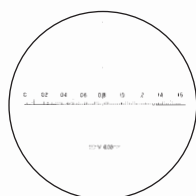


Stand microscopes 20x ... 100x

Standard and lightweight stand microscope with eyepiece with scale. The detachable illumination provides extra light which helps observations at large magnifications. Suitable for inspection of surfaces and printed matter, photographic, biological and electronic applications, and more.

- Focusing with rack-and-pinion.
- Dimensions: $\varnothing 58 \times 152$ mm.
- Weight (without batteries): 493-528 g.
- Power supply: 2 batteries 1.5 V (incl.).
- Delivery in a case.



Item No.	Magnification	Field of view \varnothing /mm	Working distance/mm	Measuring range/mm	Graduation mm	Price EUR
905.252	20x	7.2	52	6.0	0.05	
905.253	40x	4.3	28	3.4	0.02	
905.254	60x	2.2	6	1.6	0.02	
905.255	100x	1.8	5.5	1.2	0.01	
495.111	Battery					

The rack-and-pinion adjustment is 47 mm for all models.

Stand microscopes 20x ... 300x

These stand microscopes are available in four versions. All four are compact and lightweight, but are especially characterized by their large field of view. Delivery in a case, including illumination, matching standard scale and objective. The microscopes come with a Huygens eyepiece (magnification 10x) and with a detachable soft rubber eye adapter. All-purpose use with high precision.

Type 2034

A scale graduation (with a 10 mm scale range) has been engraved on the focusing ring which allows height measurements at a resolution of 0.1 mm.

- Focusing with helicoid ring.
- Dimensions: $\varnothing 63 \times 172$ mm.
- Weight (without batteries): 237 - 241 g.
- Power supply: 2 batteries 1.5 V (incl.).



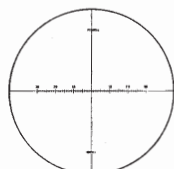
Type 2034

Item No.	Magnification	Field of view \varnothing /mm	Working distance/mm	Measuring range/mm	Graduation mm	Price EUR
905.320	20x	7.2	36	6	0.1	
905.330	40x	3.6	18.7	3	0.05	
905.340	60x	2.4	10.8	2	0.02	
905.350	100x	1.45	5.7	1.2	0.01	
905.355	150x	0.96	9.2	0.9	0.005	
905.370	200x	0.72	6.7	0.6	0.002	
905.374	300x	0.48	4	0.4	0.001	

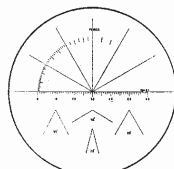
Option:
495.111 Spare battery

Individual scales

The in the eyepiece integrated scale can be changed, for example when the magnification of the microscope changes (see "Individual objectives"). Additionally, an extra eyepiece (without scale and soft rubber eye adapter) is available, so the eyepiece doesn't need to be disassembled each time the scale is being changed.



905.321



905.325

Item No.	Magnification microscope	Scale	Price EUR
Standard scales:			
905.321	20x	no. 54	
905.331	40x	no. 64	
905.341	60x	no. 74	
905.351	100x	no. 84	
905.356	150x	no. 94	
905.337	200x	no. 104	
905.388	300x	no. 114	
For inspection of printed matter and tools:			
905.325	20x	no. 55	
905.335	40x	no. 65	
904.042	Individual eyepiece		

Stand microscopes 20x ... 300x (continued)

Type 2054/2054-EIM/2054-CIL

These types primarily differ from the type 2034 in the focusing mechanism and the sturdy die-cast aluminium base.

- Focusing with rack-and-pinion.
- Dimensions: $\varnothing 69 \times 172$ mm.
- Weight (without batteries):
2054/2054-EIM: 263 - 267 g,
2054-CIL: 393 - 394 g.
- Power supply:
2054/2054-EIM: 2 batteries 1.5 V (incl.),
2054-CIL: 4 batteries 1.5 V (incl.).



NEW



Type 2054-EIM



Type 2054-CIL

Erected Image with Measure (EIM)

With standard microscopes, the magnification is upside down, but this is not the case with the microscopes of type 2054-EIM.

Individual objectives

The objectives are also separately available. This gives you the great advantage that you can get all magnifications with one scale microscope. The magnification of the eyepiece is 10x.

Item No.	Magnification objective	Magnification microscope	Price EUR
905.322	2x	20x	
905.332	4x	40x	
905.342	6x	60x	
905.352	10x	100x	
905.357	15x	150x	
905.372	20x	200x	
905.387	30x	300x	

Coaxial Incident Light (CIL)

The microscopes of type 2054-CIL are besides the standard illumination also provided with a coaxial light source, which is especially suitable for the inspection of objects with deep structures as well as chromed, high reflective surfaces.

