

## 631-1210 Microtome



**Introduction:** A microtome is a device used to get an extremely thin slice of a sample. When cut thinly enough, most materials become translucent, making them perfect for viewing on a microscope. However, trying to cut consistently thin samples by hand is next to impossible, hence the need for a specific tool.

**Operation:** To use your microtome, you will first need to load your sample. You will notice a brass pipe in the center of the unit. Place your sample in this pipe so that several millimeters are protruding. Using the thumbscrew on the side of the shaft, clamp your sample in place.

Next, place one of the glass covers on the upper portion of the unit.

Next, assemble your razor. You can use the included razor, or one of your own if you prefer. To assemble it, find the small black plastic holders. One comes with a guard, the other not. Place one of the included blades in the holder and fold it over on itself. Then, place the assembly into the razor handle.

Finally, slice off the protruding portion of your sample and discard it. It should be sliced off flush with the glass plate. By turning the crank at the bottom of the unit, you can push the sample out of the holder ever so slightly. Turn the crank until a very thin portion of the sample is exposed. Then, slice off the sample and transfer it to a slide for viewing.

Be careful when handling the razor blades. Remember, the thinner the slice, the more light can shine through. This will give you a better view of whatever you're looking at.

### **Warranty and Parts:**

We replace all defective or missing parts free of charge. Additional replacement parts may be ordered toll-free. We accept MasterCard, Visa, checks and School P.O.s. All products warranted to be free from defect for 90 days. Does not apply to accident, misuse or normal wear and tear. Intended for children 13 years of age and up. This item is not a toy. It may contain small parts that can be choking hazards. Adult supervision is required.