OPTIKA®
MICROSCOPES
ITALY

SLX Series

Stereomicroscopes For Higher Education & Laboratory

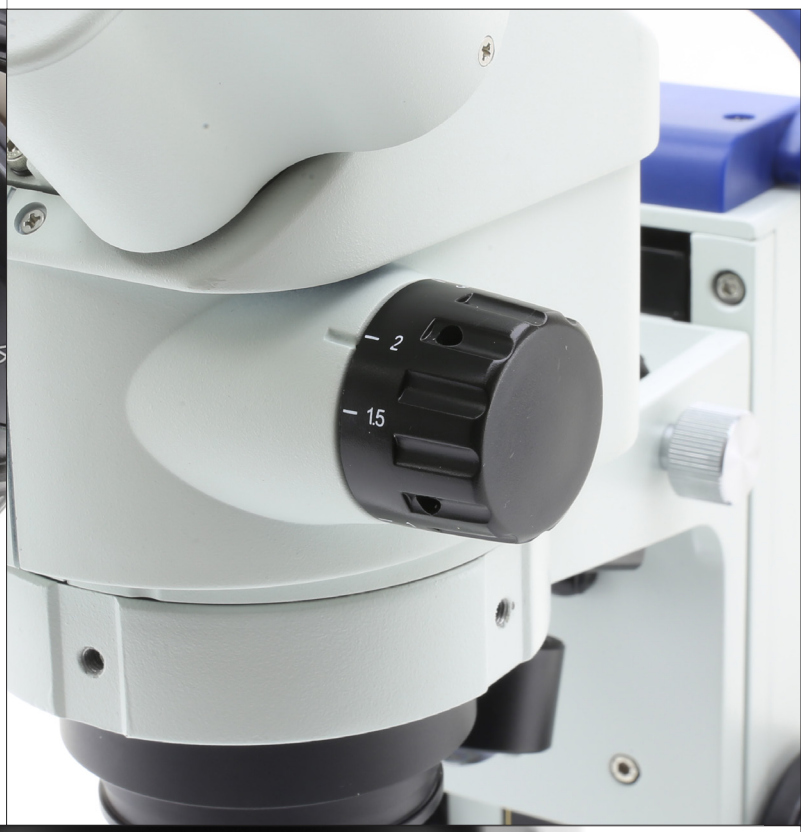
Extremely Versatile Cordless Stereo & Stereozoom Microscopes

PROFESSIONAL FEATURES FOR... WELL, EVERYONE

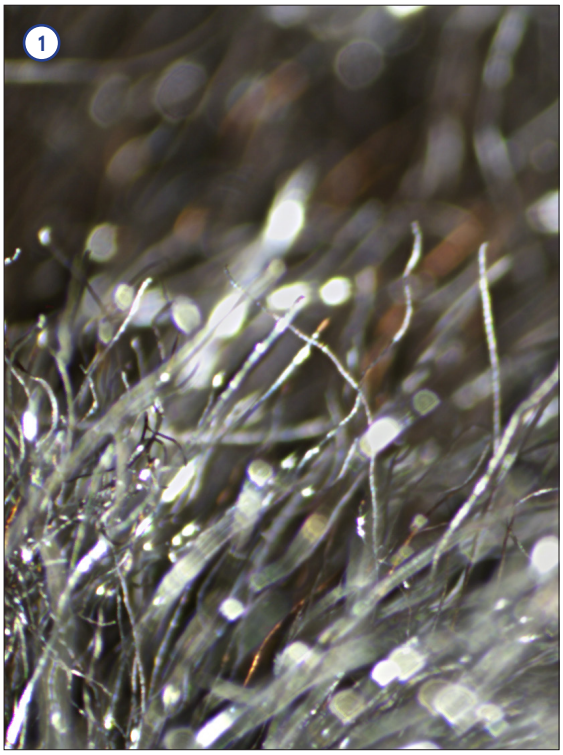
» Level up skills and become a professional user
» 3D Greenough view for high resoluted images & large field depth
» 6.43:1 ratio - 7x ... 45x - or turnable objective - 2x, 4x - on 21 mm
» Compact, practical and intuitive to use
» Sturdy and durable for extended lifetime

