

R0502139

INSTRUCTION MANUAL N-100A

1. APPLICATIONS:

The microscope is provided with achromatic objectives, wide field eyepieces, and coaxial coarse and fine focus adjustment. This microscope with its wide field eyepieces gives a nice and sharp image and is designed in a very modern way. It is specially designed for clinical examination and teaching demonstration in laboratories, colleges and medical field. It is also an ideal instrument for biological, bacteriological, pathological and pharmaceutical research.

2. SPECIFICATIONS:

1. EYEPIECE:

| Designation | Magnifications | Field Of View | Focal Length |
|---------------------|----------------|---------------|--------------|
| Wide Field Eyepiece | 10x | 18mm | 24.46mm |

2. OBJECTIVE:

| Designation | Magnifications | Numerical Aperture | Focal Length | Working Distance |
|-------------|----------------|--------------------|--------------|------------------|
| Achromatic | 4X | 0.1 | 31.04 | 37.5 |
| | 10X | 0.25 | 17.13 | 7.316 |
| | 40X (S) | 0.65 | 4.65 | 0.632 |

3. Total Magnifications: 40X----400X

4. Mechanical tube length: 160mm

5. Plain Stage: 125mmx120mm,

6. Single Lens W/Iris

7. Illumination System: 1W S-LED

8. Package: Each Set in Styrofoam to Carton for Safety

3. USAGE:

1. In order to get a sharp and clear image, you must adjust the illumination system. When using objectives of different magnification, please adjust the iris diaphragm of the condenser to bring its numerical aperture and objective's numerical aperture into coincidence. As usual, the numerical aperture of condenser should be controlled slightly smaller than that of objective to prevent the other light beam from entering the field of view, which would influence the contrast of the image.

2. Insert the eyepiece into the inclined eyepiece tube, then rotate the objectives in sequence, according to their magnifications, into the threaded holes of the nosepiece. Place the specimen in the center of the field of view, First use low power objective to find the specimen image and then observe it with high power objective, at the same time, adjust fine focusing knob until the image is clear. When using 100X oil-immersion objective, the space between the front of objective and specimen surface should be full of cedar oil. Drops of cedar oil must be strictly free from air bubble, and the objective should be cleaned immediately after using, otherwise it may solidify and make cleaning difficult.

4.Maintenance

1 Unpack the case carefully to avoid the elements such as lens falling down and being damaged. Before using, please remove the piece of rubber which protect the coarse and fine focus adjustment from shocking.

2 The microscope should be kept in cool, dry place and covered with dust cover after using.

3.Never disassemble the lens because they are corrected stringently. If there is stain on the lens, then wipe it off by alcohol, but you should pay attention not to seep it into the inside of the objectives so as not to dissolve glue. Dust on the lens can be wiped away by clean brush.

4.Coarse and fine focusing equipment and nosepiece are precisely constructed and should not be dismantled without authorization.

5.THE COMPLETE SET OF THE MICROSCOPE

| Items | Contents | Quantity |
|-------|--|------------|
| 1 | The main body of the biological microscope , | 1set |
| 2 | Eyepiece: 10X | 1pc |
| 3 | Objective 4X, 10X, 40X | 1pc apiece |
| 4 | Triple Nosepiece | 1pc |
| 5 | Filter: green | 1pc |
| 6 | 1W S-LED | 1pc |
| 7 | Instruction manual | 1 copy |