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**B-100**

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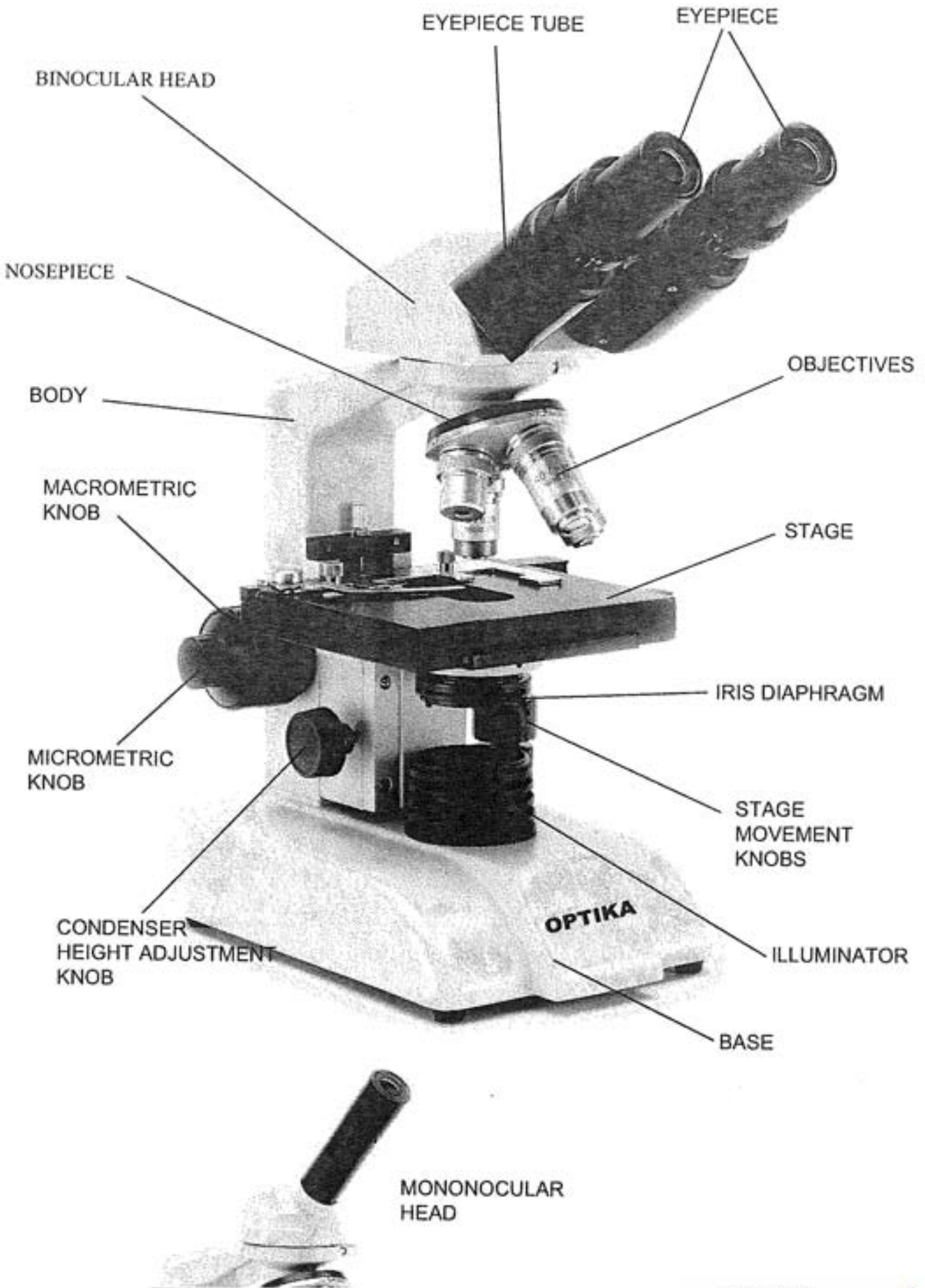
zu beziehen bei