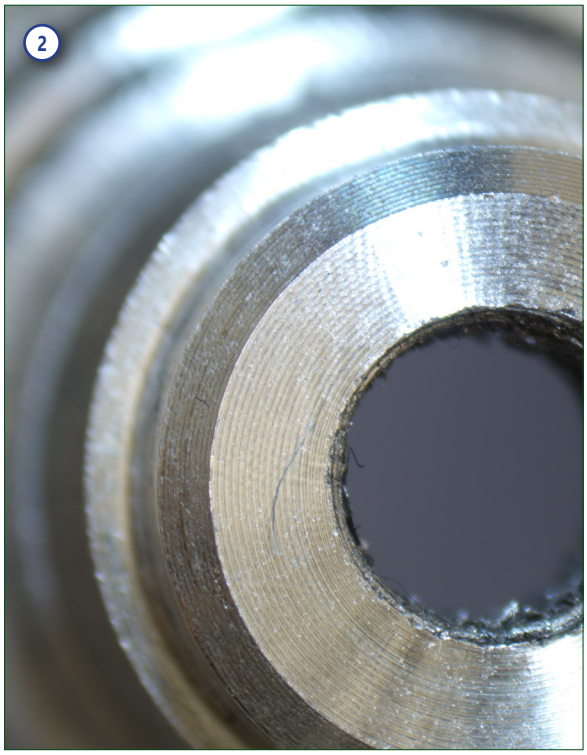
THE LONGEST AUTONOMY ON THE MARKET

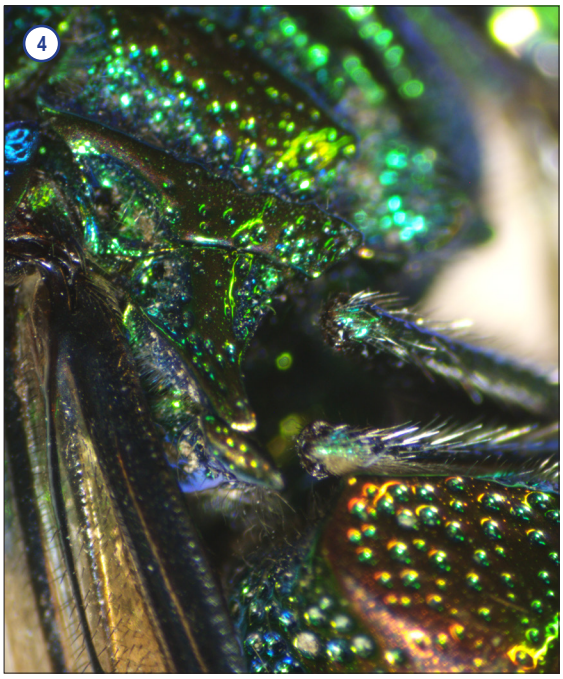
» Longlife LED illumination (providing over 20 years of use)
» Ultra-flat base with Ø 100 mm disc for diffused transmitted light
» Cordless use, totally independent from mains/batteries connection
» Freely settable illumination - incident, oblique and transmitted light
» External power supply for enhanced safety and convenient servicing

