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Binocular Microscope



Introduction

The development of the Binocular microscope has changed the way Scientists and researchers go about observing cells, tissues and samples of other matter. Binocular microscope is simply a microscope that lets the viewer use both eyes.
The microscope has 2 eye lenses. The development of the double eye piece microscope was adapted to reduce the eyestrain and muscular strain that typically results from traditional microscopes. The costs are comparable to a single eyepiece instrument. The popularity of the binocular has grown over the years and currently represents that vast majority of units sold. The term "binocular" comes from two different words, with "bi" meaning "two" and "ocular" meaning "related to vision". Together these two words very well apply to a microscope with two eyepieces.

Different parts and functions of a Binocular microscope: -

The 2 dual eye pieces of binocular microscopes make it easier and more comfortable to view and analyze the lab specimen than monocular microscopes. The various parts and their functions of binocular microscopes are as follows.
BODY: Well designed die-casted body staple grey & black contrast with hard instrumental Chromium finish.
OBSERVATION HEAD: Special quality Binocular observation head inclined at 450 & rotatable through 3600. All prism & optical surface are anti reflection coated. Standard interpupillary distance and diopter adjustment provided.
NOSE PIECE: Dust proofquadruple nose piece with clik for perfect optical alignment.
STAGE: Fixed stage 140mm X 120 mm with built in co-axial mechanical stage for easy and smooth bearing.
CONDENSER: Double lens bright field Abbe's condenser N.A 1.25 with iris diaphragm moveable by rack pinion.
ILLUMINATION: By halogen lamp 6V-20Watts operated through built in solid state transformer with electronic regulator.
SAFETY STOPPER: prevent damage to slides & objectives.

How does it work?

A microscope works largely by refraction. Refraction is the change in direction of a propagating wave (light or sound) when passing from one medium to another. A light source shines light through a specimen and sends an image to the objective lens which then translates into a viewable image through the ocular lens. The image can then be brought into focus in order to observe it more clearly.

What are the uses of Binocular microscopes?

This microscope is used in several fields of science and medicine and research.

It is used in scientific classes in elementary schools, high schools and college level courses.

The most common fields that often require the use of this type of microscopes are botany, microbiology, genetics and geology.

*Safety Notes

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1. **Open the shipping carton carefully to prevent any accessory, i.e. objectives or eyepieces, from dropping and being damaged.**
2. **Do not discard the molded foam container; the container should be retained should the microscope ever require reshipment.**
3. **Keep the instrument out of direct sunlight, high temperature or humidity, and dusty environments. Ensure the microscope is located on a smooth, level and firm surface.**
4. **If any specimen solutions or other liquids splash onto the stage, objective or any other component, disconnect the power cord immediately and wipe up the spillage. Otherwise, the instrument may be damaged.**
5. **All electrical connectors (power cord) should be inserted into an electrical surge suppressor to prevent damage due to voltage fluctuations.**
6. **Confirm that the input voltage indicated on your microscope corresponds to your line voltage. The use of a different input voltage other than indicated will cause severe damage to the microscope.**
7. **Place the microscope on a sturdy flat desk or workbench**
8. **Do not subject the microscope under direct sunlight, keep away from the wall more than 20cm**
9. **Microscope is precision optical instruments which require caution during operating and avoid sudden violent shocks or impacts.**
10. **When moving the microscope, the user should hold the frame body and the base of**

the bottom by both had. It is forbidden to uplift the microscope observation tube.

11. Microscope cannot be moved from low temperature environment to high temperature environment immediately. It will cause the optical parts mold fog and image unclear which unable to observation.

Contact data

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