

Laboratory microscopes

High quality optics, precise mechanics - 5 years warranty







OUR LAB MICROSCOPES

Optical microscopes are universally applicable measuring instruments for producing detailed and precise object and structural images of a wide spectrum of samples. The sample sizes are mostly below of the resolution of a human eye.

Laboratory microscopes are available in different versions. The monocular, binocular and trinocular microscopes are just a small small selection.

They can be used universally for teaching, research and training as well as in the fields of biology, histology, forensics or material testing.

Our laboratory microscopes are individually configurable. It is possible to connect a camera to a trinocular microscope.

Other configurations, e.g. with special darkfield condensers, allow blood examinations according to Enderlein.



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1 Monocular-Microscope MML1200

These practical microscopes are great for kids or newcomers. Common for simple laboratory applications, excursion and examination of low-light specimens. These microscopes are very convenient to use, because they usually have a minimum of adjusting screws, so that little can go wrong during use. The single tube is ideal for the eyesight of children, who often find it difficult to look into the microscope with two eyes. Monocular microscopes are small, lightweight and can be flexibly placed anywhere. Therefore, they are ideal for teaching and training in courses. They are also frequently used to make a preliminary selection of specimens that are later to be examined in more detail with high-quality laboratory microscopes.



Monocular microscope for lab and educational use

Basic functions:

- 45° inclined viewing for ergonomic work
- 360° rotating optical head
- Sturdy metal tripod ensures high stability
- Coarse and fine adjustment facilitates precise working
- Integrated illumination
- Power supply 230 V, 50 Hz
- A wide range of accessories is available.

1.1 Technical basic data MML1200

MICROSCOPE	OPTICAL EQUIPMENT	OBJECTIVE	ILLUMINATION
MML 1200 Objective Revolver: 3-fold	• 10x wide field eyepiece	Achromatic4x/NA 0.1010x/NA 0.2540x/NA 0.65	6 V 10 W with reflector brightfield Abbe condenser NA 1.25, with iris diaphragm and filter holder

1.2 Accessories for microscope MML1200

Order number	Item
MML1116	Wide-field eyepiece 16x
MML1110	Wide-field eyepiece 10X
MML1105	• Wide-field eyepiece 5X
MML1016	Plane eyepiece 16X
MML1115	Plane eyepiece 15X
MML1017	Eyepiece with pointer 10X
MML1003	Stage micrometer
MML1002	Micrometer eyepiece 15X
MML1004	Micrometer eyepiece 10X
MML1001	Polarization feature
MML1005	Mirror



2 MBL 2000 Series - Transmitted light binocular microscope basic model

The MBL2000 microscope is robust and universally applicable and has the unmistakable classic design of the A.KRÜSS microscopes. It is a binocular microscope (basic equipment) and microscopes with two eyepieces. This makes it possible to view the sample under examination with both eyes. Some of the many uses are in schools and universities or education, for example, when biological studies are involved. In addition, the MBL 2000 is used in many areas of life science research. These certainly include studies on animals, plants, microorganisms and cell cultures, for example to study pathogens, cures or reactions to active substances. The MBL 2000 laboratory microscopes with phototube can be individually configured. For example, it is possible to connect a camera to a trinocular microscope for image and film recording. The microscope also allows to perform blood tests according to Enderlein with using a special dark field condenser.



Basic functions:

- Dioptre compensation with compensation scale
- Sturdy metal stand with graduated XY cross table with coaxial operation and height adjustment
- Coarse and fine focusing, double coaxial (0–200 μm, division 2 μm), coarse and fine focusing range: 30 mm
- Right-side coarse focussing knob with fast focus adjustment, left-sided knob with quick focus setting
- Low-voltage illumination with lighting control and removable pre-condenser
- Optional LED or halogen lighting
- Twin-lens Abbe condenser: NA 1.25, with iris diaphragm
- Pivoting filter holder
- Glass filters: blue, yellow, green

Solid all-round microscope, universally applicable

2.1 Technical basic data MBL 2000

OPTICAL HEAD	OBJECTIVE REVOLVER	OBJECTIVE (MAGNIFICATION; NA, WORKING DISTANCE)	DIMENSIONS
 Inclined optical head Symmetrical eye distance adjustment (55 – 75 mm), Diopter compensation with scale 	 Quadruple 	 Achromatic 4x 0.10 NA 17.04 mm 10x 0.25 NA 8.05 mm 40x 0.65 NA 0.32 mm 100x 1.25 NA 0.13 mm 	Length: 23 cmWidth: 19 cmHeight: 40 cm

