



Checklist for your compound microscope - your requirements

1)	Which kind of microscope	do you need?	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)		
	e your intended use/ cribe your application:				
	e your previous model/manufacture vailable)	er:			
Stat	e your min. and max. magnificatior	n:			
2)	What type of eyepiece tube Monocular eyepiece tube Binocular eyepiece tube Trinocular eyepiece tube Digital eyepiece tube	e do you need for your application? (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)			
	ention: look also at point 20) Do you				
Add	itional 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		
Note	e:				
	 → Halogen bulbs are still the standard in light microscopy, because they have a better brightness. → The LED illumination have a much longer life time and the advantage that there is no heat generation. For this reason, we use LED illumination in our stereo microscopes as standard illumination. 				
Add	itional comments:				



Additional comments:



4)	Do you need Köhler illumination?					
	no fixed, pre-centred Köhle full Köhler illumination	er illumination	aperture d	is centred, can be height-adjusted and focussed, field diaphragm / iaphragm available. can be fully centred and focussed, field diaphragm / aperture available.		
Additional comments:						
		_				
5)	How many objecti	ves would you like to	use?			
	3 objectives 4 objectives 5 objectives	(quadruple objec (quadruple objec (quintuple objec	ctive revolver)	with 3 objectives)		
6)	What magnification (objectives) do you need?					
	4x objective 20x objective 40x objective 60x objective 100x objective	= 40x magnifica = 200x magnifica = 400x magnifica = 600x magnifica = 1000x magnifica	ation (ation (ation ((when using the 10x magnification eyepiece)		
Not Mag		tive magnification x eyepiec	e magnification	n = Total magnification		
Sta	te the magnification you	require:				
Adc	litional phase contrast ob	jective: —				
		_				
7)	What quality do you need for the objective?					
	Achromatic Plan achromatic Infinity E-Plan / Semi P Achromatic Infinity Plan		bjectives) ted objectives	for professional methods) for professional methods)		





What eyepiece diameter (visual field) and what eyepiece magnification do you need? 10x magnification: Dioptre adjustment: Ø 18 mm Yes, on one side Ø 18 mm with pointer needle Yes, on both sides Ø 18 mm with 0.1 mm scale Ø 20 mm Ø 20 mm with 0.1 mm scale Further magnifications possible: (State the magnification you require:) 9) Do you need a camera to save the documents? yes no Note: With a trinocular microscope, you always have to use a C-mount adapter to adapt a camera! Additional comments: (Number of mpx:) 10) Do you need any further functions? Dark field unit Polarisation unit Fluorescent unit Phase-contrast unit Colour filter Additional objectives Additional comments: Statement of phase contrast magnification: Statement Fluorescence-channel (colour UV/V/B/G): 11) Further technical characteristics: State your requirements:

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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				
Attention: look also at point				
Additional comments:	Loy Do you need a damera.			
Additional comments.				
13) Please select the r	equired optical system?			
Greenough Parallel /ABBE	(beam paths which are completely separate from each other) (beam paths which are completely separate from each other which run parallel)			
Additional comments:				
14) Which illumination	do you need for your application?			
None Incident illumination Transmitted illumination Coaxial illumination External illumination	(stereo microscope without illumination) (incident illumination e.g. LED or halogen) (additional illumination for translucent samples) (integrated coaxial illumination for selective depth of focus) (external illumination could be ordered additionally, for example ring illumination unit, swan neck (cold light source), as Accessories)			
Additional comments:				
15) What type of mag	nification do you need?			
Rotation objective Zoom	(changing the magnification by rotating the objective) (continuous magnification)			
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)	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 throug reduced. By magnifying and focussing a specific section	th the magnification. If the magnification (Zoom) is very high, the field of view will be no, it is not possible to capture the whole sample.			





20) Do you need a camera to save the documents? yes no With a trinocular microscope, you always have to use a C-mount adapter to adapt a camera! Additional comments: (Number of mpx:) 21) Do you need any further functions? Dark field unit Stand inlays (preparation-background) (e.g. glass, opaque glass, black, white) Universal stand Mechanical bench Additional comments: 22) Further technical characteristics: State your requirements: 23) Please fill in your contact, that we 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:

info@lotric.si

Please click here