

Instructions for Determining Near Pupillary Distances for Binocular Reading and Surgical Telescopes

This Technique Requires:

- 1. A trial frame**
- 2. Trial lenses to provide the near reading power**
- 3. Pinhole occluder**
- 4. Stenopaic slit occluder**
- 5. Near point reading card or equivalent target**

Procedure:

1. Determine the desired working distance for the binocular telescope system by discussions with the user.
2. Place the proper lens power for the desired working distance (if any) in the rear cells of the trial frame for each eye.
3. Place the pinhole occluder in the front cell of the right eye.
4. Place the stenopaic slit in the front cell of the left eye with the slit positioned vertically.
5. Position the reading card at the desired working distance and centered in front of the user (do this at a table).
6. With the left eye occluded (or closed) adjust the pupillary distance (PD) of the right eye until the image through the pinhole is perfectly centered on the reading card.
7. With both eyes open adjust the PD of the left eye until the image through the slit is perfectly centered over the pinhole image from the right eye. The patient should see an image that looks like this:



8. Remove the trial frame and record the monocular pd for each eye.
9. Be certain that the trial frame is positioned on the nose to approximate the vertex distance of the frame that will be used for the telescope system.