EYEPIECES	CONDENSOR	ILLUMINATION	MICROSCOPE STAGE
• 10x	Double-lens ABBE condenser, NA 1.25, with iris diaphragm, with centering, height adjustment and swing-in filter holder	 Optional LED or halogen lamp (6 V 20 W) Cold light source for blood examination with brightness control 	• With 0.1 mm increment memory scale, left-right range of movement 74 mm, forwards - backwards 30 mm.

STAND	OPERATING VOLTAGE	FURTHER EQUIPMENT
 Made of metal with coaxial coarse/fine knob with a range of 30 mm each. The right coarse adjustment knob comes with a mobility adjustment, the left coarse adjustment knob comes with a quick focusing adjustment 	• Power source: 90-240 V. 50/60 Hz	Glass filters in blue, yellow and green



2.2 Technical data MBL 2000 models

Basic models

MICROSCOPE	SPECIAL FEATURE
MBL2000	■ Halogen lamp
MBL2000-LED	• LED-lighting

MBL2000 basic models can be upgraded with a variety of components.

Upgrades are indicated by additions to the model designations. E.g. MBL2000-T-PL-PH or MBL2000-LED-T-PL-PH.

Opportunities for further enhancements



- ${\color{blue} \bullet}$ T = Trinocular / phototube(1) tube for the connection of photo and video cameras.
 - Microscope cameras sold separately
- PL = Planachromatic objectives
- PH = Phase contrast feature⁽²⁾ for 10x, 40x and 100x and additional dark field condenser
- ^Q 20x or 40x phase contrast features are available separately. Microscope with the -PH need no special phase contrast features

Special model MBL2000 FOR BLOOD EXAMINATION

MIKROSKOPE	EQUIPMENT
MBL 2000-T-B	 Dark field condenser for blood examination Adjustable cold light source KL5125 Photo tube (1 for connection of photo and video cameras)
MBL 2000-T-B-PL	 Planachromatic objectives Dark field condenser for blood examination Adjustable cold light source KL5125 Photo tube⁽¹⁾ for attachment of photo and video cameras)



2.3 Accessories for microscopes MBL 2000 series





Order number	Item
MML1116	• Wide field eyepiece 16x
MML1110	Wide field eyepiece 10x
MML1105	• Wide field eyepiece 5x
MML1016	Planocular eyepiece 16x
MML1115	Planocular eyepiece 15x
MML1017	Pointer eyepiece 10x
MML1003	Object micrometer
MML1002	Micrometer eyepiece 15x
MML1004	Micrometer eyepiece 10x
MML2051	Polarization device
MML2010	Achromatic objective 4x
MML2011	Achromatic objective 10x
MML2012	Achromatic objective 20x
MML2014	Achromatic objective 40x
MML2013	Achromatic objective 60x
MML2017	Achromatic objective 63x
MML2015	Achromatic objective 100x
MML2020	Planachromatic objective 4x
MML2021	Planachromatic objective 10x
MML2022	Planachromatic objective 20x
MML2024	Planachromatic objective 40x
MML2027	Planachromatic objective 63x
MML2025	Planachromatic objective 100x
MML2028	Planachromatic objective 100x with iris diaphragm
MML2030	Large phase contrast feature
MML2032	20x phase contrast feature
MML2031	40x phase contrast feature
MML2052	Dark field condenser
MML2053	Dark field condenser for blood MBL2000-T-B and MBL2000-T-B-PL



3 Inverted microscope MBL 3200 with trinocular tube

This inverted microscope was specially designed for identifying and analyzing biological substances and cultures. It is used, for example, in control laboratories for drug production, food production and waste water analysis. This microscope is ideal for examining living cells in petri dishes or culture chambers. The objectives of the MBL 3200 have a large working distance, thus they are also ideal for e.g. seeing samples through the bottom of petri plates or for examining sediments. Via the photo and C-mount video adapter, it is possible to connect SLR, microscope or video cameras.