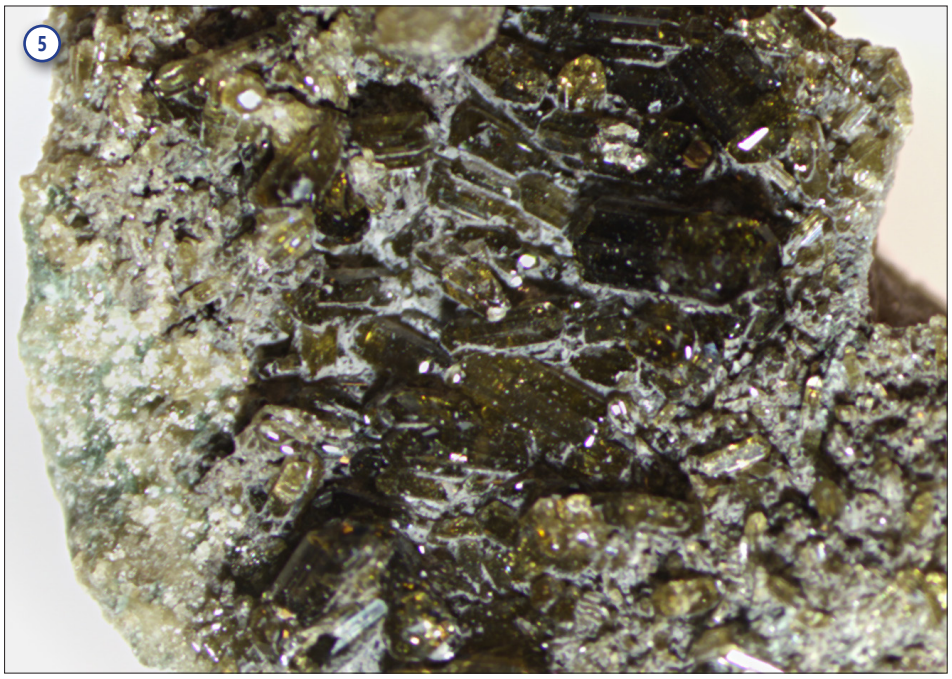


SLX Series









Legend

1. Aluminum - SLX-1 and 4x objective.
2. Component worked on lathe - SLX-2 and 3x zoom.
3. Wasp - SLX-3 and 4x zoom.
4. Fly, detail - SLX-2 and 4.5x zoom.
5. Rock - SLX-2 - 1.5x zoom.

SLX Series

Valuable configurations of cordless and modern stereo & stereozoom microscopes ideal for a variety of applications, including dissection, biology, entomology, anatomy, chemistry, material science among the others and even industrial purposes.
Provided with dual magnification or **6.43:1 zoom ratio, FN 21** high eyepoint eyepieces, high-grade precise fixed arm with focus and handle with the latest technology of **EcoLED™** illumination plus rechargeable batteries. Slim and easy to carry, all the models with high-grade precise fixed arm are equipped with long lasting **LED** illumination to provide over 20 years of use.

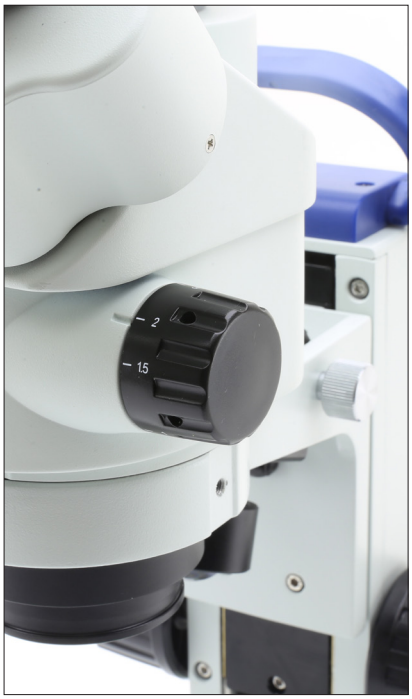
High eyepoint eyepieces for glasses wearers
These eyepieces are designed in such a way that the exit pupil is further away from the eye lens than standard eyepieces, being are well suited for eyeglasses wearers

The longest autonomy on the market ensured by EcoLED™
OPTIKA has re-designed illumination in microscopy, once again: a special coating process on optics combined with a new, higher ratio between low consumptions and ultra-efficiency has addressed us to top brightness levels

6.43:1 zoom ratio - zoom magnification from 7x to 45x
Purposely designed for professional routine inspections, the total magnification can be even extended to 135x with 20x eyepieces and 1.5x additional lens, obtaining an excellent results in this class

Ultra-flat base with Ø 100 mm disc for diffused transmitted light
A new level of ergonomy and comfort is achieved during operations, with the ultra-flat base of only 3 cm height to ensure smooth specimen movement and the Ø 100 mm for top class diffusion of the transmitted light

Stereomicroscopes For Higher Education & Laboratory



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

Cordless use, totally independent from mains/batteries connection
All models work with or without the batteries in place and are provided with three NiMH rechargeable batteries for the longest autonomy in outdoor use (12-hour autonomy, at medium intensity)

