

SPECWELL monoculars with close-up lens



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SPECWELL monoculars with close-up lens (stand microscope)

In principle monoculars are field glasses with only one optical path. Due to the extraordinary quality of the lenses they are used preferably in combination with a close-up lens as a stand microscope without reversed image.



With the SPECWELL monoculars, objects can be observed at a working distance of between 220 mm and 600 mm depending on the model. When used at greater distances the field of view ranges from approx. 105 to 219 metres at a distance of 1,000 metres from the object.

The monoculars listed here are always supplied with a close-up lens with acrylic base. These can simply be screwed onto the monocular resulting in an excellent stand microscope with field of view between 4.2 mm and 10 mm and magnification factors of 12x to 45x, depending on whether the short version (KS) or long version (LS) close-up lens is used (resulting in different magnification factors). This must be specified when ordering. The image is not reversed. Both lens systems (ocular and object lens) are achromatic and always have an anti-reflection coating.

These monoculars are used, among other applications, as positioning aids in the industry. If the working distances without close-up lens are too great or the magnification not high enough, the close-up lens can be screwed into the monocular without acrylic base. This again allows fields of view, magnification factors and working distances to be achieved similar to microscopes.

Use of these monoculars in combination with the close-up lens is not limited to technical applications. Due to the high light sensitivity, true image and magnification factors, these monoculars are also preferred as vision aids. A high quality box with neck strap is included. The M-820-S and M-830-S models each have an internal scale with 0.1 and 0.005 mm divisions in the upper section and 0.2 mm divisions in the lower section of the reticle plate.

Monocular M-412 (4 x 12)



Magnification factor	4x (Monocular) Distance 220 mm = 5.5x 12x (Stand microscope, LS) 16x (Stand microscope, KS)
Focusable	Yes
Scale	No
Working distance (min.)	220 mm (Monocular) 60 mm (Stand microscope)
Field of view Monocular	Distance 1000 Metres = 219 Metres Distance 220 mm = 35 mm
Field of view with close-up lens	16 mm (Stand microscope, LS) 13 mm (Stand microscope, KS)
Dimensions	51 x 30 mm (Monocular) 135 x 45 mm (Stand microscope, LS)
Weight	56 Grams (Monocular) 89 Grams (Stand microscope)
Leather case	Included
Display	Not reversed
Lens opening	12 mm
Angle of vision	12.5°
Relative brightness	9
Pupil diameter	3 mm

Order no.	Description	Price excl. VAT.
M-412-LS	Monocular with close-up lens and long base, 12x	215.00 €
M-412-KS	Monocular with close-up lens and short base, 16x	215.00 €
Delivery:	Incl. packaging, freight charges see www.m-service.de	
Payment:	30 days, net	

Monocular M-616-W (6 x 16)



Magnification factor	6x (Monocular) Distance 260 mm = 11x 20x (Stand microscope, LS) 25x (Stand microscope, KS)
Focusable	Yes
Scale	No
Working distance (min.)	260 mm (Monocular) 60 mm (Stand microscope)
Field of view Monocular	Distance 1000 Metres = 175 Metres Distance 250 mm = 36 mm
Field of view with close-up lens	13 mm (Stand microscope, LS) 10 mm (Stand microscope, KS)
Dimensions	74 x 32 mm (Monocular) 155 x 45 mm (Stand microscope, LS)
Weight	80 Grams (Monocular) 114 Grams (Stand microscope)
Leather case	Included
Display	Not reversed
Lens opening	16 mm
Angle of vision	10°
Relative brightness	7
Pupil diameter	2.7 mm

Order no.	Description	Price excl. VAT.
M-616-W-LS	Monocular with close-up lens and long base, 20x	215.00 €
M-616-W-KS	Monocular with close-up lens and short base, 25x	215.00 €
Delivery:	Incl. packaging, freight charges see www.m-service.de	
Payment:	30 days, net	

Monocular M-820 (8 x 20)



Magnification factor	8x (Monocular) Distance 300 mm = 17.5x 25x (Stand microscope, LS) 35x (Stand microscope, KS)
Focusable	Yes
Scale	No
Working distance (min.)	300 mm (Monocular) 70 mm (Stand microscope)
Field of view Monocular	Distance 1000 Metres = 122 Metres Distance 300 mm = 25 mm
Field of view with close-up lens	9 mm (Stand microscope, LS) 7,2 mm (Stand microscope, KS)
Dimensions	91 x 32 mm (Monocular) 172 x 45 mm (Stand microscope, LS)
Weight	76 Grams (Monocular) 110 Grams (Stand microscope)
Leather case	Included
Display	Not reversed
Lens opening	20 mm
Angle of vision	7°
Relative brightness	6.2
Pupil diameter	2.5 mm

