

Oculus-ASR is a nanosatellite currently being developed to aid in the advancement of U.S. Space Situational Awareness as part of the University Nanosatellite Program. The program gives students the opportunity to work with industry sponsors in an effort to construct the best nanosatellite in a nationwide competition, hosted by the Air Force Research Laboratory (AFRL). Now in its 6th iteration, the program is commonly referred to as UN-6.

The main goal of the Oculus-ASR project is a contribution towards space situational awareness by way of telescope calibration and space-to-space imaging. The Oculus-ASR will provide calibration opportunities with a vehicle of known optical characteristics for observation by the Attitude and Shape Recognition program's ground-based telescopes. Additionally, the Oculus-ASR will be capable of acquiring, imaging, tracking, and monitoring objects within the local vicinity of the vehicle.