

Checklist for your compound microscope - your requirements

1)	Which kind of microscope	do vou need?	
.,	The state of the s	y	Pages to be filled out:
	Compound microscope: Stereo microscope Phase contrast microscope Fluorescence microscope Polarisation microscope Metallurgical microscope Inverted microscope	(primarily used for transparent/translucent preparation) (surface observation with 3-dimensional optic with slow/medium magnification) (Preparations with minimal contrast / very translucent) (fluorescent structures, which are specific coloured or auto coloured) (Preparations with refraction (anisotropic). for example Crystal (surface observation of components, materials and minerals) (used primarily for culture fessel from cell culture / for very thick preparation)	(Page: 1 - 3) (Page: 4 - 6) (Page: 1 - 3) (Page: 1 - 3) (Page: 1 - 3) (Page: 1 - 3) (Page: 1 - 3)
	te your intended use/ cribe your application:		
	te your previous model/manufactur available)	er:	
Stat	te your min. and max. magnification	n:	
2)	What type of eyepiece tub	e do you need for your application?	
	Monocular eyepiece tube Binocular eyepiece tube Trinocular eyepiece tube Digital eyepiece tube	(view with one eye = 1 eyepiece available) (view with both eyes = 2 eyepieces available) (view with both eyes + additional option to adapt a camera) (view with both eyes + integrated camera)	
Atte	ention: look also at point 20) Do you	u need a camera?	
Add	litional comments:		
3)	Which illumination do you	need for your application?	
	Halogen transmitted illumination LED transmitted illumination Halogen reflecting illumination LED incident illumination External illumination	(very good illumination/also suitable for dark field and phase contrast) (extremely long life time / no heat generation) (additional illumination, e.g. for Polarisation and metallurgical microscopes) (only for stereo microscopes) (external illumination could be ordered additionally, for example ring illumination (cold light source), as Accessories)	unit, swan neck
Not	e:		
	→ The LED illumination have a	andard in light microscopy, because they have a better brightness. much longer life time and the advantage that there is no heat generation. For to microscopes as standard illumination.	his reason, we use
Add	litional comments:		



4)	Do you need Köhler illumination?					
	no fixed, pre-centred Köhler illumination full Köhler illumination		(condenser is centred, can be height-adjusted and focussed, field diaphragm / aperture diaphragm available. condenser can be fully centred and focussed, field diaphragm / aperture diaphragm available.		
Add	litional comments:					
_						
5)	How many obje	ectives wo	uld you like to use	?		
	3 objectives 4 objectives 5 objectives		(quadruple objective (quadruple objective (quintuple objective			
6)	What magnifica	What magnification (objectives) do you need?				
	4x objective 20x objective 40x objective 60x objective 100x objective	= = = =	40x magnification 200x magnification 400x magnification 600x magnification 1000x magnification	(when using the 10x magnification eyepiece) (when using the 10x magnification eyepiece) (when using the 10x magnification eyepiece)		
Not Mag		bjective mag	nification x eyepiece ma	agnification = Total magnification		
Stat	e the magnification y	ou require:				
Add	litional phase contras	t objective:				
7)	What quality do you need for the objective?					
Plan achromatic (DIN standard Infinity E-Plan / Semi Plan (infinitely corre						
Add	litional comments:					



8)	What eyepiece diameter (visual field) and what eyepiece magnification do you need?		
	10x magnification:	Dioptre adjustment:	
	Ø 18 mm Ø 18 mm with pointer needle Ø 18 mm with 0.1 mm scale Ø 20 mm Ø 20 mm with 0.1 mm scale	Yes, on one side Yes, on both sides No	
	ther magnifications possible: ate the magnification you require:)		
9)	Do you need a camera to save the docu	uments?	
	yes no		
Not Wit	e: h a trinocular microscope, you always have to use a	a C-mount adapter to adapt a camera!	
	itional comments: mber of mpx:)		
10)) Do you need any further functions?		
	Dark field unit Polarisation unit Fluorescent unit Phase-contrast unit Colour filter Additional objectives		
Add	litional comments:		
Stat	tement of phase contrast magnification:		
Stat	tement Fluorescence-channel (colour UV/V/B/G):		
11)) Further technical characteristics:		
Stat	re your requirements:		

_ 3



Attachment 2 / Technical requirements of stereo microscope

12) What type of eyepiece tube do you need for your application?				
Binocular eyepiece tube Trinocular eyepiece tub		h eyes, two eyepieces) h eyes and additional option to adapt a camera)		
Attention: look also at point	20) Do you need a camera	a?		
Additional comments:				
13) Please select the r	equired optical syste	em?		
Greenough Parallel /ABBE		completely separate from each other) completely separate from each other which run parallel)		
Additional comments:				
14) Which illumination	n do you need for you	ur application?		
None Incident illumination Transmitted illumination Coaxial illumination External illumination	(incident illumi n (additional illu (integrated coa (external illum	cope without illumination) ination e.g. LED or halogen) mination for translucent samples) axial illumination for selective depth of focus) ination could be ordered additionally, for example ring illumination unit, swan neck rce), as Accessories)		
Additional comments:				
15) What type of mag	nification do you nee	ed?		
Rotation objective Zoom	(changing the (continuous m	magnification by rotating the objective) agnification)		
Additional comments:				



16) What magnification do you need?		
Minimum:	Maximum:	
Additional comments:		
Note: Magnification formula: Eyepiece magnification x object	tive magnification (zoom) = Total magnification	
17) What eyepiece diameter (visual field) of	do you need?	
10x magnification:	Dioptre adjustment:	
Ø 20 mm Ø 22 mm Ø 23 mm	Yes, on one side Yes, on both sides	
Further magnifications possible: (State the magnification you require:)		
18) What working distance do you need?		
Minimum:mm	Maximum:mm	
Additional comments:		
Note: The working distance is the distance between the obje	ective and the sample.	
19) What size of field of view do you need?	?	
Minimum:mm	Maximum:mm	
Additional comments:		
Note: The field of view is the section which is shown through reduced. By magnifying and focussing a specific section	th the magnification. If the magnification (Zoom) is very high, the field of view will be on, it is not possible to capture the whole sample.	



20) Do you need a camera to save the documents?		
yes		
no		
Note: With a trinocular microscope, you always have to us	se a C-mount adapter to adapt a camera!	
Additional comments: (Number of mpx:)		
21) Do you need any further functions?		
21, 20 you need any further furthers.		
Dark field unit Stand inlays (preparation-background) (e.g Universal stand Mechanical bench	g. glass, opaque glass, black, white)	
Additional comments:		
22) Further technical characteristics:		
State your requirements:		
23) Please fill in your contact, that we contact	could make you an offer for a suitable microscope	
Customer number:		
Company:		
Surname, first name:		
Street:		
Postcode / Area:		
Country:		
Tel.:		
Fax:		
E-mail:		

Please send the completed checklist with your requirements to:

optics@kern-sohn.com

Please click here