



# GPS Denied Navigation Technology

GPS denial and spoofing is no longer science fiction but a realistic challenge for all aircraft platforms in every branch of service. And the usual fixes – M-Code or SAASM receivers don't always meet the size, weight, power (SWaP-C) requirements – or budget – of every platform. Navigation-grade IMUs are an alternative, but again budget doesn't always permit their inclusion as a reliable backup navigation technology.

Enter Psionic, with lidar-based navigation technology which can provide PNT with zero cumulative error rate, and combined with a known starting point provide a SWaP-C backup navigation system to GPS. Utilizing vector velocity, Psionic's sensor provides an absolute measurement of ground speed, direction and altitude for the aircraft.

**Developed by NASA. Technology you can trust.**

Core technology originally developed by NASA for the Mars Lander, Psionic's navigation suite of sensors utilize advanced Doppler Lidar to provide navigational PNT. Available in a small form factor, at different performance configurations, and integratable into various GN&C systems Psionic has a product that can meet your need. For more information email [navigation@psionic.ai](mailto:navigation@psionic.ai). Navigation sensors from Psionic – technology you can trust.

A reliable SWaP-C  
alternative to  
M-Code, SAASM and  
navigation-grade  
IMUs for mission  
critical non-GPS PNT



Advanced. Reliable. Safe.

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