

SNC[®]

Sierra Fusion[™]



Sensor Fusion Software for Multi-Domain Operations

Sierra Fusion is SNC's real-time sensor fusion and augmented 3D world model. It provides a common operating picture to enhance 360° situational awareness, safety, targeting, mission command and networked lethality to air vehicles, ground vehicles and dismounted soldiers in all environments.



FEATURES

- Leverages Technology Readiness Level 9 (TRL9) real-time sensor fusion & 3D world model to provide a common operating picture to enhance 360° SA, safety, targeting, mission command & networked lethality.
- SNC TRAX® software enables a common operation picture by providing a data integration layer to connect all airborne & ground platforms.
- Open architecture supports scalability, sensor upgrades, MBSE & OEM & 3rd party processing enhancements.
- DO-178C DAL C SW, with airworthiness approval for airborne platforms.

Airborne SA highlights flight safety hazards



Opposing force recognized, located & tracked



360° SA for Airborne, Ground & Dismounts

CAPABILITIES

- Works with any sensor & mission equipment
- Reduces cognitive workload of the warfighter with simple meaningful cognitive decision aids

Video Capabilities

- Multi-camera / Distributed Aperture System (DAS) video stitching & fusion
- Object detection, recognition & tracking
- Object 3D location & orientation
- 2D-to-3D conversion

Navigation & Safety

- Assured navigation solution in GPS-denied & degraded environments
- Terrain & Obstacle detection & warning
- Supports safe operations in DVE environments

3D Capabilities

- 3D world model uses wide variety of pre-mission 3D data
- Fusion of real-time 3D sensors (lidar/radar)
- 3D world model augmented by object detection & tracking

AI/ML Data Lake / Pipeline Integration

- Sustain & continuously update fielded capabilities at the edge
- TRL-9 Pipeline is TS/SCI accredited



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