

Микроскопы проходящего света CARL ROTH OBS-106, OBE-112, OBE-114, SFC-100F LED, SHB 45, B3-220ASC, B3-223ASC, BA210, AE2000, ODC-895

Технические характеристики

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Microscopes



Transmitted light microscope OBS-106

Kern.

Simple microscope with clear operating elements for school and training. For translucent, thin, high-contrast and non-demanding preparations.

- Height-adjustable, focusable 1.25 Abbe condenser for optimum light concentration
- Mechanical cross table for fast working and moving of the preparation
- Mobile use possible through rechargeable batteries
- With infinitely dimmable 0.5 W LED for optimum illumination of the preparations
- Can be powered by the mains or batteries

Technical specifications:

Art. No.	HNA1.1
Type	OBS-106
Tube	Binocular
Total magnification	40x, 100x, 400x
Magnification type	Turret
Ocular magnification	Widefield 10x
Lens arrangement	4-way, tilted forwards
Lens magnification	- 4x/N.A. 0.10, W.D. 18.0 mm - 10x/N.A. 0.25, W.D. 7.0 mm - 40x/N.A. 0.65 (spring), W.D. 0.53 mm
Field of view	18 mm
Dioptr compensation	on both sides
Angular observation	30 °
Head	Can be rotated 360°
Distance between eyepieces	55–75 mm
Condenser	Focusable Abbe condenser N.A. 1.25 with aperture diaphragm
Light source	LED
Type of lighting	Transmitted light
Image focusing	Coarse and fine focus
Optics	infinity
Microscope stage	115 x 125 mm area, Coaxial x/y travel range of 75 x 18 mm
Power supply	Powered by the mains and batteries
Mains connection	100–240 V, 50/60 Hz

Delivery incl. colour filter (blue, fitted), batteries and dust cover.

Type	Art. No.	Pack Qty.	
OBS-106	HNA1.1	1 unit(s)	



Transmitted light microscope OBE series

Kern.

Fully-equipped transmitted light microscope (brightfield) for training and lab use.

- Very easy to operate, robust and sturdy
- For translucent and thin, high-contrast specimens (e.g. plant tissue, stained cells, parasites)
- With strong 3 W LED that can be infinitely dimmed to optimally illuminate the specimens

Optional accessories (please order separately):

- Dark field use for 4x to 40x lenses; to increase contrast of small, unstained structures
- 100x lens (planachromatic, spring) with water immersion

Technical specifications:

Art. No.	EYP2.1	EYP3.1
Type	OBE 112	OBE 114
Tube	Binocular	Trinocular
Total magnification	40x, 100x, 400x, 1000x	
Magnification type	Turret	
Ocular magnification	Widefield 10x	
Lenses	achromatic	
Lens arrangement	4-way, tilted forwards	
Lens magnification	- 4x/N.A. 0.10, W.D. 18.6 mm - 10x/N.A. 0.25, W.D. 6.5 mm - 40x (spring)/N.A. 0.65, W.D. 0.47 mm - 100x (spring, oil)/N.A. 1.25, W.D. 0.07 mm	
Field of view	18 mm	
Dioptr compensation	±5 dpt on the left ocular tube	
Angular observation	30 °	
Head	Can be rotated 360°	
Distance between eyepieces	50–75 mm	
Light source	LED	
Type of lighting	Transmitted light	
Image focusing	Coaxial coarse and fine focus with scale: 2 µm	
Optics	infinity	
Microscope stage	125 x 115 mm area coaxial x/y travel ranges of 50 x 70 mm	
Power supply	Mains-powered	
Mains connection	100–240 V, 50/60 Hz	

Delivery incl. eyecups and dust cover.

OBE 112 binocular

Pic.	Type	Art. No.	Pack Qty.	
(1)	OBE 112	EYP2.1	1 unit(s)	

OBE 114 trinocular

With trinocular head for mounting a microscope camera on the photo-tube using C-mount adapter. Please order C-mount adapter separately.

Pic.	Type	Art. No.	Pack Qty.	
(2)	OBE 114	EYP3.1	1 unit(s)	

Microscopes



Transmitted light microscope OBL series

Kern.

Versatile transmitted light microscope (brightfield) for translucent, low-contrast, demanding preparations (e.g. living mammal cells, bacteria, tissue).

