CompassVISION

Precision PNT in GPS Denied/Degraded Environments

- ✔ Less than 10m RMS Position Accuracy in GPS-Denied Environments
- ✔ Modular Design for Seamless Integration
- ✔ Navigate with Real-Time FOM and Integrity Monitoring
- ✔ Adaptable to Your Mission Needs with a Flexible, Open Architecture
- ✔ Works with Air, Ground, or Dismounted Applications

RELIABLE NAVIGATION. SIMPLIFIED.

CompassVision is a GPS-denied, vision-based navigation system that combines image processing, nonlinear sensor fusion, and machine learning techniques to deliver a flexible solution with demonstrated performance over a wide range of terrain types, cloud conditions, and day/night operation.

PERFORMANCE AND FLEXABILITY

With proven TRL 9 technology, compatibility with systems like Novatel and ATACNAV, a customizable moving map, and reliable performance in adverse conditions, Lynx is built for mission success.

- CompassVision Delivers Navigation You Can Trust
- Low SWAP Design, High Precision Results Under Any Conditions
- Versatile Interfaces: Ethernet, Serial, ARINC, and More for Hassle-Free Integration
- Navigate Beyond Boundaries – Day, Night, or Through the Clouds

CompassVision Applications

Aircraft

- ✓ Group 1 - 3 UAS
- ✓ Manned ISR
- ✓ General aviation

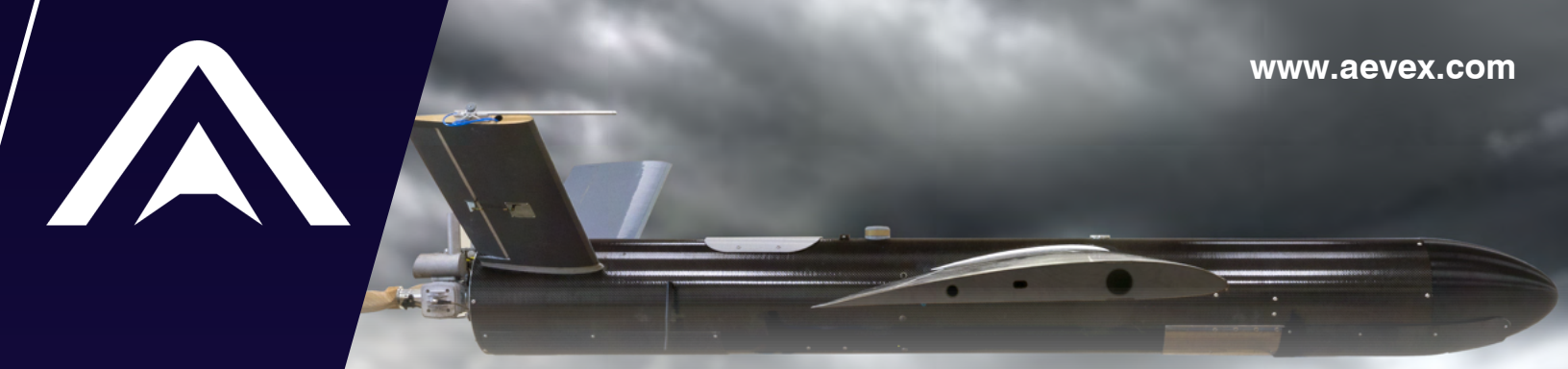
Visual-Based Navigation

- ✓ Reference-quality GNSS+INS
- ✓ Passive GNSS-Degraded/Denied
  - Navigation
  - Indoors
  - Underground
  - Dense Urban Operations
- ✓ Airspeed Independent
- ✓ 10m RMS 3D Positioning Error (>500' AGL)
- ✓ Day / night / Clouds (up to 80% cloud coverage)
- ✓ FOM and Integrity Monitoring and Reporting

Targeting

- ✓ Automatic Target Recognition
- ✓ Optical Target Tracking
- ✓ Visual Guidance

www.aevex.com



CompassVISION

Navigate with Confidence, Day or Night, in Adverse Conditions

LYNX VISION NAV is a TRL-9 GPS-denied Vision Navigation Module with best-in class accuracy and the flexibility to incorporate multiple sensor inputs on a variety of platforms

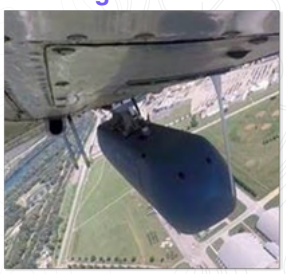
Multiple Capabilities

- Navigate independent of external signals
- Monitor position, velocity, attitude, and view GPS for situational awareness
- Airspeed independent, altitude 1000'AGL+
- Detect jamming/spoofing

Multiple Configs & FoV

Cessna O-2A Install

AFRL AgilePod® Install



Reference Moving Map

Flexible / Low SWAP Installation Options

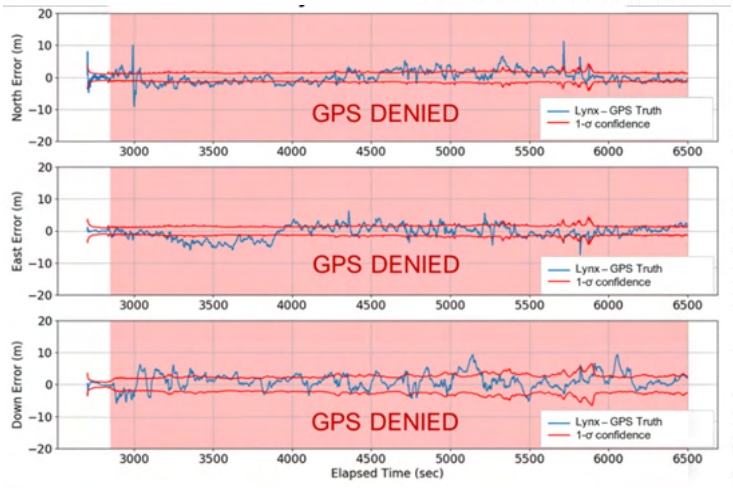
- EO or IR camera (<65 cm3, 60g, <1.6W, -40 to +80c operating range)
- VBN processing module (240 cm3, 190g, <25W)
  - o Host processing available using Docker container support

Interfaces	Protocols
• Ethernet • Serial (TTL / 232/ 422) • ARINC 429	• NMEA 0183 • ASPN • CoT/ATAK • Novatel • Vectornav • MAVLINK

System Performance (Land)

- 10m RMS position (typical)
- 100% GPS denied conditions
- Day / Night
- Up to 80% cloud cover

- Demonstrated on:
  - o Commercial
  - o Military



Mark Glover
Sr. Director,
Business Development
MGlover@aevex.com