

2 series of stereoscopic binocular and trinocular microscopes associated to the latest Full HD cameras.



SWISSMETROLOGIE
Premium



SWISSMETROLOGIE
Silver



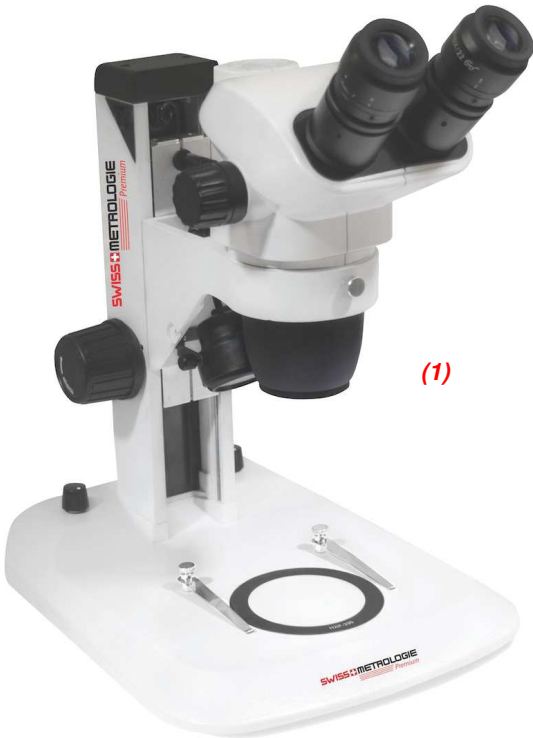
"PREMIUM" range optical features :

Auxiliary objective	0.5x	0.75x	1.0x	1.5x	2.0x
Working distance	200 mm	120 mm	100 mm	47 mm	26 mm
-					
Magnification 10x	3.4x ... 22.5x	4.7x ... 31.5x	6.7x ... 45.0x	10.1x ... 67.5x	13.4x ... 90.0x
Field of view (mm)	65.7 ... 9.8	46.9 ... 7.0	32.8 ... 4.9	21.9 ... 3.3	16.4 ... 2.4
-					
Magnification 15x	5.0x ... 33.8x	7.0x ... 47.3x	10.1x ... 67.5x	15.1x ... 101.3x	20.1x ... 135.0x
Field of view (mm)	47.8 ... 7.1	34.1 ... 5.1	23.9 ... 3.6	15.9 ... 2.4	11.9 ... 1.8
-					
Magnification 20x	6.7x ... 45.0x	9.4x ... 63.0x	13.4x ... 90.0x	20.1x ... 135.0x	26.8x ... 180.0x
Field of view (mm)	35.8 ... 5.3	25.6 ... 3.8	17.9 ... 2.7	11.9 ... 1.8	9.0 ... 1.3

"PREMIUM" series. Stereoscopic binocular and trinocular microscopes.
A new design more ergonomic - Compact and lightweight - Cleaner image in the periphery - Large coverage of magnification - Long working distance.

- Main features :
- Powerful and advanced optical system for a better rendering of stereoscopic image
 - Working distance of 104 mm, can be extended from 26 mm to 200 mm with optional lenses
 - Magnification domain from 2x to 180x using optional objectives and eyepieces.

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(1)

MSA		Type	Stand	Voltage	Kg
14.430	(1)	Binocular	Rack and pinion	110 / 220 V	5.800
14.431	(2)	Binocular	Detached	-	20.400

Stereo binocular microscope with zoom magnification variable from 0.67x to 4.5x.

Eyepieces : Pair of eyepieces WF10x/22 mm in 45° inclined tubes with dioptre adjustment.

Objective : Standard total magnifications from 6.67 to 45x. Fields of view from 33 to 4.9 mm.
Working distance 110 mm.

Stand : Rack and pinion in metal, transmitted lighting with dimmer switch (1) or detached with 2 arms (2).

MSA14.430 only : delivered with 1 stage plate and 2 object clamps.

Lighting : see pages 14-17...14-20.



(2)



(1)

MSA		Type	Stand	Voltage	Kg
14.432	(1)	Trinocular	Rack and pinion	110 / 220 V	7.180
14.433	(2)	Trinocular	Detached	-	24.600

Stereo binocular microscope with zoom magnification variable from 0.67x to 4.5x.

Eyepieces : Pair of eyepieces WF10x/22 mm in 45° inclined tubes with dioptre adjustment.

Objective : Standard total magnifications from 6.67 to 45x. Fields of view from 33 to 4.9 mm.
Working distance 110 mm.

Stand : Rack and pinion in metal, transmitted lighting with dimmer switch (1) or detached with 2 arms (2).

MSA14.432 only : delivered with 1 stage plate and 2 object clamps.

Lighting : see pages 14-17...14-20.



(2)

Accessories for "PREMIUM" stereoscopic microscopes.



MSA	Type	Kg
14.440-10	HWF 10x / 22 mm	0.188
14.440-15	HWF 15x / 16 mm	0.145
14.440-20	(1) HWF 20x / 12 mm	0.224

Pair of eyepieces.



MSA	Type
14.441	HWF 10x / 22 mm

Micrometric eyepiece.



MSA	Kg
14.442	0.006

Pair of retractable eyeshades.



MSA	Magnification	Working distance	Kg
14.443-05	0.50x	185 mm	0.094
14.443-07	(1) 0.75x	125 mm	0.109
14.443-15	1.50x	50 mm	0.120
14.443-20	2.00x	33 mm	0.130

Additional lens.



MSA
14.444

Pair of object clamps.



MSA	Type	Ø
14.445-C	(1) Transparent	94 mm
14.445-D	(2) Black / White	94 mm

Spare stage plate.