- With simplified Köhler illumination (fixed pre-centred)
- Infinity optics for optimum image quality
- With strong, 3 W LED that can be infinitely dimmed to optimally illuminate the specimens

Optional accessories (please order separately):

- Dark field condenser to increase contrast of small, unstained structures
- 100x lens (planachromatic, spring) with water immersion

Technical specifications:

Art. No.	EYP7.1	EYP8.1
Type	OBL 127	OBL 137
Tube	Binocular	Trinocular
Total magnification	40x, 100x, 400x, 1000x	
Magnification type	Turret	
Ocular magnification	Widefield 10x	
Lens arrangement	4-way, tilted backwards	
Lens magnification	- 4x/N.A. 0.10, W.D. 12.1 mm - 10x/N.A. 0.25, W.D. 2.1 mm - 40x (spring)/N.A. 0.65, W.D. 0.58 mm - 100x (spring, oil)/N.A. 1.25, W.D. 0.19 mm	
Field of view	20 mm	
Dioptr compensation	±5 dpt on the left ocular tube	
Angular observation	30 °	
Head	can be rotated 360°	
Distance between eyepieces	50–75 mm	
Condenser	Fixed pre-centred, focusable Abbe condenser N.A. 1.25 with aperture and field diaphragm	
Köhler illumination	Yes	
Light source	LED	
Type of lighting	Transmitted light	
Image focusing	Coaxial coarse and fine focus with scale: 2 µm	
Optics	infinity	
Microscope stage	145 x 130 mm area coaxial x/y travel range 76 x 52 mm Holder for two slides	
Power supply	Mains-powered	
Mains connection	100–240 V, 50/60 Hz	

Delivery incl. colour filter (blue, fitted), eyecups and dust cover.

OBL 127 binocular

Pic.	Type	Art. No.	Pack Qty.
(1)	OBL 127	EYP7.1	1 unit(s)

OBL 137 trinocular

With trinocular head for mounting a microscope camera on the photo-tube using C-mount adapter. Please order C-mount adapter separately.

Pic.	Type	Art. No.	Pack Qty.
(2)	OBL 137	EYP8.1	1 unit(s)



Phase contrast microscope OBL series

Kern.

Sturdy phase contrast microscope for very translucent, low-contrast and demanding preparations (e.g. living mammal cells, bacteria, tissue).

- With simplified Köhler illumination (fixed pre-centred)
- Infinity optics for optimum image quality
- With powerful, continuously adjustable 20 W halogen light for optimum illumination of specimens

Optional accessories (please order separately):

- Dark field condenser to increase contrast of small, unstained structures
- 100x lens (planachromatic, spring) with water immersion

Technical specifications:

Art. No.	EYT6.1	EYT7.1
Type	OBL 145	OBL 155
Tube	Binocular	Trinocular
Total magnification	40x, 100x, 400x, 1000x	
Magnification type	Turret	
Ocular magnification	Widefield 10x	
Lenses	Brightfield: Semi-plan achromatic Phase contrast: Plan achromatic	
Lens arrangement	4-way, tilted backwards	
Lens magnification	Brightfield: - 4x/N.A. 0.10, W.D. 12.1 mm - 100x (spring, oil)/N.A. 1.25, W.D. 0.19 mm Phase contrast: - Ph 10x/N.A. 0.25, W.D. 4.64 mm - Ph 40x (spring)/N.A. 0.66, W.D. 0.65 mm	
Field of view	20 mm	
Dioptr compensation	±5 dpt on the left ocular tube	
Angular observation	30 °	
Head	Can be rotated 360°	
Distance between eyepieces	50–75 mm	
Condenser	Fixed pre-centred, focusable Abbe condenser N.A. 1.25 with aperture and field diaphragm	
Köhler illumination	Yes	
Light source	Halogen	
Image focusing	Coaxial coarse and fine focus with scale: 2 µm	
Optics	infinity	
Microscope stage	145 x 130 mm area coaxial x/y travel range 76 x 52 mm Container for two slides	
Power supply	Mains-powered	
Mains connection	100–240 V, 50/60 Hz	

Delivery incl. colour filter (blue, fitted and green), eyecups and dust cover.

OBL 145 binocular

Type	Art. No.	Pack Qty.
OBL 145	EYT6.1	1 unit(s)

OBL 155 trinocular

With trinocular head for mounting a microscope camera on the photo-tube using C-mount adapter. Please order C-mount adapter separately.

Type	Art. No.	Pack Qty.
OBL 155	EYT7.1	1 unit(s)



Microscopes



Transmitted light microscope SFC-100F LED monocular

Motic.