Basic functions:

- Large working distance
 - Observation in larger containers, e.g. cell culture dishes possible
 - Living cells in cell culture dishes or other, larger containers can be analyzed
 - Suitable for documentation purposes, via connection for photo and video camera

Inverted microscope for cell examination

3.1 Technical basic data MBL 3200 model

OPTICAL HEAD	OBJECTIVE REVOLVER	OBJECTIVE (MAGNIFICATION; NA, WORKING DISTANCE)
 Inclined optical head, Symmetrical eye distance adjustment (55 – 75 mm), Diopter compensation with scale. Photo tube 	• 5-fold	 Planachromatic 4x/NA 0.10 // Ø: 5.5 mm 10x/NA 0.25 // Ø: 2.2 mm 40x/NA 0.65 // Ø: 0.55 mm PH20x/NA 0.45 // Ø: 1.1 mm

EYEPIECES	CONDENSOR	ILLUMINATION	XY ACROSS TABLE
10x plane eyepieceVisual field number: 22	Dual Lens Condenser	• 6 V 30 W, adjustable	Range of movement: 118 x 80mm

STAND	OPERATING VOLTAGE	FURTHER EQUIPMENT
Made of metal with coaxial coarse/fine drive	• 90–240 V	 Iris diaphragm Filter holder, blue filter, green filter Third tube for connecting photo and video cameras Phase contrast device for 20x

3.2 Accessories for microscope MBL 3200 model

Order number	Item
MBL3220	Planachromatic objective 20x/NA 0.45 objective
MBL3260	Planachromatic objective 60x/NA 0.85 objective
MBL3240	Phase contrast device for 40x



4 MBL 3300 - Metallurgical incident light microscope

The MBL3300 is specially designed for the analysis of metallic materials and surfaces. Thanks to the integrated incident light illumination, it is suitable for quality determination and for checking metal structures. Using different filters, the microscopy image can be adjusted to individual needs. The MBL3000 is equipped with a photo tube for connecting a microscope, photo or video camera.



Basic functions:

- Incident light illumination
- Various filter options
- Connection possibility for microscope, still or video camera
- Wide range of accessories

Specialist for the examination of metallic materials

4.1 Technical basic data MBL 3300 model

OPTICAL HEAD	OBJECTIVE REVOLVER	OBJECTIVE (MAGNIFICATION; NA, WORKING DISTANCE)
 Inclined optical head, Symmetrical eye distance adjustment (55 – 75 mm), Diopter compensation with scale Photo tube 	• 3-fold	 Planachromatic 5x/NA 0.10, object field Ø: 3.6 mm 10x/NA 0.25, object field Ø: 1.8 mm 50x/NA 0.65, object field Ø: 0.36 mm

EYEPIECES	CONDENSOR	ILLUMINATION	XY ACROSS TABLE
10x plane eyepieceVisual field number: 18	 Double-lens ABBE condenser, NA 1.25, with centering and height adjustment 	Incident light6V 30W adjustable	Range of movement: 120x80 mm

STAND	OPERATING VOLTAGE	FURTHER EQUIPMENT
 Consisting of metal with a coaxial coarse/fine drive (30 mm each). With smoothness adjustment and quick focus device 	• 90–240 V	Iris diaphragmFilter holderBlue filterGreen filter (optional)

4.2 Accessories for microscope MBL 3300 model

Order number	ltem
MBL3320	Planachromatic objective 20x/NA 0.45
MBL3360	Planachromatic objective 60x/NA 0.85
MMB2314	Polarization device
MMB2310	Yellow filter
MMB2311	Green filter
MMB2312	Neutral density filter



5 MSL4000 Series

The stereo microscopes of the MSL4000 series offer an optimal value for money. Thanks to the wide range of accessories and different eyepieces, they are suitable for a wide range of applications. All microscopes have a 45° inclined view, interpupillary distance adjustment and dioptric compensation. The metal housing is stable and durable. To allow you the option for working anywhere without having to depend on any external power supply, the MSL microscopes have a battery providing a user-friendly 25 hours of power.