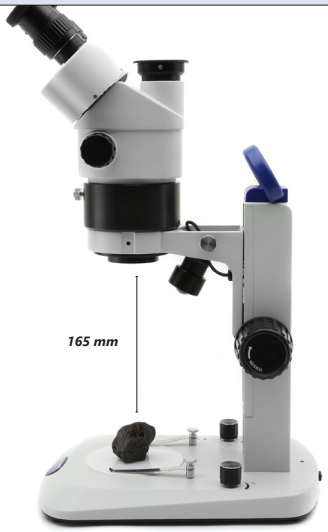
External power supply for enhanced safety and convenient servicing
OPTIKA's safety first approach drives to the use of a low voltage, multi-plug, external power supply in order to prevent any risk of electric shock and heatflow inside the unit

SLX Series - Get the most out of our accessories

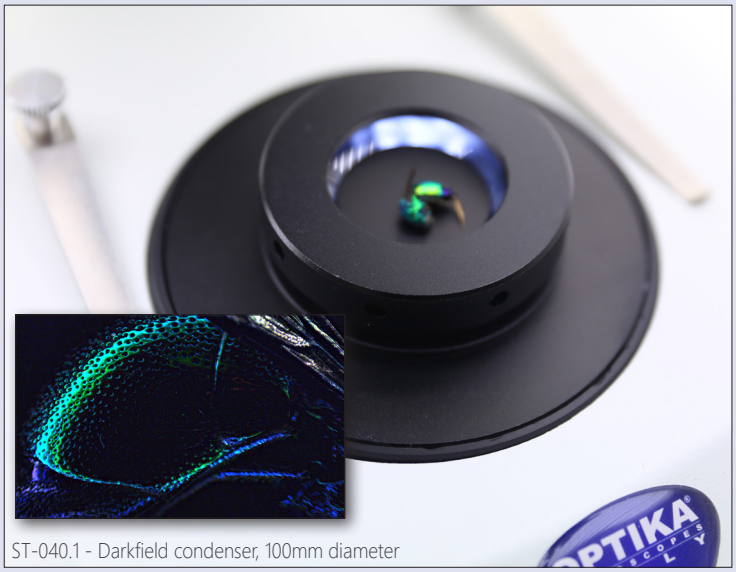
Additional Lenses
Simply to be screwed into the threads below the objectives of SLX-2 and SLX-3 to either increase or decrease total magnification, or to increase the working distance when users need to work with hands under the microscope

ST-040.1 - Darkfield condenser
This is a darkfield condenser for stereo microscopes with bottom light and 100 mm round working plate to provide darkfield microscopy features, fitting all OPTIKA stereomicroscopes with 100 mm mounting size and transmitted light

ST-091 - Additional lens 0.75x



ST-085.1 - Additional lens 0.5x (w.d. 165mm) with SZ-EXT



ST-040.1 - Darkfield condenser, 100mm diameter

SLX Series - Range

SLX-1

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 21 high eyepoint, precision fixed arm with handle and the latest technology of EcoLED™ illumination plus 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: Left eyepiece.

Eyepieces: WF10x/21 mm, high eyepoint, secured by screw and with rubber cups.

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

Working distance: 100 mm.

Stand: High-grade, precision fixed with handle and focus.

Focusing: Rack and pinion focusing mechanism.

Illumination: EcoLED™ swiveling incident and transmitted, with brightness control, rechargeable batteries.
Color temperature: 6,300 K.
Multi-plug 100-240Vac/5Vdc external power supply.

SLX-2

Cordless binocular stereozoom microscope ideal for students, schools and amateurs to dissect and discover mainly biology and materials science in 3D, with 0.7x...4.5x zoom, FN 21 high eyepoint, precision fixed arm with handle and the latest technology of EcoLED™ illumination plus 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/21 mm, high eyepoint, secured by screw and with rubber cups.

Objective: Parfocal achromatic zoom 0.7x...4.5x (6.43:1 ratio) with anti-fungus treatment.

