

# NavAid

## HAHO/HALO Navigation Flight Computer

The High Altitude-High Opening/High Altitude-Low Opening (HAHO/HALO) Navigation Aid (NavAid) will allow the Special Operations Forces (SOF) infiltration capabilities in all environmental situations. Currently, teams have little ability to navigate to a target unless it is seen at exit. This system will make it possible to navigate blindly and land precisely during adverse weather conditions—clouds, rain, snow, fog, and darkness—thereby greatly reducing the possibility of detection.



Atair Aerospace is developing an advanced version of their HAHO/HALO NavAid that will be equipped with a head mounted display (HMD). The HMD is based on the SO-35 Land Warrior HMD developed by Atair's strategic partners, Rockwell Collins and Kaiser Electro-Optics.

Sophisticated features include integrated GPS/INS for advanced auto-pilot guidance, automatically scaling maps and satellite imagery, waypoint tracking, team member tracking, alternative target designations, predicted release cones based on wind data, as well as the ability to transition to advanced ground-based functions after landing.

Additional advanced features include dynamically created, wireless, self-healing, ad-hoc mesh networks for the automatic creation of Peer-to-Peer (P2P) linking for up to 50 team members. This will allow team members to see each other's location throughout flight and after landing. The P2P linking also enables a single base station computer to simultaneously perform mission planning on multiple NavAids and provide real-time tracking of the telemetry of each team member. The range of the RF transceivers is 60+ miles air-to-air or air-to-ground, and 2 to 10 miles ground-to-ground depending on conditions.



The HMD is a full-color, high-resolution SVGA display that can be used with standard Night Vision Goggles for night operations. A universal mounting design was developed to make the HMD compatible with a variety of helmets as well as Ballistic Laser Eye Protection (BLEPs) with minimal normal vision obstruction.

Atair Aerospace and Rockwell Collins are currently investigating the possibility of bringing together Atair's NavAid technology with Rockwell Collins' Defense Advanced Global Positioning System Receiver (DAGR) and SAASM GPS technologies. Building upon Rockwell Collins' highly successful Precision Lightweight GPS Receiver (PLGR), the Rockwell Collins DAGR incorporates five times the capabilities and functions of the PLGR while reducing the overall size and weight of the receiver.

Please contact us for more information, to arrange a demonstration, or purchase a Beta unit.

For more information, view our web site at [www.atairaerospace.com](http://www.atairaerospace.com)