Basic functions:

- Increased working distance
- Incident and transmitted light (depending on equipment)
- Diopter range adjustable on either eyepiece
- A wide range of accessories is available for all models.
- Integrated battery

Stereo microscope for standard examinations

5.1 Technical basic data MSL4000 series

MICROSCOPE	OPTICAL EQUIPMENT	OBJECTIVE	ILLUMINATION
MSL4000-10/30-IL-TL	• 10x Wide field eyepieces	■ 1x and 3x Objective	LED- Incident and transmitted light
MSL4000-20/40-IL-TL	■ 10x Wide field eyepieces	• 2x and 4x Objective	LED- Incident and transmitted light

5.2 Accessories for microscopes MSL4000 series

Order number	ltem
MSL4331	Pair of wide field eyepieces 15x
MSL4332	Pair of wide field eyepieces 20x
MSL4333	Pair of wide field eyepieces 10x
MSL4334	Pair of eyepieces 5x
MSZ5419	Dark field



6 MSZ5000 Series

A sturdy zoom stereo microscope for the professional examination of electronic, precision mechanical, plastic and medical products. It is an excellent quality control instrument for inspection, assembly, analysis, during soldering and polishing and for fine machining. The large zoom range, long working distance and broad depth of field facilitates allow very comfortable work in many areas. It offers continuously variable magnification with 7–45x total zoom. The rugged metal housing makes it easier to work with reliability, even in harsh environments. Accessories available: various eyepieces and auxiliary lenses to modify the magnification and working distances.



Basic functions:

- Increased working distance
- Incident and transmitted light (depending on configuration)
- Available with LED illumination
- Zoom feature for continuous magnification settings from 7 to 45x
 - Optional auxiliary lenses available for maximum magnification
- Connection possibility for microscope , photo or video camera
- Wide range of accessories

Stereo microscope for advanced examinations

6.1 Technical basic data MSZ 500 series

MICROSCOPE	OPTICAL EQUIPMENT	EQUIPMENTAL
MSZ5000	10x wide field eyepieces0.7-4.5x zoom objective7-45x total magnification	
MSZ5000-T	10x wide field eyepieces0.7-4.5x zoom objective7-45x total magnification	Photo tube for the connection of photo and video cameras
MSZ5000-RL	 10x wide field eyepieces 0.7-4.5x zoom objective 7-45x total magnification 	• Incident light (LED ring lamp)
MSZ5000-T-RL	 10x wide field eyepieces 0.7-4.5x zoom objective 7-45x total magnification 	 Incident light (LED ring lamp)) Photo tube for the connection of photo and video cameras
MSZ5000-S	 10x wide field eyepieces 0.7-4.5x zoom objective 7-45x total magnification 	Large swiveling stand



6.2 Technical basic data MSZ 500 series

MICROSCOPE	OPTICAL EQUIPMENT	EQUIPMENTAL
MSZ5000-T-S	10x wide field eyepieces0.7-4.5x zoom objective7-45x total magnification	 Photo tube for the connection of photo and video cameras Large swiveling stand
MSZ5000-S-RL	 10x wide field eyepieces 0.7-4.5x zoom objective 7-45x total magnification 	Incident light (LED ring lamp)Large swiveling stand
MSZ5000-T-S-RL	 10x wide field eyepieces 0.7-4.5x zoom objective 7-45x total magnification 	 Incident light Photo tube for the connection of photo and video cameras Large swiveling stand
MSZ5000-IL-TL	10x wide field eyepieces0.7-4.5x zoom objective7-45x total magnification	12 V 15 W Incident and transmitted light (halogen) infinitely variable
MSZ5000-IL-TL-LED	 10x wide field eyepieces 0.7-4.5x zoom objective 7-45x total magnification 	A Incident and transmitted light (LED) infinitely variable
MSZ5000-T-IL-TL	10x wide field eyepieces0.7-4.5x zoom objective7-45x total magnification	 12 V 15 W incident and transmitted light (halogen) infinitely variable Photo tube for the connection of photo and video cameras
MSZ5000-T-IL-TL-LED	10x wide field eyepieces0.7-4.5x zoom objective7-45x total magnification	 Incident and transmitted light (LED) infinitely variable Photo tube for the connection of photo and video cameras