Robust microscope suitable for pupils and students

- With LED light (can be continuously adjusted)
- With pointer and eyepiece retainer
- Can be powered by the mains or batteries

Technical specifications:

Art. No.	ATT2.1
Type	SFC-100F LED
Tube	Monocular
Total magnification	40x, 100x, 400x
Magnification type	Turret
Ocular magnification	Widefield 10x
Lenses	achromatic
Lens arrangement	3-way, tilted forwards
Lens magnification	- 4x/N.A. 0.10 - 10x/N.A. 0.25 - 40x (spring)/N.A. 0.65
Field of view	18 mm
Angular observation	45 °
Head	Can be rotated 360°
Condenser	N.A. 0.65 with iris diaphragm and filter holder
Light source	LED
Image focusing	Coarse and fine focus
Optics	infinity
Microscope stage	120 x 110 mm, with 2 spring clamps
Power supply	Powered by the mains and batteries
Mains connection	100–240 V

Delivery incl. charger, batteries and dust cover.

Type	Art. No.	Pack Qty.	
SFC-100F LED	ATT2.1	1 unit(s)	



Transmitted light microscope SHB 45

Motic.

Rugged microscope for pupils and students. With adjustable halogen light and adaptation of light intensity.

Optional accessories (please order separately):

- Lenses for modulating the total magnification

Technical specifications:

Art. No.	Y421.1
Type	SHB 45
Tube	Binocular
Total magnification	40x, 100x, 400x – can be expanded up to 1000x
Magnification type	Turret
Ocular magnification	Widefield 10x
Lenses	achromatic
Lens arrangement	4-way, tilted forwards
Lens magnification	4x/N.A. 0.10 10x/N.A. 0.25 40x (spring)/N.A. 0.65
Field of view	18 mm
Dioptré compensation	±5 dpt on both eyepieces
Angular observation	45 °
Head	Can be rotated 360°
Condenser	N.A. 1.25 focusable with iris diaphragm and filter holder
Light source	Halogen
Image focusing	Coaxial coarse and fine focus
Optics	infinity
Microscope stage	120 x 120 mm with X-Y stage that can be fitted
Power supply	Mains-powered
Mains connection	230 V, 50 Hz

Delivery incl. blue filter, dark field diaphragm and dust cover.

Type	Art. No.	Pack Qty.	
SHB 45	Y421.1	1 unit(s)	

Microscopes



Transmitted light microscope B3 Professional series

Motic.

Brightfield microscope for analysing high-contrast, stained samples.

Optional accessories (please order separately):

- Widefield eyepieces and attachment lenses for modulating the total magnification
- Measuring eyepiece for determination and reference measurement of the preparation

Technical specifications:

Art. No.	CH56.1	CH57.1
Type	B3-220ASC	B3-223ASC
Tube	Binocular	Trinocular
Total magnification	40x, 100x, 400x, 1000x	
Magnification type	Turret	
Ocular magnification	Widefield 10x	
Lens arrangement	5x, inclined backward, with four achromatic super contrast lenses	
Lens magnification	- 4x/N.A. 0.10, W.D. 17.0 mm - 10x/N.A. 0.25, W.D. 6.4 mm - 40x (spring)/N.A. 0.65, W.D. 0.45 mm - 100x (spring, oil)/N.A. 1.25, W.D. 0.14 mm	
Field of view	20 mm	
Dioptr compensation	±5 dpt on the left ocular tube	
Angular observation	30 °	
Head	Can be rotated 360°	
Distance between eyepieces	55–75 mm	
Condenser	Focusable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder	
Köhler illumination	Yes	
Light source	Halogen	
Image focusing	Coaxial coarse and fine focus	
Optics	infinity	
Microscope stage	140 x 135 mm, height-adjustable coaxial x/y travel range of 78 x 50 mm	
Power supply	Mains-powered	
Mains connection	100–240 V, 50 Hz	

Delivery incl. colour filter set (blue, yellow, green), immersion oil and dust cover.

B3-220ASC binocular

Type	Art. No.	Pack Qty.	
B3-220ASC	CH56.1	1 unit(s)	

B3-223ASC trinocular

With trinocular head for mounting a microscope camera on the photo-tube using C-mount adapter. Please order C-mount adapter separately.

Type	Art. No.	Pack Qty.	
B3-223ASC	CH57.1	1 unit(s)	



Brightfield microscope BA210 series

Motic.

Brightfield microscope for analysing high-contrast, stained samples. Lenses supplied: 4x, 10x, 40x and 100x. With LED lighting and infinite optics for optimum image quality.