Order no.	Description	Price excl. VAT.
M-820-LS	Monocular with close-up lens and long base, 25x	215.00 €
M-820-KS	Monocular with close-up lens and short base, 35x	215.00 €
Delivery:	Incl. packaging, freight charges see www.m-service.de	
Payment:	30 days, net	

Monocular M-820-C (8 x 20)



Magnification factor	8x (Monocular) 25x (as a microscope LS) 35x (as a microscope KS)
Focusable	Yes
Scale	Yes
Special scale	Crosshairs only
Crosshair length	5 mm
Working distance (min.)	300 mm (Monocular) 70 mm (Stand microscope)
Field of view Monocular	Distance 1000 Metres = 113 Metres Distance 300 mm = 25 mm
Field of view with close-up lens	9 mm (Stand microscope, LS) 7.2 mm (Stand microscope, KS)
Dimensions	91 x 32 mm (Monocular) 172 x 45 mm (Stand microscope)
Weight	76 Grams (Monocular) 110 Grams (Stand microscope)
Leather case	Included
Display	Not reversed
Lens opening	20 mm
Angle of vision	6.5°
Relative brightness	6.2
Pupil diameter	2.5 mm

Order no.	Description	Price excl. VAT.
M-820-C-LS	Monocular with close-up lens and long stand, 25x	310.00 €
M-820-C-KS	Monocular with close-up lens and short stand, 35x	310.00 €
Delivery:	Incl. packaging, freight charges see www.m-service.de	
Payment:	30 days, net	

Monocular M-820-S (8 x 20)



Magnification factor	8x (Monocular) 8x (as a scope) 25x (as a microscope)
Focusable	Yes
Scale	Yes
Incrementation (top)	0.1 and 0.05 mm
Incrementation (bottom)	0.2 mm
Measuring length	5 mm
Working distance (min.)	300 mm (Monocular) 70 mm (Stand microscope)
Field of view Monocular	Distance 1000 Metres = 113 Metres
Field of view with close-up lens	9 mm (Stand microscope)
Dimensions	91 x 32 mm (Monocular) 172 x 45 mm (Stand microscope)
Weight	76 Grams (Monocular) 110 Grams (Stand microscope)
Leather case	Included
Display	Not reversed
Lens opening	20 mm
Angle of vision	6.5°
Relative brightness	6.2
Pupil diameter	2.5 mm

Order no.	Description	Price excl. VAT.
M-820-S	Monocular with close-up lens, 25x, with 0.1 and 0.2 mm graduation	275.00 €
Delivery:	Incl. packaging, freight charges see www.m-service.de	
Payment:	30 days, net	

Monocular M-830 (8 x 30)



Magnification factor	8x (Monocular) Distance 600 mm = 13.5x 25x (Stand microscope, LS) 40x (Stand microscope, KS)
Focusable	Yes
Scale	No
Working distance (min.)	600 mm (Monocular) 66 mm (Stand microscope)
Field of view Monocular	Distance 1000 Metres = 149 Metres Distance 600 mm = 72 mm
Field of view with close-up lens	12 mm (Stand microscope, LS) 8 mm (Stand microscope, KS)
Dimensions	130 x 42 mm (Monocular) 213 x 45 mm (Stand microscope, LS)
Weight	170 Grams (Monocular) 228 Grams (Stand microscope)
Leather case	Included
Display	Not reversed
Lens opening	30 mm
Angle of vision	8.5°
Relative brightness	14
Pupil diameter	3.75 mm

Order no.	Description	Price excl. VAT.
M-830-LS	Monocular with close-up lens and long base, 25x	250.00 €
M-830-KS	Monocular with close-up lens and short base, 40x	250.00 €
Delivery:	Incl. packaging, freight charges see www.m-service.de	
Payment:	30 days, net	

Monocular M-830-S (8 x 30)



Magnification factor	8x (Monocular) 8x (as a scope) 25x (as a microscope)
Focusable	Yes
Scale	Yes
Incrementation (top)	0.1 and 0.05 mm
Incrementation (bottom)	0.2 mm
Measuring length	5 mm
Working distance (min.)	600 mm (Monocular) 66 mm (Stand microscope)
Field of view Monocular	Distance 1000 Metres = 149 Metres Distance 600 mm = 72 mm
Field of view with close-up lens	12 mm (Stand microscope, LS)
Dimensions	130 x 42 mm (Monocular) 213 x 45 mm (Stand microscope, LS)
Weight	170 Grams (Monocular) 228 Grams (Stand microscope)
Leather case	Included
Display	Not reversed
Lens opening	30 mm
Angle of vision	8.5°
Relative brightness	14
Pupil diameter	3.75 mm