6.3 Accessories for microscopes MSZ 5000 series

Order number	Item
MSZ5419	Darkfield
MSZ5405-N	Auxiliary lens 0.5x
MSZ5418-N	Auxiliary lens 2x
MSZ5019-N	Halogen lamp for incident light, 12V 10W
MSZ5010-N	Eyepiece 10x
MSZ5008-N	Halogen lamp for transmitted light, 12 V 10 W
MSZ5415	Object micrometer
MSZ5416-N	Micrometer eyepiece 10x
MSZ5417-N	Micrometer eyepiece 20x
MSZ5420-N	Pair of eyepieces 20x
MSZ5020-N	Incident light illumination
MSZ5050	Large swiveling stand
LDR72	LED daylight ring lamp



7 Microscope illumination

Illumination is indispensable for observing objects. In simple terms, there are two types of illumination: transmitted light illumination and incident light illumination.

In transmitted light illumination, the light source and observation optics are located on different sides of the object. As a result, the light passes through the object or specimen.

With incident light illumination, the object is illuminated from the side on which the observation optics are also located. This allows examination of objects that are not translucent.

Light sources

A wide variety of light sources are used for microscopy. Usually, halogen lamps or LEDs are used. In simple microscopes, ambient light can also be focused by means of a mirror. Freely positionable illumination, such as ring lights or cold light sources, can provide additional illumination from the side.

7.1 Halogen lamp



Eine bei der Durchlichtmikroskopie häufig genutzt Lichtquelle ist eine Halogenlampe. Diese ist preisgünstig und bietet abhängig von der Leistung eine hohe Lichtausbeute. Mittels Dimmer kann die für das Objektiv passende Lichtstärke eingestellt werden. Für die meisten Anwendungen ist eine Halogen-Beleuchtung ausreichend.

7.2 LED illumination



E A frequently used light source for transmitted light microscopy is a halogen lamp. This is economical and offers a high luminous efficacy regardless of power. A dimmer can be used to adjust the light intensity to match with the objective. Halogen illumination is sufficient for most applications.

7.3 Goosenecks illumination



The illumination by means of movable goosenecks is used to illuminate the spots of an object with pinpoint accuracy. By using two-armed gooseneck illuminators, shadows can be avoided and the area is illuminated evenly. Another advantage, due to the free positioning of the goosenecks, illumination is possible at all angles. Usually, the light source is a halogen lamp, whereby practically no infrared radiation is transmitted through the light conduction. For this reason, this light source is called a cold light source and is particularly suitable for heat-sensitive objects or specimens.



Detailed in-depth and high-resolution image capture



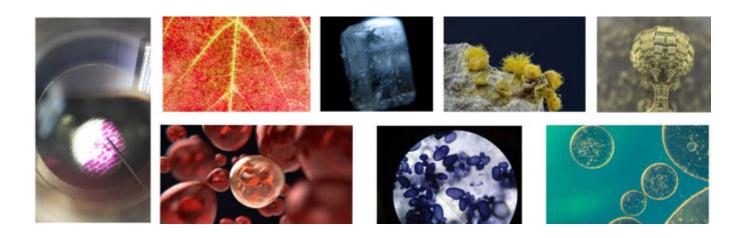
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8 Microscope camera Pulse5

Due to the standardized USB 3.0 interface, including USB3 Vision Standard, and the C-mount thread, the Pulse5 microscope camera can be connected to all commercially available microscopes, macroscopes, endoscopes and objectives. The Pulse5 also offers backward compatibility to USB 2.0, and intuitive software ensures optimal camera control and image capture in no time. It enables image processing and analysis of the highest quality.



Basis function:

- 5.0 megapixel camera with 1/2 " CMOS sensor
- 2592 x 1944 pixels resolution
- Connection via USB 3.0 or USB 2.0 possible
- Camera adapter with C-mount thread
- Live image, image recording and video function
- Inclusive Basler microscopy software
- The set includes the C-mount adapter

Create microscope photos easily with optimal quality. Ideal for documentation and image processing

9 Microscope camera Ace12

The Ace12 microscope camera enables high-resolution observations and measurements in the live image. Equipped with a 1/1.7" CMOS sensor and 12 megapixels, it displays images with high accuracy in the included PC software. In addition, with the appropriate software, it is well suited for measuring the microscopic areas as well as for saving images and videos. Thanks to the standardized USB 3.0 interface, inclusive USB3 Vision Standard, and the C-mount thread, this microscope camera can be connected to all commercially available microscopes, macroscopes, endoscopes and lenses.



