Bi-Directional Remote Video Terminal - BDRVT®

- Allows Safe Supervisory Usage of UAS Vehicle and Payload
- Stare-At, Stare-From, and Follow-Me Modes
- Automated Optical Tracking of Fixed and Moving Targets
- Air Vehicle Based Auto Routing
- Autonomous Route and Area Searches
- Software Only Upgrade to AAI’s OSRVT® and One System® GCS

STANAG 4586 Level 4 Controller (Class C CUCS)
The BDRVT® allows a soldier with a remote receiving station for video and telemetry supervisory control of the Unmanned Aircraft System (UAS) and its payload (STANAG 4586 Level 4). The BDRVT® enhanced UAS subsystem consists of image planning, mission processing, and payload command processing software.
**Safe Airspace Volume (SAV) Creation & Analysis Tool**
This tool is used to plan and verify mission areas limited to Restricted Operating Zones (ROZ) imposed by upper echelon airspace management or other tactical activity. Additionally, the tool factors in the effects from the terrain to overlay a Safe Air Volume (SAV) to ensure line-of-sight communications between the Ground Control Station (GCS) and Unmanned Aircraft System (UAS) are sustained.

- Enhanced airspace management
- Reduced Air Vehicle Operator (AVO) workload
- Prevents flying the UAS out of range and out of “controlled” airspace
- Prevents controlled flight into terrain

**Sensor Footprint with Terrain Shadowing**
This feature provides visual feedback on whether or not the sensor coverage includes a specific geo-location of interest. Terrain shadowing allows the operator to determine areas not captured by the sensor footprint due to terrain blocking.

- Enhanced RSTA
- Improved target geo-location
- Real-time awareness of an UAS location and what it is observing

**Keep In Algorithm (KIA)**
This feature computes a safe multi-waypoint route from the current Air Vehicle (AV) position to a desired loiter point.

- Prevents controlled flight into terrain
- Keeps the UAS within safe limits on pitch, roll, altitude, and airspeed
- Creates a multi-waypoint route from a safe loiter point to a Point of Interest (POI)

**Route & Area Nomination**
This feature allows the operator to quickly plan complex missions directing the UAS to gather imagery of a route or area of interest without the need to manually fly the UAS and control the payload.

- Reduces mission planning cycle and operator workload
- Improves convoy routing during normal & emergency situations
- Allows convoys to avoid congested areas and roadblocks