



Mikroskop Technik Rathenow

Small microscope KMC



for kids, school, studies & education

Short manual

Introduction

The dimension, in which the insect is shown, fills us with amazement, after which the keen search for new objects begins. A new world, colourful, bizarre and mysterious, unfolds before our eyes. Already we are activated by the urge to explore and to dive into a world of small mysteries, which can only be made visible under a microscope.

The small microscope KMC is a light transportable, compact transmitted light microscope with a top of the range optical performance. It is easy to operate and allows pupils and interested nature lovers to work independently with a microscope for the first time.

Brief instruction

The success of microscopy depends not only from the optical and mechanical quality of the microscope itself, also the user has to be firm in examining objects under the microscope. The right illumination and the real adjust of the sharpness are required for an optimal use of the KMC.

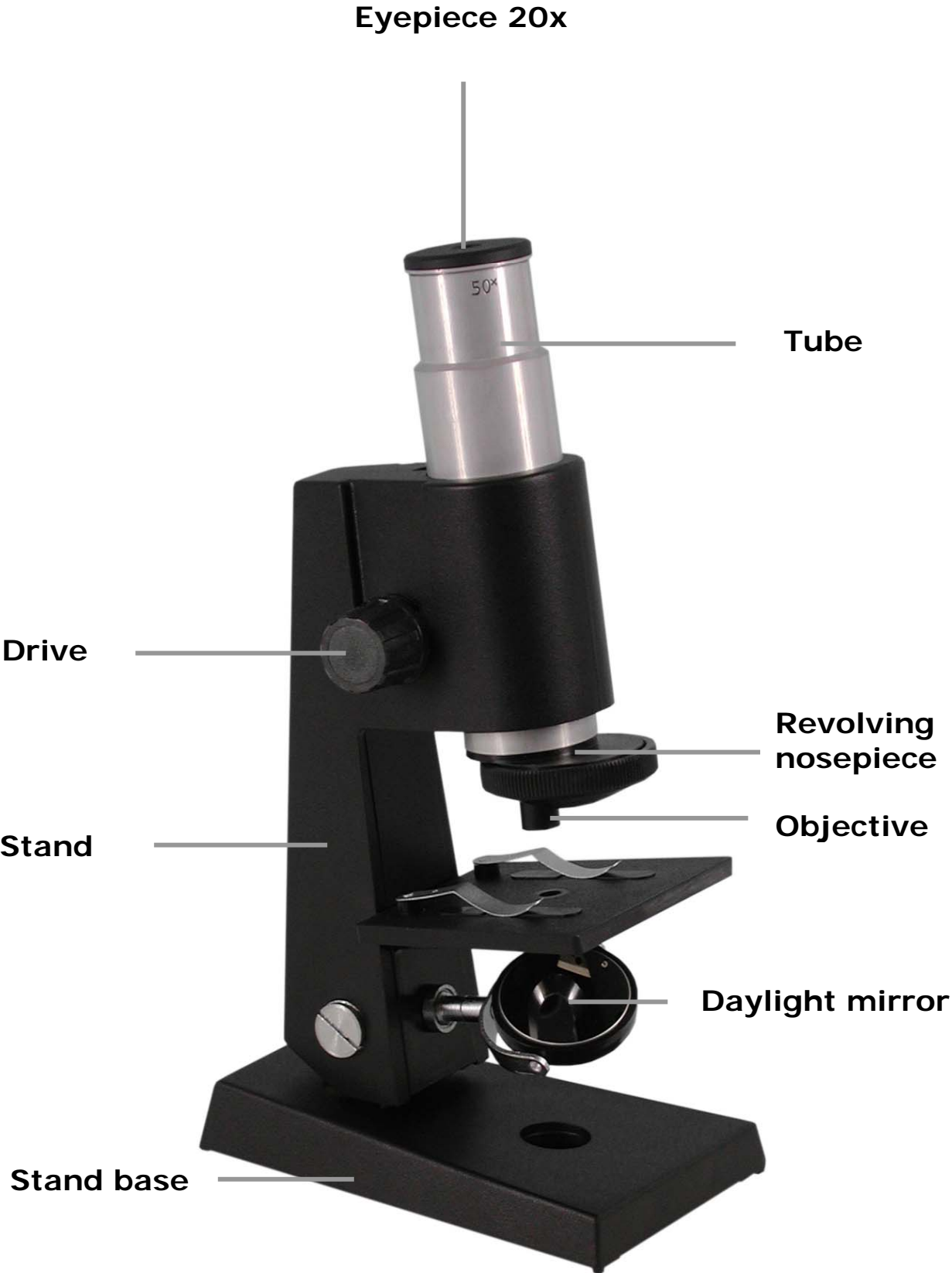
The microscope has to be removed from its package. All optical parts like the objectives and the mirror should be checked if there is some dust on it. In case there is some dust, you have to clean the parts before you can use the microscope.

The Small microscope KMC should be placed near a window. The stand has to be well- disposed to the user. The mirror will be moved now to the light source. Please avoid a direct solar irradiation to avoid a blinding. The viewing field should be illuminated constant. Now the object can be clamped under the stage clips.

The revolving nosepiece has to be rotated to get the favoured magnification. In this way the right objectives will be turned into the light beam. You can adjust the magnification itself by pulling the tube. There will be shown some marks on the tube to see the magnification you have adjusted.

The sharpness of the object can be adjusted by moving the drive knob.

Overview



Technical Data

Microscope data:	Tube length	max. 70mm
	Diameter eyepiece	23,2
	Swivel range of stand	30°
	Pivoting Aperture diaphragm	

Objective: Image scale Objective I 2,5 : 1 bis 5 : 1
Image scale Objective I and II 6,3 : 1 bis 11,3 : 1
(it depends from the length of the tube))

Eyepiece:	$V_{\text{(Eyepiece)}}$	Diameter field of view	
		(mm)	apparently (mm)
	20x	9	180

Magnifications:	Objective	I	I und II
		20x	
	Microscope	50-100x	125-225x

Drive:	Range of drive	app. 25mm
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Illumination: Daylight mirror Ø30mm

Dimensions: 75x 115x 190x

Weight: 0,5 kg

Maintenance

The Small microscope KMC and its supplemental equipment are service-free over a long period of time, assuming normal use.

Keep the instrument in dry and cool place, and keep away from acid or alkali. Put a dust cover over the instrument when it is not used.

Keep lenses clear, and wipe the lenses with soft brush if there is dust or dirt on it.

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