Working distance: 100 mm.

Stand: High-grade, precision fixed with handle and focus.

Focusing: Rack and pinion focusing mechanism.

Illumination: EcoLED™ swiveling incident and transmitted, with brightness control, rechargeable batteries.
Color temperature: 6,300 K.
Multi-plug 100-240Vac/5Vdc external power supply.

SLX Series - Range

SLX-3

Cordless trinocular stereozoom microscope ideal for students, schools and amateurs to dissect and discover mainly biology and materials science in 3D, with 0.7x...4.5x zoom, FN 21 high eyepoint, precision fixed arm with handle and the latest technology of EcoLED™ illumination plus rechargeable batteries. Slim and easy to carry, it is equipped with long lasting LED illumination to provide over 20 years of use.

Head: Trinocular (split ratio: 50/50), 45° inclined; 360° rotating.

Dioptric adjustment: Both eyepieces.

Eyepieces: WF10x/21 mm, high eyepoint, secured by screw and with rubber cups.

Objective: Parfocal achromatic zoom 0.7x...4.5x (6.43:1 ratio) with anti-fungus treatment.

Working distance: 100 mm

Stand: High-grade, precision fixed with handle and focus.

Focusing: Rack and pinion focusing mechanism.

Illumination: **EcoLED™** swiveling incident and transmitted, with brightness control, rechargeable batteries. Color temperature: 6,300 K. Multi-plug 100-240Vac/5Vdc external power supply.

SLX Series - Range

SLX-4 / SLX-5

SLX-5

Binocular (SLX-4) or trinocular (SLX-5) stereomicroscope with Extremely stable, long overhanging stand for observation of particularly large specimens to be matched with a focusing system and stereozoom head. Smooth horizontal and vertical movements are ensured and the head can be easily swivelled for inspection at oblique angles. In case illumination is needed, choose from the wide choice of external illuminators available.

Head:
SLX-4: Binocular, 45° inclined; 360° rotating.
SLX-5: Trinocular (split ratio: 50/50), 45° inclined; 360° rotating.

Dioptric adjustment: Both eyepieces.

Eyepieces: WF10x/21 mm, high eyepoint, secured by screw and with rubber cups.

Objective: Parfocal achromatic zoom 0.7x...4.5x (6.43:1 ratio) with anti-fungus treatment.

Working distance: 100 mm.

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

Stand: Overhanging stand 420 mm high, 430 mm horizontal arm length, base 230x230 mm with following adjustments: heigh, longitudinal extension and head rotation angle (left-right).

SLX Series - Comparison Chart

Model	Head	Eyepieces	Objective	Working Distance	Stand	Illumination
SLX-1	Binocular 45° inclined 360° rotating	WF 10x/21	2x – 4x selectable	100 mm	High-grade, precision fixed with handle and focus	**EcoLED™** swiveling incident and transmitted with brightness control, rechargeable batteries
SLX-2	Binocular 45° inclined 360° rotating	WF 10x/21	0.7x...4.5x zoom	100 mm	High-grade, precision fixed with handle and focus	**EcoLED™** swiveling incident and transmitted with brightness control, rechargeable batteries
SLX-3	Trinocular (50/50) 45° inclined 360° rotating	WF 10x/21	0.7x...4.5x zoom	100 mm	High-grade, precision fixed with handle and focus	**EcoLED™** swiveling incident and transmitted with brightness control, rechargeable batteries
SLX-4	Binocular 45° inclined 360° rotating	WF 10x/21	0.7x...4.5x zoom	100 mm	Overhanging stand	Without illumination; External light source needed
SLX-5	Trinocular (50/50) 45° inclined 360° rotating	WF 10x/21	0.7x...4.5x zoom	100 mm	Overhanging stand	Without illumination; External light source needed

Optical performance SLX-1

Eyepiece	10x (ST-081)		15x (ST-082)		20x (ST-083)		10x (ST-084)	
Field number (mm)	21		15		10		21	
Additional lens	Total magnification	Field of View (mm)	Total magnification	Field of View (mm)	Total magnification	Field of View (mm)	Total magnification	Field of View (mm)
1x	20x - 40x	10.50 - 5.25	30x - 60x	7.50 - 3.75	40x - 80x	5.00 - 2.50	20x - 40x	10.50 - 5.25