Technical specifications:

Art. No.	ATT7.1	ATT8.1
Type	BA210 LED binocular	BA210 LED trinocular
Tube	Binocular	Trinocular
Total magnification	40x, 100x, 400x, 1000x	
Magnification type	Turret	
Ocular magnification	Widefield 10x	
Lenses	plan achromatic	
Lens magnification	- 4x/N.A. 0.10, W.D. 15.9 mm - 10x/N.A. 0.25, W.D. 17.4 mm - 40x S/N.A. 0.65, W.D. 0.5 mm - 100x S-Oil/N.A. 1.25, W.D. 0.13 mm	
Field of view	20 mm	
Dioptr compensation	±5 dpt on both eyepieces	
Angular observation	30 °	
Head	can be rotated 360°	
Distance between eyepieces	55–75 mm	
Condenser	Focusable Abbe condenser N.A. 1.25 with iris diaphragm and slider slot	
Light source	LED	
Image focusing	Coarse and fine focus	
Optics	infinity	
Microscope stage	140 x 135 mm area coaxial x/y travel range of 76 x 50 mm	
Power supply	Mains-powered	
Mains connection	230 V, 50 Hz	

Delivery incl. immersion oil and dust cover.

Binocular

Pic.	Type	Art. No.	Pack Qty.	
(1)	BA210 LED binocular	ATT7.1	1 unit(s)	

Trinocular

With trinocular head for mounting a microscope camera on the photo-tube using C-mount adapter. Please order C-mount adapter separately.

Pic.	Type	Art. No.	Pack Qty.	
(2)	BA210 LED trinocular	ATT8.1	1 unit(s)	



Microscopes



Inverted microscope AE2000

Motic.

During inverse microscopy, the lenses are positioned under the benchtop. This results in a larger gap between the benchtop and condenser, allowing analysis of thicker preparations such as living cells in culture vessels/microtiter plates.

- With infinite optics for optimum image quality
- Light can be controlled with sleep mode

Optional accessories (please order separately):

- LED light

Technical specifications:

Art. No.	ATT4.1	ATT5.1
Type	AE2000	
Tube	Binocular	Trinocular
Total magnification	40x, 100x, 200x, 400x	
Magnification type	Turret	
Ocular magnification	Widefield 10x	
Lenses	Plan achromatic brightfield	
Lens arrangement	4-way, tilted sideways	
Lens magnification	Brightfield: - PL 4x/N.A. 0.10, W.D. 12.6 mm - LWD PL 40x/N.A. 0.50, W.D. 3.0 mm Phase contrast: - PL Ph 10x/N.A. 0.25, W.D. 4.1 mm - LWD PL Ph 20x/N.A. 0.30, W.D. 4.7 mm	
Field of view	20 mm	
Dioptre compensation	±5 dpt on both eyepieces	
Angular observation	45 °	
Head	Can be rotated 360°	
Distance between eyepieces	48–75 mm	
Condenser	ELWD N.A. 0.30 with (Ph1, BF) W.D. phase shifter with 72 mm condenser	
Light source	Halogen	
Image focusing	Coaxial coarse and fine focus	
Optics	infinity	
Microscope stage	200 x 239 mm area With glass/metal stage insert	
Power supply	Mains-powered	
Mains connection	100–240 V, 50 Hz	

Delivery incl. blue filter, interference filter (green), neutral filter with slider, centring telescope and dust cover.

Binocular

Pic.	Type	Art. No.	Pack Qty.
(1)	AE2000	ATT4.1	1 unit(s)

Trinocular

With trinocular head for mounting a microscope camera on the photo-tube using C-mount adapter. Please order C-mount adapter separately.

Pic.	Type	Art. No.	Pack Qty.
(2)	AE2000	ATT5.1	1 unit(s)



Protective sleeve for microscope

ROTH SELECTION. Material: Vinyl Vikem®.

Protects high-end devices and instruments against dust and liquids.

Size	Scope	Height (mm)	Art. No.	Pack Qty.
M	660 mm bottom x 460 mm top	420	XY16.1	1 unit(s)
L	820 mm bottom x 560 mm top	460	XY17.1	1 unit(s)
XL	920 mm bottom x 760 mm top	560	XY18.1	1 unit(s)



Digital USB manual microscope ODC 895

Kern.

For fast and easy pre-examination, for example of plants, insects or skin samples. Strong and effective illumination of the samples with eight LEDs arranged in a ring. Multilingual software supplied. With the streaming, photo snapshot and video functions. Supports the following operating systems: Win XP, Vista, 7, 8, 10.

Technical specifications:

Art. No.	HHN2.1
Type	ODC 895
Total magnification	10x, 200x
Working distance	60 mm
Light source	LED
Type of lighting	Incident light
Image focusing	Coarse focus
Microscope stage	150 x 80 mm
Port	USB 2.0
Number of pixels	2 (MP)
CMOS colour sensor	1/3,2"
Images per second	15–30
Power supply	via USB connection (fixed cable, length 1.4 m)

Type	Art. No.	Pack Qty.
ODC 895	HHN2.1	1 unit(s)

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