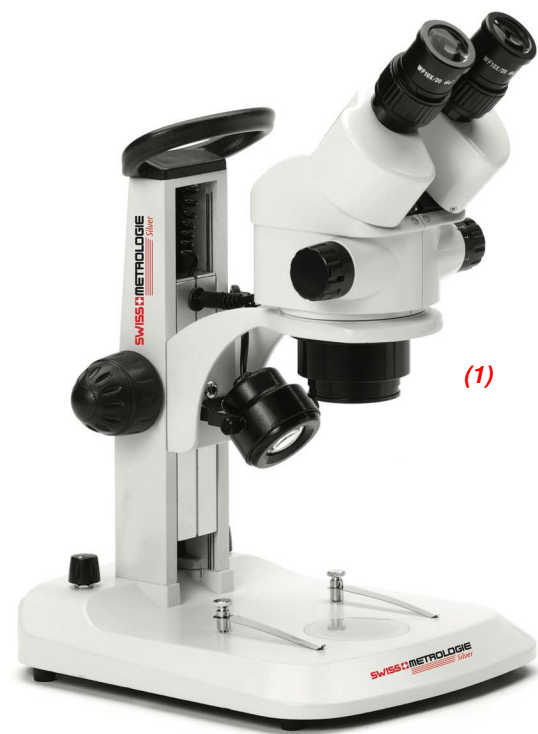
MSA
14.446

F250 V1 amp glass fuse for stereoscopic microscopes
SWISSMETROLOGIE® "PREMIUM" and "SILVER".
Set of 10 pieces.

"SILVER" series. Stereoscopic binocular microscopes for demanding professionals.
Modern design, more ergonomic - Compact and complete - Variable magnifications Zoom - 360° optical head - LED transmitted lighting.

- Main features :
- Powerful stereoscopic optical system for demanding industrial applications
 - Working distance of 100 mm, can be extended up to 170 mm with the optional lenses and the stand with detached arm
 - Magnification domain variable by zoom from 6.7x to 45x zoom and expandable up to 135x using optional lenses and eyepieces.

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Silver



MSA		Type	Stand	Voltage	Kg
14.434	(1)	Binocular	Rack and pinion	110 / 220 V	4.540
14.435	(2)	Binocular	Detached	-	15.400

Stereomicroscope with 45° binocular head and zoom objective with variable magnifications from 0.7x to 4.5x.

Eyepieces : Pair of eyepieces wide field WF10x / 20 mm, secure and delivered with eyeshades.

Head : Binocular with 45° inclined tubes, rotating at 360°. Two dioptre adjustments. Inter-pupillary distance from 55 to 75 mm.

Objective : A continuous Zoom objective with variable magnification from 0.7x to 4.5x for magnifications from 7x and 45x with fields of view from 28 to 4.4 mm.

Working distance 100 mm.
Other magnifications and working distances are possible using eyepieces WF 5x/18, WF 15x/15 or WF 20x/10 and additional lenses of 0.75x or 1.5x.

Stand : Rack and pinion in metal, large and ergonomic (1) or detached with 1 arm (2).

MSA14.434 only : delivered with transparent and black/white stage plates.
Coarse adjustment with tension setting.

Lighting : see pages 14-17...14-20.



Accessories for "SILVER" stereoscopic microscopes.



MSA	Type
14.450-10	HWF 10x / 21 mm
14.450-15	HWF 15x / 16 mm
14.450-20	HWF 20x / 12 mm

Pair of eyepieces.



MSA	Type
14.451	HWF 10x / 22 mm

Micrometric eyepiece.



MSA	Kg
14.452	0.012

Pair of ergonomic eyeshades.



MSA	Magnification	Working distance	Kg
14.453-05	0.50x	170 mm	0.109
14.453-07	0.75x	114 mm	0.109

Additional lens.



MSA
14.454

Pair of object clamps.



MSA	Type	Ø
14.445-A	Transparent	60 mm
14.445-B	Black / White	60 mm

Spare stage plate.



MSA
14.446

F250 V1 amp glass fuse for stereoscopic microscopes
SWISSMETROLOGIE® "PREMIUM" and "SILVER".
Set of 10 pieces.

Stereoscopic binocular microscopes ERGO range, ideal for combating musculoskeletal disorders (MSD).

SWISSMETROLOGIE



MSA	Magnification	Kg
14.241	5...50x	6.000
14.242	8...80x	6.000

- Stereoscopic binocular microscope.
- Compact and lightweight
 - Rack and pinion stand with fine adjustment
 - Eyepieces 10x with 2 positions (high and low) for maximum comfort
 - Ergonomic optical head, tilting from 0 to 35°
 - The working distance of 80 mm can be extended to 160 mm with optional lenses
 - Diascopic and incident LED lighting with intensity dimmer.

ERGONOMICS

Lighting : see pages 14-17...14-20.

Accessory for ERGO stereoscopic microscopes.

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MSA	Kg
14.243	0.250

Camera tube.

Stereoscopic binocular discussion microscope.

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Lighting : see pages 14-17...14-20.

MSA	Kg
14.457	?

- Dual viewing stereoscopic binocular microscopes, without lighting.
- Equipped with a variable magnification Zoom from 8x to 50x (with eyepieces WF10x/22)
 - Two binocular heads with individual adjustment of the interpupillary distance from 54 to 76 mm
 - Adjustment of dioptres : +/-5.0.
- Items included in the standard equipment :
- Cast iron large base (400 x 400 mm), rectified column length 450 mm and fine focusing drive
 - Modular design discussion tube
 - Two binocular heads with individual adjustment of the interpupillary distance and dioptre correction
 - Two pairs of eyepieces WF 10x with eyeshades
 - Indicator with adjustable luminous arrow
 - Protection cover
 - Glas plate 255 x 255 mm.