Item No.	Magnification*	Price EUR
Type 2054:		
905.410	20x	
905.411	40x	
905.412	60x	
905.413	100x	
905.414	150x	
905.415	200x	
905.416	300x	
Type 2054-EIM:		
905.417	20x	
905.418	40x	
905.419	60x	
905.420	100x	
Type 2054-CIL:		
905.429	40x	
905.430	60x	
905.431	100x	
905.432	150x	
905.433	200x	
905.434	300x	
Option:		
495.111	Spare battery	

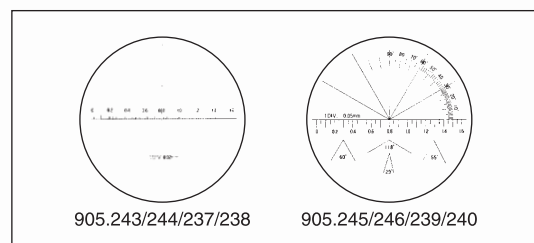
* For other specifications: see table of type 2034.

Stand microscopes 25x ... 100x

Compact and light-weight stand microscope with scale. The high resolution and bright images as well as its easy focusing make this instrument a practical measuring aid. A scale graduation (scale range 8 mm) has been engraved on the focusing ring which allows height measurements at a resolution of 0.1 mm. With detachable soft rubber eye adapter. Delivery in a case, with matching standard scale.

- Dimensions: $\varnothing 41.5 \times 122$ mm.
- Weight: 83 g.

Item No.	Type	Magnification	Price EUR
Standard scales			
905.243	24	25x	
905.244	13	50x	
905.237	34	75x	
905.238	44	100x	
Scales for inspection of printed matter and tools			
905.245	25	25x	
905.246	14	50x	
905.239	35	75x	
905.240	45	100x	



905.250

Item No.	Magnification	Field of view \varnothing /mm	Working distance/mm	Measuring range/mm	Graduation mm	Price EUR
905.249	25x	3.3	17.0	3.0	0.05	
905.250	50x	2.0	11.7	1.6	0.02	
905.251	75x	1.1	11.7	1.0	0.01	
905.258	100x	0.84	11.6	0.8	0.005	

Stereo microscope SSM

Plastic stereo microscope with a sharp erect image and a large field of view.
The magnification is 20x (eyepiece: 10x, objective: 2x).

- Field of view: $\varnothing 9.5$ mm.
- Viewing angle: 90° .
- Interpupillary distance: adjustable (55 - 75 mm).
- Working distance: 70 mm.
- Max. object height: 30 mm.
- Stage plate: white plastic, $\varnothing 50$ mm.
- Dimensions $l \times w \times h$: 135 x 120 x 230 mm.
- Weight: 0.6 kg.
- Incident light (LED).
- Delivery incl. dust cover.
- Power supply: 2 batteries 1.5 V (AA).

NEW



Item No.	Type	Magnification	Price EUR
909.012	SSM	20x	
Option:			
495.111	Spare battery (2 needed)		

Microscope SSM-1

Microscope on a column stand, with a sharp erect image and a large field of view.
The magnification is 20x (eyepiece: 10x, objective: 2x).

- Field of view: $\varnothing 9.0$ mm.
- Microscope head: 360° rotatable.
- Viewing angle: 45° .
- Working distance: 80 mm.
- Max. object height: 35 mm.
- Travel of the rack: 30 mm.
- Stage plate: black/white (two-sided), $\varnothing 60$ mm.
- Anti drop facility.
- Dimensions $l \times w \times h$: 195 x 110 x 245 mm.
- Weight: 1.2 kg.
- Delivery incl. dust cover.

NEW



Item No.	Type	Magnification	Price EUR
909.013	SSM-1	20x	

Stereo microscopes SSM-2

Stereo microscopes on a column stand, with a sharp erect image and a large field of view. The magnification is 20x (eyepiece: 10x, objective: 2x); eyepieces 5x, 15x and 20x are optionally available. See for all accessories the page "SSM stereo microscope accessories".

- Viewing angle: 45°.
- Interpupillary distance: adjustable (55 - 75 mm).
- Left eyepiece with diopter adjustment: ± 5 dp.
- Objective: with dovetail mounting.
- Stage plate: black/white (two-sided).
- Delivery incl. dust cover and soft rubber eye adapters.

Item No.	Type	Magnification	Price EUR
909.000	SSM-2A	20x	
909.001	SSM-2C	20x	

See for accessories the page "SSM stereo microscope accessories".