Order no.	Description	Price excl. VAT.
M-830-S	Monocular with close-up lens, 25x, with 0.1 and 0.2 mm graduation	310.00 €
Delivery:	Incl. packaging, freight charges see www.m-service.de	
Payment:	30 days, net	

Monocular M-1020 (10 x 20)



Magnification factor	10x (Monocular) Distance 400 mm = 18x 30x (Stand microscope, LS) 45x (Stand microscope, KS)
Focusable	Yes
Scale	No
Working distance (min.)	400 mm (Monocular) 66 mm (Stand microscope)
Field of view Monocular	Distance 1000 Metres = 105 Metres Distance 400 mm = 25 mm
Field of view with close-up lens	8 mm (Stand microscope, LS) 6 mm (Stand microscope, KS)
Dimensions	106 x 32 mm (Monocular) 233 x 45 mm (Stand microscope, LS)
Weight	170 Grams (Monocular) 238 Grams (Stand microscope)
Leather case	Included
Display	Not reversed
Lens opening	20 mm
Angle of vision	6°
Relative brightness	4
Pupil diameter	2 mm

Order no.	Description	Price excl. VAT.
M-1020-LS	Monocular with close-up lens and long base, 30x	220.00 €
M-1020-KS	Monocular with close-up lens and short base, 45x	220.00 €
Delivery:	Incl. packaging, freight charges see www.m-service.de	
Payment:	30 days, net	

Monocular M-1030 (10 x 30)



Magnification factor	10x (Monocular) Distance 700 mm = 15x 30x (Stand microscope, LS) 45x (Stand microscope, KS)
Focusable	Yes
Scale	No
Working distance (min.)	700 mm (Monocular) 66 mm (Stand microscope)
Field of view Monocular	Distance 1000 Metres = 105 Metres Distance 700 mm = 60 mm
Field of view with close-up lens	8 mm (Stand microscope, LS) 6,3 mm (Stand microscope, KS)
Dimensions	150 x 42 mm (Monocular) 233 x 45 mm (Stand microscope, LS)
Weight	180 Grams (Monocular) 238 Grams (Stand microscope)
Leather case	Included
Display	Not reversed
Lens opening	30 mm
Angle of vision	6°
Relative brightness	9
Pupil diameter	3 mm

Order no.	Description	Price excl. VAT.
M-1030-LS	Monocular with close-up lens and long base, 30x	260.00 €
M-1030-KS	Monocular with close-up lens and short base, 45x	260.00 €
Delivery:	Incl. packaging, freight charges see www.m-service.de	
Payment:	30 days, net	

Acrylic base for monoculars



The acrylic bases can be ordered separately as replacement parts for all versions. The close-up lens is not included. Please ensure that the order number is correct.

Order no.	Description	Height incl. thread	Price excl. VAT.
KF-M-412-LS	Acrylic base for monocular	72 mm	30.00 €
KF-M-412-KS	Acrylic base for monocular	63 mm	30.00 €
KF-M-616-W-LS	Acrylic base for monocular	72 mm	30.00 €
KF-M-616-W-KS	Acrylic base for monocular	63 mm	30.00 €
KF-M-725-LS	Acrylic base for monocular	72 mm	30.00 €
KF-M-725-KS	Acrylic base for monocular	63 mm	30.00 €
KF-M-820-LS	Acrylic base for monocular	72 mm	30.00 €
KF-M-820-KS	Acrylic base for monocular	63 mm	30.00 €
KF-M-820-S	Acrylic base for monocular	72 mm	30.00 €
KF-2027	Acrylic base for monocular	72 mm	30.00 €
KF-M-830-LS	Acrylic base for monocular	69 mm	30.00 €
KF-M-830-KS	Acrylic base for monocular	53 mm	30.00 €
KF-M-830-S	Acrylic base for monocular	69 mm	30.00 €
KF-M-1020-LS	Acrylic base for monocular	69 mm	30.00 €
KF-M-1020-KS	Acrylic base for monocular	53 mm	30.00 €
KF-M-1030-LS	Acrylic base for monocular	69 mm	30.00 €
KF-M-1030-KS	Acrylic base for monocular	53 mm	30.00 €
Delivery:	Incl. packaging, freight charges see www.m-service.de		
Payment:	30 days, net		