieces.

Eyepieces: WF 10x/20 mm, secured by screw.

Objective: Achromatic 2x-4x with anti-fungus treatment.

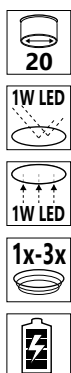
Stand: Fixed stand with focus and handle.

Focusing: Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

Illumination: Incident: 1W LED, transmitted: 1W LED. Touch brightness control. With rechargeable batteries.
Color temperature: 6,300 K.
Multi-plug 100-240Vac/5Vdc external power supply.

MS/SFX Series - Range

SFX-52



Binocular stereomicroscope equipped with turnable objective (1x-3x), 360° rotating head, fixed arm with handle, and incredibly bright and uniform led illumination (transmitted and incident), settable through the exclusive touch control. Powered by rechargeable batteries.

Observation mode: Brightfield.

Head: Binocular head, 45° inclined, 360° rotating.

Interpupillary distance: Adjustable.

Dioptric adjustment: On both eyepieces.

Eyepieces: WF 10x/20 mm, secured by screw.

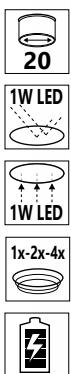
Objective: Achromatic 1x-3x with anti-fungus treatment.

Stand: Fixed stand with focus and handle.

Focusing: Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

Illumination: Incident: 1W LED, transmitted: 1W LED. Touch brightness control. With rechargeable batteries.
Color temperature: 6,300 K.

SFX-91



Binocular stereomicroscope equipped with turnable objective with 3 magnifications (1x-2x-4x), precision fixed arm with handle, and incredibly bright and uniform led illumination (transmitted and incident), settable through the exclusive touch control. Powered by rechargeable batteries.

Observation mode: Brightfield.

Head: Binocular head, 45° inclined.

Interpupillary distance: Adjustable.

Dioptric adjustment: On both eyepieces.

Eyepieces: WF 10x/20 mm, secured by screw.

Objective: Achromatic 1x-2x-4x with anti-fungus treatment.

Stand: High-grade fixed stand with focus and handle.

Focusing: Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

Illumination: Incident: 1W LED, transmitted: 1W LED. Touch brightness control. With rechargeable batteries.
Color temperature: 6,300 K.

MS/SFX Series - Range

SFX-91D



Digital binocular stereomicroscope equipped with with 3 magnifications turnable objective (1x-2x-4x), precision fixed arm with handle, and incredibly bright and uniform led illumination (transmitted and incident), settable through the exclusive touch control. Powered by rechargeable batteries.

Observation mode: Brightfield.

Head: Binocular head, 45° inclined, with built-in 3Mp USB digital camera.

Interpupillary distance: Adjustable.

Dioptric adjustment: On both eyepieces.

Eyepieces: WF 10x/20 mm, secured by screw.

Objective: Achromatic 1x-2x-4x with anti-fungus treatment.

Stand: High-grade fixed stand with focus and handle.

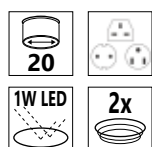
Focusing: Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

Illumination: Incident: 1W LED, transmitted: 1W LED. Touch brightness control. With rechargeable batteries.

Color temperature: 6,300 K.

Multi-plug 100-240Vac/5Vdc external power supply.

ST-50Led



Binocular stereomicroscope equipped with fixed objective (2x), swiveling LED incident illumination on an overhanging, flexible arm. Ideal for long working distance (119 mm with standard 2x objective, 165 mm with ST-025, 124 mm with ST-026).

Observation mode: Brightfield.

Heads: Binocular head, 45° inclined.

Interpupillary distance: Adjustable.

Dioptric adjustment: On the left eyepiece.

Eyepieces: WF 10x/20 mm, secured by screw.

Objective: Achromatic 2x with anti-fungus treatment.

Stand: Overhanging stand with focus.

Focusing: Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

Illumination: Incident: 1W LED 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) |
| MS-2 | Monocular, 45° inclined, 360° rotating | WF 10x/16 | 2x fixed | 57 mm | Pillar with focus | - |
| STX | Binocular, vertical, fixed | WF 10x/16 | 2x fixed | 67 mm | Fixed with focus | Incident: 0.1 W LED Powered by 2 AA batteries (not included) |
| ST-30FX | Binocular, 45° inclined, fixed | WF 10x/20 | 2x – 4x selectable | 57 mm | Pillar with focus | Incident: 1 W LED Transmitted: 1 W LED |
| 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-32 | Binocular, 45° inclined, fixed | WF 10x/20 | 1x – 3x 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-34 | Binocular, 45° inclined, fixed | WF 10x/20 | 1x – 3x 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-52 | Binocular, 45° inclined, 360° rotating | WF 10x/20 | 1x – 3x 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

| | |
|--------|---|
| ST-015 | ACCESSORIES FOR STX, MS-1 AND MS-2 Glass object-plate, 60mm diameter (for MS-2) |
| M-899 | Pen illuminator (for MS-1) |
| DC-001 | Plastic dust cover, small 340(l)x400(h) mm. |
| 15104 | Cleaning kit |

| | |
|----------|--|
| | ACCESSORIES FOR OTHER MODELS OF SFX SERIES |
| ST-001 | WF5x/22 eyepieces (pair), 30.5mm diameter. |
| ST-002 | WF10x/20 eyepieces (pair). |
| ST-003 | WF15x/15 eyepieces (pair). |
| ST-004 | WF20x/13 eyepieces (pair). |
| ST-005 | WF10x/20 eyepiece, with micrometric scale (10mm/100um). |
| ST-025 | 1x objective for ST-50Led. |
| ST-026 | 3.5x objective for ST-50Led. |
| M-113.1 | Ring adapter, 30mm. |
| M-113.2 | Ring adapter, 30.5mm (for ST-50Led). |
| ST-001.1 | WF5x/22 eyepieces (pair), 30mm diameter (for ST-50Led). |
| ST-032 | Eyecups (pair), flat. |
| ST-011 | White/black object-plate, diameter 60 mm. |
| ST-012 | White/black object-plate, diameter 95 mm (for ST-30FX). |
| ST-014 | Glass stage, diameter 95 mm (for ST-30FX). |
| ST-015 | Glass stage, diameter 60 mm. |
| 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-173 | Photo adapter for APS-C and Full Frame Reflex cameras. |
| DC-001 | Plastic dust cover, small (for all, except ST-50Led). |
| DC-002 | Plastic dust cover, medium (for ST-50Led). |
| M-005 | Micrometer slide for software calibration, 1mm/10um, 10mm/100um. |
| 15104 | Cleaning kit. |

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.

v 1.3.0 - OPTIKA reserves the right to make corrections, modifications, enhancements, improvements and other changes to its products at any time without notice.

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