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# DESCRIPTION

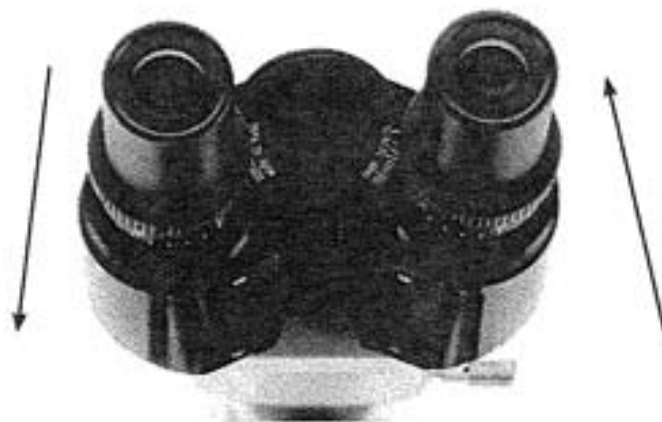


Several components of the microscope are separately packed, in order to prevent the microscope to be damaged during transportation.

- 1- Open the Styrofoam box. Take the stand of the microscope out of the box and put it on a flat surface.
- 2- Take out the head and put it on the stand. Fix the head by using the screw on the right.
- 3- Insert the eyepieces into the tubes.
- 4- Remove the caps from the nosepiece and insert the objectives in the right order of magnification.
- 5- Below the stage there is a ring holder for the condenser. Insert the condenser and fix it with the screw on the left side of the ring holder.

#### **Adjustment of the interpupillary distance (only for B-130)**

Switch on the illumination system and change the distance between the two eyepiece tubes until you see one round sharp image.



#### **Focusing**

Use the macrometric knob to lower the stage. Place the slide on the table and select the 4x objective from the nosepiece.

Use the stage movement knobs to put the slide right under the objective.

While looking through the eyepieces bring the table into a higher position by using the macrometric knob, until you see the specimen. Then use the micrometric focusing knob to obtaining a perfect focused image.

When you want to see the sample under a higher magnification, turn the revolving nosepiece for the next objective. Do not skip an objective!

Every time you change an objective you must use the micrometric focusing knob to obtain the right focus again on the sample.

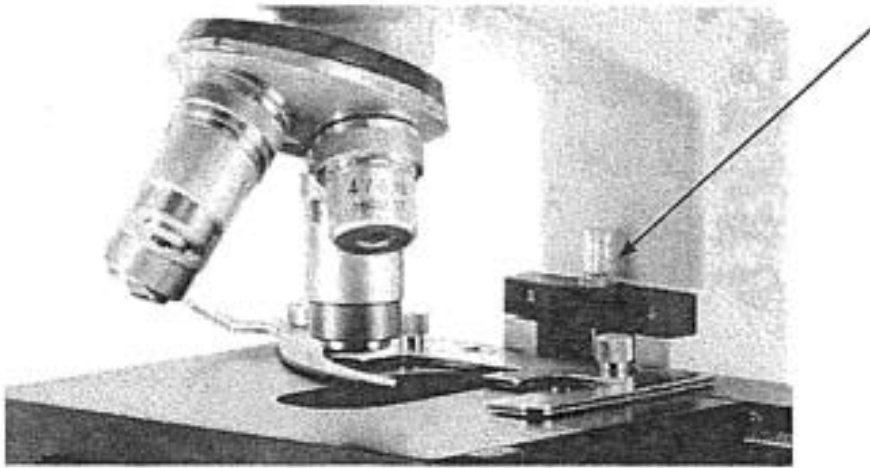
# ALIGNMENT AND USE OF THE MICROSCOPE

## **Dioptric compensation (only for B-130)**

This compensation makes it possible for people with glasses till plus and minus 5 dioptic, to adjust the microscope to their eyes and use the microscope without glasses. First focus the eyepiece for the right eye, by using the turnable ring on the tube. After that, repeat the procedure for the left eye until you have a sharp view with both eyes.

## **Blocking the height of the table**

If the stage is raised too high there is a risk to break the slide. In order to prevent this situation you can set the maximum height of the table with the screw as shown on the illustration. Please note that the right position for your microscope is already selected by your supplier.



