

## How to use 8" GPS telescope, POLAR ALIGNMENT

What you need:

Telescope

Tripod or Pier

Autostar hand controller with connecting wire

Autostar hand controller holder –optional-

Telrad

Diagonal

Eyepiece

How to setup your scope:

- 1) Find the North Star, Polaris. The North Star will not move and will be found just above the Mission Hospital.
- 2) Attach the telescope to the tripod and bolt it down tightly with at least 2 thumbscrews.
- 3) Attach the Telrad.
- 4) Align the Telrad with the Telescope. Use the moon or a bright star or planet.
- 5) Point the telescope at the North Star with the Telrad pointing straight up. The DECLINATION should read 90°. The telescope and telrad should look like a dolphin jumping out of the water.
- 6) (optional) manipulate the pier and the wedge until the North Star is observed in the *exact* center of the eyepiece.
- 7) Attach the Autostar hand controller with connecting wire and the hand controller holder.
- 8) Turn the telescope “on”

How to align the telescope:

- 1) The telescope will beep and give a reading on the Autostar hand controller.
- 2) Press **MODE** until the hand controller reads “two star alignment” and press **ENTER**. The telescope will perform a GPS alignment and ask you what star to align towards. For the first star, pick:\_\_\_\_\_
- 3) The telescope will find the bright star and slew towards it.
- 4) After the hand controller beeps, use the hand controller to move the telescope until the star is in the EXACT center of the Telrad. Then, check the telescope and use the hand controller so that the star is in the EXACT center of the eyepiece. Press **ENTER** on the hand controller and place the hand controller in its holder. The telescope will ask you what star to align towards next. For the second star, pick:\_\_\_\_\_.
- 5) Use the hand controller to move the telescope until the star is in the EXACT center of the finder scope eyepiece. Then check the telescope and use the hand controller so that the star is in the EXACT center of the eyepiece. Press **ENTER** on the hand controller. The telescope will do some internal calculation and should read “Alignment successful”

How to use the telescope:

Rule #1 You can not break the hand controller by pressing buttons. To stop an action press MODE several times and the normal screen will come up. If the telescope is going totally insane, turn it off.

I recommend using the automatic program “Guided Tour”, “Tonight’s Best”.

Press the **MODE** button and the arrows until you find “Guided Tour” and press **ENTER**. Then press ENTER again at “Tonight’s Best”. Read the prompt and press **ENTER**. When an interesting object is named press **ENTER** and then **GOTO** and the telescope will go to it. To find another object press MODE and a new object’s name will appear.