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OPERATION MANUAL

Model ISM-S10L

Long Working Distance Stereo Microscope



Please read the manual before using the microscope.

Contents:

- I. Applications
- II. Names of the parts, components and accessories
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I. Applications

Widely used in electrical 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.

II. 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. Refer to figure 1.

III. Specifications

- Long arm for microscope body
- Illumination incandescent lamp
- Inclined binocular head inter-pupillary distance 55-75mm
- Diopter adjustment on left tube +/- 5 Dio
- Eyepiece WF10X
- Inserted objective 1X
- Working distance of objective 230mm

IV. How to use

1. Environmental requirement when in use: dry and dust-free. Room temperature should be between 5-40°C.
2. Illuminator control: supply power and make the switch on "ON" state.
3. One pair of rubber eye guards is contained inside the package. They are used to prevent the extra light from entering the eyepieces, to
4. improve visibility.
Focusing, diopter, inter-pupillary adjustments:
Place a sample on the stage. Loose the body locking thumb screw and hold the microscope head. Adjust the height of the microscope head and 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 clearest image of the sample. Then look through the left eyepiece with your left eye and turn the diopter adjustment ring until you get an image as clear as the right one. Then grasp the right and left prism housing. Adjustment is proper when the field of view becomes comfortable and presents a full single field.

V. Lamp and fuse replacement

Turn off the power! Make sure the lamp or fuse is not hot when make the adjustment.

1. Replacement of incident lamp: Take off the incident lamp tube and you will be able to replace the lamp.
2. Replacement of fuse: Unscrew the fuse holder at the back part of the base and replace the fuse.

VI. Maintenance

1. Microscope is a 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. Clean the lens with a lint free cloth dipped in aether if there is dust on the lens.
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. Cover the microscope and place it in a cool and dry place when it is not used.

VII. Optional accessories

1. Eyepieces: WF5X/22, WF15X/15, WF20X/10
2. Objectives: 0.5X, working distance 250mm

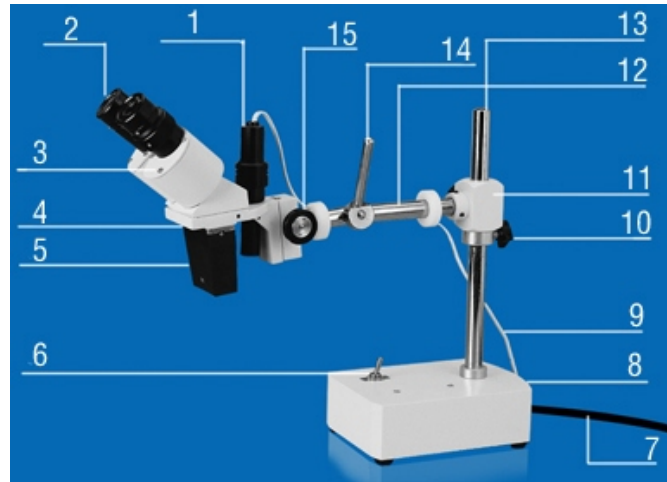


Figure 1

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		