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Student Biological

Instruction Manual



To ensure the safety and obtain satisfactory performance, please study this instruction manual thoroughly before start to use the instrument.

Contents:

- I, The applications**
- II, Names of the parts, components and accessories**
- III, Major technical index**
- IV, How to use**
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Applications:

Widely used in electronics industry, assembling and inspection of precise instruments and meters, educational experiments, observation and research. It can be used in the schools, research institutes, factories, and families to study the geology, out appearance of objects.

Names of the parts and accessories :

Base, fixing block, sliding stand, pole , hand clamp, incident illuminator,
Eyepieces, diopter adjustment ring, prism housing, objective, power switch

Major technical index:

- 1, optical index: Field scope, Working distance,**
- 2, electric index: input voltage: 220V 50Hz or 110 60Hz(optional)**
 - Illumination style:**
 - 1), natural light**
 - 2),The illumination coming from the source of a ball shaped lamp(A/C12V/10W or 6V6W) through the condenser, becomes soft and brighter. (optional)**
 - 3), structure index: binocular head slanting 45 degrees**
 - left & right diopter adjustment +/- 5 degrees**
 - inter-pupillary adjustable distance: 54---76mm**

How to use: Regarding the names of the parts please refer to Part II.

1, environmental requirement when in use:

Dry and dust-free. Room temperature should be between -5°C ---- $+40^{\circ}\text{C}$

2, Illuminator control: Plug in the power cord and use the switch.

3, One pair of rubber eye guards is contained inside the packing. They are used to prevent the extra light from entering the eyepieces, to improve visibility.

Focusing, diopter, inter-pupillary adjustments:

Place a specimen onto the stage. Loosen the body locking thumb screw and hold the microscope head and move the body up and down to fix it at the estimated working distance. Rotate the zooming knob while looking through the right eyepiece until you see the image. Using the focusing handles to get the sharpest image of the specimen. Then look through the left eyepiece with your left eyes and turn the diopter adjustment ring until you get an image as sharp as the right one. Then grasp the right and left prism housing and move them closer or farther apart in order to match your pupils' distance. Adjustment is proper when the field of view becomes comfortable and presents a full single field.

Lamp and fuse replacement:

Disconnect electric power supply before replacement! Make sure the bulb to be replaced is not hot.

1, replacement of incident lamp: Take off the incident lamp tube assembly and you will be able to replace the bulb.

2, Replacement of fuse: Unscrew the fuse holder at the back part of the base and change the fuse .

Maintenance and general care of your microscope:

1, Microscope is a delicate precision instrument and it may be

damaged by dropping and hitting.

2, Do not keep microscope under sun. It should be kept in a dry and clean environment and avoid heat and strong tremor.

3, To obtain clear image, do not touch lenses with your finger.

4, All lens surface should be kept clean. If the lens get dusty blow off the dust with a rubber syringe. If necessary clean the lenses with a lint free cloth dipped in aether.

5, Do not use any organic material to clean the microscope surface, especially the plastic surface. It should be cleaned by neutral detergent.

6, Because the assembly of all parts has been done by skilled optical craftsmen at the factory, you should never attempt disassembly.

7, Apply a little bit grease regularly to the mechanical parts.

8, When not in use always cover the microscope with the dust cover and place it in a cool and dry place.

Optional parts:

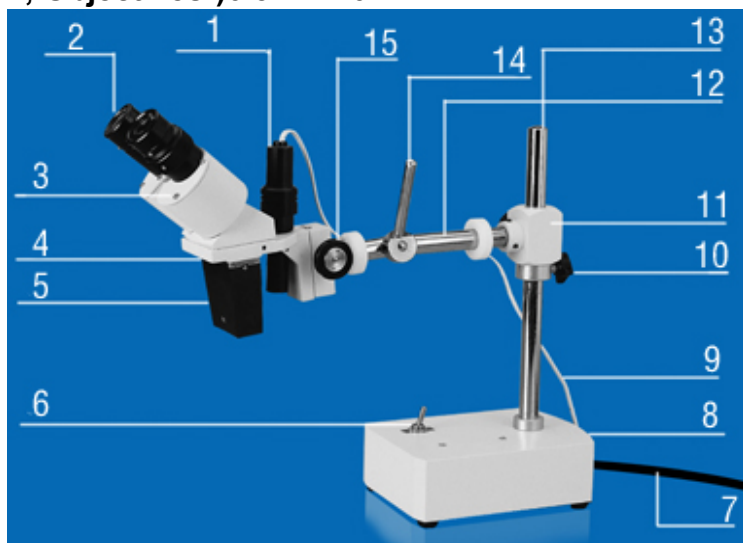
1, Eyepieces:

Models

Magnifications

Viewing field

2, Objectives: 0.5X 1.0X



1	Incident light	9	Illumination cable
2	Eyepiece	10	Fastening knob
3	Prism housing	11	connector
4	Holder	12	Horizontal pillar
5	Objective case	13	Pillar
6	Switch	14	Connect spanner
7	Power cable	15	Focusing knob
8	Base		