Basis function:

- Resolution of 4024 x 3036 pixels
- 12.2 megapixel camera with 1 / 1.7 "CMOS sensor
- USB 3.0 interface
- Camera adapter with C-mount thread
- Live image, image recording and video function
- Inclusive Basler microscopy software
- The set includes the C-mount adapter

The camera can be easily connected to almost all commercially available microscopes.

9.1 Basler Microscopy Software

The software is the ideal solution for monitoring, documentation and archiving in the field of education, research, industry and operation of technical facilities. Many advanced software functions ensure that even more demanding microscopy applications in life science, materials science, biomedical or industrial research are easy to perform with camera and software. Single shots and videos are possible as well as time-lapse recordings, which are important for fast moving objects such as biological samples.



Areas of application:

- Live image, image recording and video function
- Adjustment of hue, saturation, brightness, contrast, gamma and gain
- Calibration, measurement and annotations
- Compensation of lighting conditions by focus enhancement and automatic/manual

exposure

- Support of zoom levels for stereomicroscopes
- High-speed videos for slow-motion evaluation Auswertung

Software for Basler camera Ace12 and Pulse5



10 Microscope camera MKTV5 - Microscopy on the monitor

Regardless of whether it is a monitor, television, projector, tablet or smartphone, via the HDMI and WiFi interfaces of the MKTV5 microscope camera, the image can be easily and safely transmitted to the desired display. The software integrated on the camera and a USB mouse that can be connected offer the option of editing the live image. It is also possible to create image and video files and save them directly on an SD card. A PC is not necessary for all of this.

The camera can be connected to a PC using the PC software included in the scope of delivery, and it can also be connected to a smartphone or tablet using the app. Thanks to the standardized USB 2.0 Hi-Speed interface and the C-mount thread, the MKTV5 microscope camera can be connected to all commercially available microscopes, macroscopes, endoscopes and lenses.



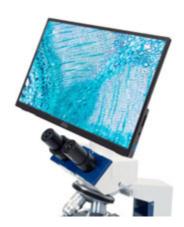
Basic functions:

- 5.0 megapixel camera with 1 / 1.8 "CMOS sensor
- Resolution of 2592 x 1944 pixels
- USB 2.0 Hi-Speed interface
- HDMI interface (HDMI cable included)
- USB interface for USB mouse or WiFi adapter (both included)
- Live image, image recording and video function
- Integrated software & additional PC software
- Storage of image and video files on SD card, included
- The set includes the C-mount adapter

High-quality camera, which uncomplicatedly produces perfect microscope photo

10.1 KTV5-Display - Microscopy on the monitor

With the MKTV5 display, we also offer a full HD display that can be connected and attached to the MKTV5. Thus, the display is mounted directly on the camera in a space-saving way.



Basic functions:

- 11.8 " 1080p IPS LC display
- Resolution of 1920 x 1080 pixels
- HDMI interface for connection to MKTV5

Areas of application:

- Live image of a connected video source via HDMI
- High-speed digital visualization of the microscope image
- Stand for a flexible or stand-alone use

Full HD display for connection to the MKTV5



11 Connection of digital cameras

We offer various adapters for connecting digital cameras to the microscopes. The universal camera mount UH80 is mounted directly in the phototube of the microscope in combination with a wide-field eyepiece.

Via the adapter UH80 with its 1/4" UNC thread, any digital compact camera can be connected with the appropriate tripod thread. To connect digital cameras with a T2 connection, the T2 photo adapter can be used. This is mounted directly in the photo tube and includes the matching eyepiece optics.



Basic function:

- Possibility to connect digital cameras
- Can be mounted directly in the phototube of the microscope
- A combination of UH80 and 5x wide field eyepiece (MML1105) for compact camera connection
- Connection to UH80 via 1/4" UNC thread (tripod thread)
- Photo adapter T2 (MML2042) for connecting digital cameras with T2 connection-Anschluß

Digital cameras can be connected directly via suitable adapters.

11.1 Accessories for connecting digital cameras

Order number	Item
UH80	Universal Camera Mount
MML1105	Wide Field Eyepiece 5x
CANON	Canon digital camera
MML2042	Photo adapter T2

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