909.000

NEW



909.001

Type		SSM-2A	SSM-2C
Eyepiece	M	10x	10x
Objective	M	2x	2x
Total range*	M	10-40x	10-40x
Illumination		no	yes
Working distance	mm	70	70
Max. object height	mm	60	70
Travel of rack	mm	40	40
Stage plate	ø/mm	60	95
Dimensions	lxwxh/mm	220x115x250	220x115x290
Weight	kg	1.6	2.6

*The magnification range of the microscope in combination with the optional eyepieces 5-20x.

Incident illumination and backlight

Model SSM-2C is equipped with incident illumination and backlight (switchable incident illumination or backlight).

- Stage plate: opal glass. Delivery incl. black/white stage plate. Darkfield condenser optional.
- Power supply: 230 Vac (50 Hz).



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Stereo zoom microscopes SSM-3/5

Stereo zoom microscopes with a sharp erect image and a large field of view. Equipped with a double objective (2x/4x is used most; also available 1x/2x and 1x/3x), so that the magnification can be changed with a simple rotary motion. The magnification of the eyepieces is 10x (optionally 5x, 15x and 20x). See for all accessories the page "SSM stereo microscope accessories".

- SSM-3: stand with round column.
SSM-5: fixed stand.
- Microscope head: 360° rotatable (only SSM-5).
- Viewing angle: 45°.
- Interpupillary distance: adjustable (55 - 75 mm).
- Left eyepiece with diopter adjustment: ± 5 dp.
- Stage plate: black/white (two-sided).
- Delivery incl. dust cover and soft rubber eye adapters.



909.002

Incident illumination and backlight

Models SSM-3C/5CW are equipped with incident illumination and backlight (switchable incident illumination or backlight).

- Stage plate: opal glass. Delivery incl. black/white stage plate. Darkfield condenser optional.
- Power supply: 230 Vac (50 Hz).

Item No.	Type	Magnification	Price EUR
909.002	SSM-3A	20x/40x	
909.042	SSM-3A	10x/20x	
909.032	SSM-3A	10x/30x	
909.003	SSM-3C	20x/40x	
909.043	SSM-3C	10x/20x	
909.033	SSM-3C	10x/30x	
909.034	SSM-5AW	20x/40x	
909.044	SSM-5AW	10x/20x	
909.004	SSM-5AW	10x/30x	
909.005	SSM-5CW	20x/40x	
909.045	SSM-5CW	10x/20x	
909.035	SSM-5CW	10x/30x	

See for accessories the page "SSM stereo microscope accessories".



909.004

909.005

Type		SSM-3A	SSM-3C	SSM-5AW	SSM-5CW
Eyepiece	M	10x	10x	10x	10x
Objective	M	2x/4x, 1x/2x or 1x/3x			
Total range*	M	10-80x, 5-40x or 5-60x			
Illumination		no	yes	no	yes
Working distance	mm	57	57	70	70
Max. object height	mm	60	70	20	20
Travel of rack	mm	40	40	30	20
Stage plate	ø/mm	60	95	60	95
Dimensions	lxwxh/mm	220x115x250	220x115x290	220x115x280	220x115x320
Weight	kg	1.7	2.6	1.7	2.5

* The magnification range of the microscope in combination with the optional eyepieces 5-20x.



Stereo zoom microscopes with auxiliary lenses SSM-10/20

Stereo zoom microscopes with a sharp erect image and a large field of view. Equipped with a double objective (2x/4x is used most; also available 1x/2x and 1x/3x), so that the magnification can be changed with a simple rotary motion. The magnification of the eyepieces is 10x (optionally 5x, 15x and 20x). The magnification can be adjusted to your application even more with an optional auxiliary lens (0.5x, 0.75x, 1.5x or 2x). See for all accessories the page "SSM stereo microscope accessories".

- SSM-10/20C2: stand with round (flattened) column and anti drop facility.
SSM-20W: fixed stand.
- Microscope head: 360° rotatable.
- Viewing angle: 45°.
- Interpupillary distance: adjustable (55 - 75 mm).
- Left eyepiece with diopter adjustment: ± 5 dp.
- Working distance (without auxiliary lens): 72 mm.
- Stage plate: black/white (two-sided).
- Delivery incl. dust cover and soft rubber eye adapters.

Item No.	Type	Magnification	Price EUR
909.006	SSM-10	20x/40x	
909.046	SSM-10	10x/20x	
909.036	SSM-10	10x/30x	
909.007	SSM-20C2	20x/40x	
909.047	SSM-20C2	10x/20x	
909.037	SSM-20C2	10x/30x	
909.008	SSM-20W	20x/40x	
909.048	SSM-20W	10x/20x	
909.038	SSM-20W	10x/30x	

See for accessories the page "SSM stereo microscope accessories".