# OPTICAL FEATURES

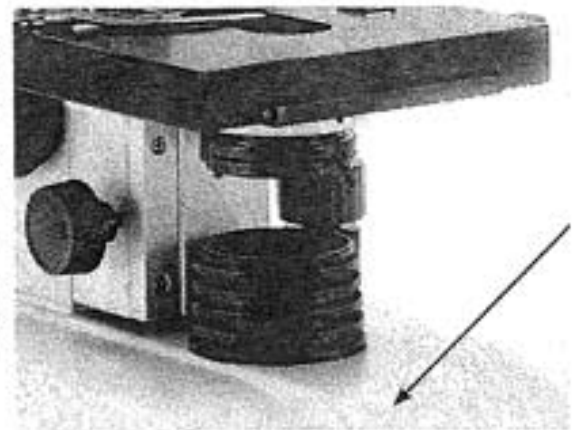
<b>OBJECTIVES</b>			
<b>TYPOLOGY</b>	<b>MAGNIFICATION</b>	<b>A.N.</b>	<b>WORKING DISTANCE (MM)</b>
Achromatic	4X	0.10	17.00
Achromatic	10X	0.25	8.00
Achromatic	40X	0.65	0.40
Achromatic	100X (OIL)	1.25	0.25

<b>TOTAL MAGNIFICATION</b>				
	<b>OBJECTIVE 4X</b>	<b>OBJECTIVE 10X</b>	<b>OBJECTIVE 40X</b>	<b>OBJECTIVE 100X</b>
<b>EYEPIECE H5X (OPT)</b>	20X	50X	200X	500X
<b>EYEPIECE WF10X</b>	40X	100X	400X	1000X
<b>EYEPIECE WF16X (OPT)</b>	64X	160X	640X	1600X

M-001	H5x eyepiece	M-140	Polarising set (filters only)
M-002	WF10x/18mm eyepiece	M-018	5W fluorescent neon bulb
M-003	WF16x/12mm eyepiece	M-972	Plane-concave mirror, with base, Type 5
M-004	Micrometer eyepiece WF10x/18mm		
M-131	4x achromatic objective		
M-132	10x achromatic objective		
M-133	20x achromatic objective		
M-134	40x achromatic objective		
M-135	60x achromatic objective		
M-136	100x achromatic objective		
M-040	Attachable mechanical stage		
M-031	Dust cover type 3		

### Replacing the bulb

Always wait at least 15 minutes before replacing a bulb, as the bulb can be very hot. Before replacing the bulb take out the plug from the microscope. Put the microscope on the backside and unscrew the black bottom plate. Cut the string that is holding the lamp and remove the old bulb. Take the new bulb out of the packaging and put the bulb in the right place. Secure the bulb with a tie wrap.



### Maintenance of the microscope

To protect the microscope from dust, there is a dustcover included in the box with the microscope. Use this dustcover every time you are not using the microscope.

If you do need to clean the microscope use a cotton cloth. The best way of removing oil or grease is by using mix of alcohol and water. Avoid using solvents or aggressive cleansers.

### Cleaning the optical parts

For removing dirt and dust from optical parts, you can use the following products:

- Ethanol
- Compressed air
- Cotton or lens paper for cleaning the lenses
- Small brushes or soft paint-brushes

### Mechanical and optical problems

Please contact your OPTIKA supplier, they have the knowledge and experience for repairs. Do not try to repair the microscope yourself.

# RECOVERY AND RECYCLING

Art.13 Dlsg 25 July 2005 N°151. "According to directives 2002/95/EC, 2002/96/EC and 2003/108/EC relating to the reduction in the use of hazardous substances in electrical and electronic equipment and waste disposal."



The basket symbol on equipment or on its box indicates that the product at the end of its useful life should be collected separately from other waste.

The separate collection of this equipment at the end of its lifetime is organized and managed by the producer. The user will have to contact the manufacturer and follow the rules that he adopted for end-of-life equipment collection. The collection of the equipment for recycling, treatment and environmentally compatible disposal, helps to prevent possible adverse effects on the environment and health and promotes reuse and/or recycling of materials of the equipment. Improper disposal of the product involves the application of administrative penalties as provided by the laws in force.