



IS 4328:1967 Monocular Dissecting Microscope

A **monocular dissecting microscope** is basically a simple microscope mounted on strong base for hand rest and a transparent stage for **holding and dissecting specimens**. It has one eyepiece and eye tube that magnifies samples to allow for a **3-dimensional view** of a **specimen** or **sample for dissection**. Monocular dissecting microscopes are useful for viewing **larger specimens like leaves, insects, flowers, rocks, coins, fingerprints, and circuit boards**. They are a good tool for **kids, students, hobbyists, and entry-level users**.

A good monocular dissecting microscope must be **durable** as well as **portable**. It should have **high-quality optics** to produce **bright and crisp images**. Also, to provide **stability** to the device, it must have **proper clamping arrangement**.

The **Indian Standard, IS 4328:1967**, specifies the **general and functional requirements** for the monocular dissecting microscope. It specifies that the **magnifier** of the microscope should have a **minimum magnification of 10X** and a maximum magnification for **20X**. Also, it ensures that the **range of focusing** of the magnifier is not less than 40 mm for **optimum visibility**. The magnifiers may be of **simple doublet, achromatic, aplanatic, Coddington, wide field or any other suitable type**.

In summary, **IS 4328** is your assurance that the monocular dissecting microscope is **reliable** and **safe** to use. So, Next time you purchase this device, look for the BIS mark to ensure they meet these standards, giving you an **optimal user experience**.