909.006

Incident illumination and backlight

Models SSM-20C2/20W are equipped with incident illumination and backlight. With the SSM-20C2, the luminous intensity is adjustable (switchable incident light or backlight). With the SSM-20W, incident light and backlight can be switched on at the same time.

- Stage plate: opal glass. Delivery incl. black/white stage plate. Darkfield condenser optional.
- Power supply: 230 Vac (50 Hz).

Type		SSM-10	SSM-20C2	SSM-20W
Eyepiece	M	10x	10x	10x
Objective	M	2x/4x, 1x/2x or 1x/3x		
Total range*	M	5-160x, 2½-80x or 2½-120x		
Illumination		no	yes	yes
Max. object height	mm	100	100	50
Travel of rack	mm	60	60	60
Stage plate	ø/mm	75	95	95
Dimensions	l x w x h/mm	260x170x290	270x235x330	255x145x330
Weight	kg	3.0	4.3	4.0

* The magnification range of the microscope in combination with the optional eyepieces 5-20x and auxiliary lenses 0.5-2x.



909.007

NEW



909.008

Stereo microscopes with stepless zoom SSM-E

Stereo zoom microscopes with a sharp erect image and a large field of view. The special microscope head is equipped with stepless zoom; in combination with the standard 10x eyepieces (optionally 20x) you can smoothly zoom in from 10x up to 40x magnification. The magnification can be adjusted to your application even more with an optional auxiliary lens (0.5x, 0.75x, 1.5x or 2x). See for all accessories the page "SSM stereo microscope accessories".

- SSM-EW: fixed stand. SSM-EC2/3E: stand with round (flattened) column and anti drop facility.
- Microscope head: 360° rotatable.
- Viewing angle: 45°.
- Interpupillary distance: adjustable (55 - 75 mm).
- Eyepieces with diopter adjustment: ± 5 dp.
- Working distance (without aux. lens): 85 mm.
- Equipped with incident illumination and back-light. With the SSM-EC2 the luminous intensity is adjustable (switchable incident light or back-light). With the SSM-EW/3E incident light and backlight can be switched on at the same time.
- Stage plate: opal glass.
- Delivery incl. dust cover, soft rubber eye adapters and black/white stage plate. Darkfield condenser optional.
- Power supply: 230 Vac (50 Hz).

Item No.	Type	Magnification	Price EUR
909.009	SSM-EW	10 - 40x	
909.010	SSM-EC2	10 - 40x	
909.011	SSM-3E	10 - 40x	

See for accessories the page "SSM stereo microscope accessories".



909.010

NEW



909.009



909.011

Type		SSM-EW	SSM-EC2	SSM-3E
Eyepiece	M	10x	10x	10x
Objective	M	1-4x	1-4x	1-4x
Total range*	M	5-160x	5-160x	5-160x
Illumination		yes	yes	yes
Max. object height	mm	50	110	110
Travel of rack	mm	60	60	60
Stage plate	ø/mm	95	95	95
Dimensions	l x w x h / mm	310 x 150 x 360	330 x 235 x 360	330 x 150 x 395
Weight	kg	4.5	4.8	5.1

* The magnification range of the microscope in combination with the eyepieces 10-20x (20x optional) and the optional auxiliary lenses 0.5-2x.

SSM-3E: third eye

Model SSM-3E is equipped with camera connection $\varnothing 28$ mm. See the accessories page for the total magnification range with camera.

SSM stereo microscope accessories

Item No.	Description	Price EUR
Pair of eyepieces for SSM-2/3/5/10/20:		
909.050	M=5x	
909.051	M=10x	
909.052	M=15x	
909.053	M=20x	
Pair of eyepieces for SSM-E:		
909.055	M=10x	
909.057	M=20x	
Auxiliary lenses (for SSM-10/20/E):		
909.018	M=0.5x	
909.019	M=0.75x	
909.020	M=1.5x	
909.021	M=2x	
Cameras (for SSM-3E):		
909.039	Camera 1/3" TV (PAL/NTSC)	
909.040	Camera 1/3" PC (USB)	



Pair of eyepieces



Auxiliary lenses

The magnification can be adjusted to your application even more with an optional auxiliary lens. Note: stereo microscopes with fixed stand: auxiliary lens 0.5x is not suitable, and with auxiliary lenses 1.5x and 2x focusing on the stage plate is not possible (the product needs to be positioned higher).



