

Nikon

Stereoscopic Microscope SMZ-1

INSTRUCTIONS

CAUTIONS

- ① **Avoid sharp knocks!**
When carrying the microscope, or manipulating, handle the microscope gently, taking care to avoid sharp knocks.
- ② **Locations of microscope**
Avoid the following conditions: dust, vibration and exposure to high temperature, moisture or direct sunlight.
- ③ **Dirt on the lens**
Do not leave dust, dirt or finger marks on the lens surfaces. They will prevent you from clear observation of the specimen image.

MAINTENANCE

- ① **Cleaning the lenses**
To clean the lens surfaces, remove dust using soft brush or gauze. Only for removing finger marks or grease, should soft cotton cloth, lens tissue or gauze lightly moistened with

absolute alcohol (ethyl or methyl alcohol) be used.
Observe sufficient caution in handling alcohol.

- ② **Cleaning the plastic parts**
Avoid the use of any organic solvent (for example, thinner, ether, alcohol, xylene etc.) for cleaning the plastic parts and painted surfaces of the instrument.
- ③ **Never attempt to dismantle!**
Never attempt to dismantle the instrument so as to avoid the possibility of impairing the operational efficiency and accuracy.
- ④ **When not in use**
When not in use, cover the instrument with the accessory vinyl cover, and store it in a place free from moisture and fungus.
- ⑤ **Periodical checking**
To maintain the performance of the instrument, we recommend to check the instrument periodically. (For details for this check, contact your dealer.)

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NOMENCLATURE AND USING

Eyepieces

The eyepieces available as standard for the Microscope SMZ-1 are 10X. 15X, 20X and 33X are also available on order. Note that no regular (biological) microscope eyepiece can be used interchangeably.

Diopter rings

Provided on both the righthand and lefthand eyepieces and adjustable to prevent out-of-focus during the time of zooming.

Microscope body

Microscope body clamp screw

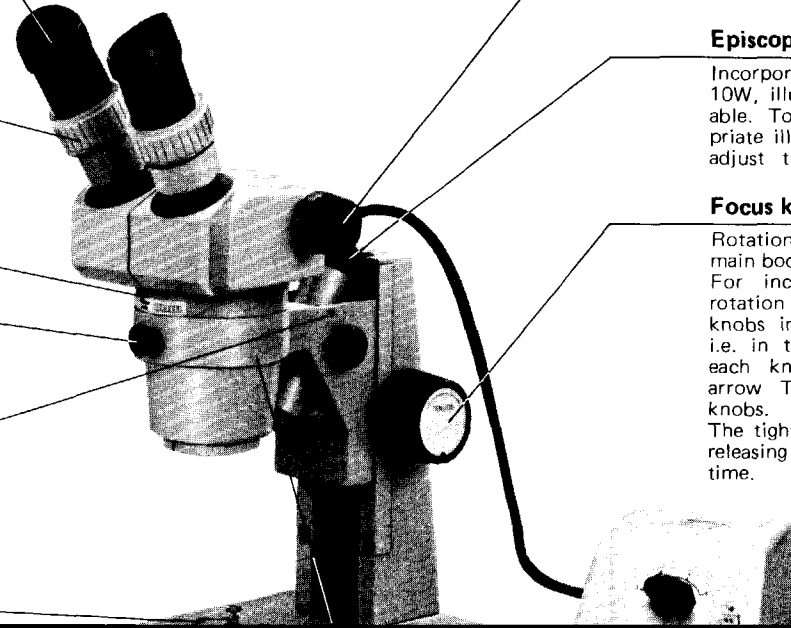
For fastening firmly the main body of Microscope SMZ-1 onto the focus stand.

Flexible arm attaching screws

Provided on both the right and left sides of the Microscope and used to attach the flexible arm.

Clips

To hold the specimen in place



Zooming knob

Rotation of the zooming knob changes the magnifying power of the objective continuously from 0.7X to 3X, the powers being indicated on the knob.

Episcopic illuminator

Incorporates a halogen lamp 6V-10W, illumination angle is changeable. To achieve the most appropriate illumination for observation, adjust the position of the lamp.

Focus knobs

Rotation of the knobs moves the main body of microscope. For increasing the tightness of rotation turn the right and lefthand knobs in the opposite directions, i.e. in the fastening direction for each knob, as indicated by the arrow TENSION marked on the knobs. The tightness will be decreased by releasing the each knob at the same time.

OPERATING PROCEDURE

- ① Place the specimen onto the stage plate.
- ② Turn both diopter rings on the binocular tubes until the end surface of each ring coincides with the black engraved line.
- ③ Looking into the eyepieces of the binocular tubes, adjust the interpupillary distance by moving the binocular tubes, so that both the circular viewfields are brought into coincidence.
- ④ Set the zooming knob to 3X.
- ⑤ Rotating the focus knobs, bring the specimen image into focus. If, beforehand, the distance between the specimen and the bottom of the microscope main body is made about 100mm, focusing will be facilitated.
- ⑥ Rotate the zooming knob to 0.7X.
- ⑦ Manipulating the right- and lefthand diopter rings one after the other, bring the images into focus independently.
- ⑧ Repeat the above processes from ④ to ⑦ to make sure of exact focusing, and then the

ACCESSORIES

Eyepieces:	15×, 20× and 33×
Auxiliary objectives:	0.27×, 0.4×, 0.5×, 0.7×, 1.5× and 2.0× (with 0.5× objective, use the low power adapter)
Universal illuminator	
Fluorescent ring illuminator	
Fiber optics illuminators:	Bifurcated and Ring illuminators
Diascopic illuminator base	
Episcopic illuminator:	Incorporates a halogen lamp 6V-10W (G.E. No. 787)
Flexible arm	
Universal arm	
Universal stand:	Table stand and Table clamp stand

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