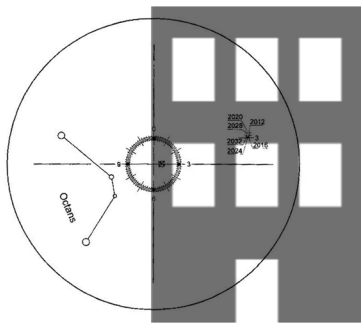


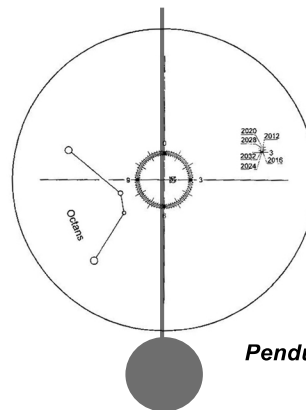
HM5 Polar Alignment Scope User Manual

1. Align vertical axis

Find an object with an exactly vertical side e.g. building, lamppost etc. (you will have the most accurate result if you use a pendulum to set the vertical axis). Set the vertical axis of the polarscope paralell with the object (building, lamppost etc.)



Building with exact vertical side



Pendulum

2. Polar alignemnt

2.1. For observing in Northern Hemisphere: Find the Polaris (*The brightest star near the North Celestial Pole*) in the polar scope; then move the Polaris to the proper position in the field of view of the polar scope. Polaris is moving around the center point (NCP) in every 24hours. The orbit of Polaris around the north celestial pole also changes gradually over time.

The 3 central circles in the polar scope pattern are the orbits for year 2012, 2020 and 2032. Users should refer to these circles and the current year to put the Polaris at the proper radius.

To check where the polaris should be seen in the field of view please check the position of the Polaris real time this link below: <http://www.hedenus.de/astro/astrostat/index.html>

2.2. For observing in Southern Hemisphere: In the FOV of the polar scope, locate the 4 dim stars (Around Magnitude 5 to 6) which form the pattern like the "Octans" drawing in the polar scope (refer to Fig. 3.2a). Loosen the R.A. clutch and rotate the R.A. axis to align the orientation of the "Octans" drawing to the 4 stars. Then use the spring loaded handle and the azimuth adjustment knobs to move the 4 stars to the 4 small circles of the "Octans" drawing.