Optical performance SLX-2 - SLX-3 - SLX-4 - SLX-5

Eyepiece	10x (ST-081)		15x (ST-082)		20x (ST-083)		10x (ST-084)	
Field number (mm)	21		15		10		21	
Additional lens	Total magnification	Field of View (mm)	Total magnification	Field of View (mm)	Total magnification	Field of View (mm)	Total magnification	Field of View (mm)
0.5x	3.5x - 22.5x	60.00 - 9.33	5.25x - 33.75x	42.86 - 6.67	7x - 45x	28.57 - 4.44	3.5x - 22.5x	60.00 - 9.33
0.75x	5,25x - 33.75x	40.00 - 6.22	7.875x - 50.625x	28.57 - 4.44	10.5x - 67.5x	19.05 - 2.96	5.25x - 33.75x	40.00 - 6.22
1x	7x - 45x	30.00 - 4.67	10.5x - 67.5x	21.43 - 3.33	14x - 90x	14.29 - 2.22	7x - 45x	30.00 - 4.67
1.5x	10.5x - 67.5x	20.00 - 3.11	15.75x - 101.25x	14.29 - 2.22	21x - 135x	9.52 - 1.48	10.5x - 67.5x	20.00 - 3.11

SLX Series - Accessories

Eyecups & Eyepieces

ST-036	Eyecups (pair), flat
ST-081	EW10x/21 eyepieces (pair), high eyepoint, with rubber cup
ST-082	WF15x/15 eyepieces (pair), high eyepoint
ST-083	WF20x/10 eyepieces (pair), high eyepoint
ST-084	WF10x/21 micrometric eyepiece, high eyepoint, with rubber cup

Additional Lenses

ST-085.1	Additional lens 0.5x (w.d. 165mm) with SZ-EXT (except for SLX-1)
ST-091	Additional lens 0.75x (w.d. 105mm) (except for SLX-1)
ST-086.1	Additional lens 1.5x (w.d. 45mm) with compensating disc (except for SLX-1)
ST-087	Additional lens 2x (w.d. 33mm) (only for SLX-4 & SLX-5)

Stages

ST-100.1	Hand moving stage, 100mm diameter
ST-110.1	Moving stage, coaxial knobs, 100mm diameter
ST-111.1	Moving stage, micrometric screws, 100mm diameter

Condensers & Filters

ST-040.1	Darkfield condenser, 100mm diameter
ST-088.1	Polarising set (filters and rotating stage), 100mm diameter

Camera Adapters

M-113.1	Ring adapter, 30mm (for monocular and binocular microscopes)
M-115	0.35x C-Mount projection lens
M-114	0.5x C-Mount projection lens
M-118	0.75x C-Mount projection lens
M-173	C-Mount projection lens for APS-C/full frame reflex cameras (trino)
M-699	Universal adapter for C-Mount projection lens (trino)
M-620	0.35x focusable C-Mount adapter
M-620.1	0.5x focusable C-Mount adapter
M-620.2	0.65x focusable C-Mount adapter
M-620.3	1x focusable C-Mount adapter

Miscellaneous

15104	Cleaning kit
DC-002	Plastic dust cover, medium, 490(l)x490(h) mm (only for SLX-1, SLX-2 and SLX-3)
DC-004	TNT dust cover, large, 700(l)x550(h) mm (only for SLX-4 & SLX-5)
M-005	Micrometric slide, 26x76mm, with 2 scales (1mm/100 & 10mm/100)
ST-041	Sample clip
ST-042	White/black object-plate, 100mm diameter
ST-043	Glass object-plate, 100mm diameter
ST-092	Protective glass for stereohead
VP-SLX	IQ/OQ/PQ manual for SLX series
AB-020	Antibacterial surface treatment, only for newly purchased microscope

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

15104 - Cleaning kit
It cleans glass quickly and effectively,
without leaving residue or odor.
Ideal for precision lens or prism cleaning.

v 6.8.0 - 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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