Soft rubber eye adapters



All stereo microscopes from the series SSM-2 and above are delivered incl. soft rubber eye adapters.

Camera 1/3" PC (USB)

For SSM-3E (909.011). For viewing and saving images.

- Resolution: 640 x 480 pixels (also applies to 909.039).
- Windows 2000/XP.
- Own magnification: 60x.
- Magnification range (incl. optional auxiliary lenses): 30 - 480x.
- Dimension: \varnothing 28 mm.

Adapting bush: \varnothing 30 mm.

NEW

Magnification objective	Microscope magnification / Field of view/mm			
	Eyepiece 5x	Eyepiece 10x	Eyepiece 15x	Eyepiece 20x
Stereo microscope SSM-2:				
2x	10x / \varnothing 10.0	20x / \varnothing 10.0	30x / \varnothing 7.5	40x / \varnothing 6.5
Stereo zoom microscope SSM-3/5:				
1x	5x / \varnothing 20.0	10x / \varnothing 20.0	15x / \varnothing 15.0	20x / \varnothing 9.5
2x	10x / \varnothing 10.0	20x / \varnothing 10.0	30x / \varnothing 7.5	40x / \varnothing 4.6
3x	15x / \varnothing 7.0	30x / \varnothing 6.7	45x / \varnothing 5.0	60x / \varnothing 3.1
4x	20x / \varnothing 5.0	40x / \varnothing 5.0	60x / \varnothing 3.7	80x / \varnothing 2.3
Stereo zoom microscope SSM-10/20 (without auxiliary lens):				
1x	5x / \varnothing 20.0	10x / \varnothing 20.0	15x / \varnothing 15.0	20x / \varnothing 10.0
2x	10x / \varnothing 10.0	20x / \varnothing 10.0	30x / \varnothing 7.5	40x / \varnothing 4.9
3x	15x / \varnothing 7.0	30x / \varnothing 7.0	45x / \varnothing 5.0	60x / \varnothing 3.2
4x	20x / \varnothing 5.0	40x / \varnothing 5.0	60x / \varnothing 3.8	80x / \varnothing 2.5

Stereo microscope with stepless zoom SSM-E (without auxiliary lens)

Magnification objective	Microscope magnification / Field of view/mm		
	Eyepiece 10x	Eyepiece 20x	Camera 60x (to TV/PC)
from 1x	10x / \varnothing 23.0	20x / \varnothing 10.5	60x / 3.7 x 2.8
to 4x	40x / \varnothing 5.5	80x / \varnothing 3.0	240x / 0.9 x 0.65

SSM stereo microscope accessories (continued)

Item No.	Description	Price EUR
Halogen optical fiber illumination:		
909.027	Light source 24V/150W	
909.030	Single flexible arm	
909.028	Dual flexible arm	
909.029	Optical fiber ring light ^{1,2}	
499.382	Spare bulb for 909.027	
Circular fluorescent lamp:		
909.024	Circular fluoresc. lamp 10W ²	
909.059	Spare bulb for 909.024	
Spare bulbs (standard illumination):		
499.377	For SSM-2/3/5	
498.157	For SSM-20W/EW, and for transmitted light SSM-20C2/EC2/3E	
499.379	For incident light SSM-20C2/EC2/3E	
438.211	Fuse F0.5A/250V	
Other options:		
909.022	Dark field condenser	
960.255	Dial indicator holder	
Aluminum carrying cases:		
909.026	For SSM-2	
909.031	For SSM-3	
909.041	For SSM-5	
909.049	For SSM-10/20	
909.054	For SSM-EW/EC2	
909.056	For SSM-3E	

¹ Delivered incl. adapter ring.

² Note: microscopes with standard provided incident light, this incident light must be removed before installing the ring light.

Dark field condenser

Suitable for all SSM stereo microscopes with backlight. The contrast of transparent objects is enhanced.

- Stage: ø 27 mm.
- Dimension: ø 94 mm.

**Halogen light source and dual flexible arm****Halogen optical fiber ring light^{1,2}**

Suitable for stereo microscopes SSM-10/20/E.
Note: not for use in combination with auxiliary lenses.

- Dimension (inside): ø 52 mm.



NEW

Circular fluorescent lamp²

Suitable for stereo microscopes SSM-3/5/10/20/E.

- Dimension (inside): ø 60 mm.

**Dial indicator holder**

Suitable for stereo microscopes with round column from the series SSM-10/20/E, for height measurements. The accuracy increases with higher magnification.

- Excl. dial indicator.
- The travel of the microscopes is 60 mm; see the dial indicators category for a suitable dial indicator with measuring range 50 or 60 mm.

