

ALTERNATIVE NAVIGATION VISION AIDED NAVIGATION

Honeywell's Vision Aided Navigation provides GPS-denied navigation capabilities using an image correlation algorithm. This approach offers several advantages, including sensor agnostic operation, frequent measurements, and very low map storage requirements.

Target applications/markets:

- GPS Denied/Disrupted Operations
- Backup Navigation for various aircraft
- Munitions guidance

Honeywell advantages

- Sensor agnostic with cross-modal correlation
- Optimized for embedded platforms
- Robust to environmental and lighting changes, as well as map staleness
- Supports platform/mission versatility and supports future expansion to other sensor modalities
- TRL 7 demonstration units currently available



TECHNOLOGY BENEFITS

- Ability to use a variety of sensors to best fit the environment and use case
- Ability to store entire map for large areas and avoid selecting custom database for each mission
- Passive Technology
- Day and Night Operations
- Robust to changes in lighting and conditions, as well as map staleness
- True absolute position fix, will not drift over time
- Resistant to Jamming/Spoofing

SPECIFICATION

Size	14x21x25 cm
Weight	13 Lbs
Power Consumption	34 W max (28V DC input)
Operating Temperature Range	-40° C to 70° C
Inputs	28V DC; Altitude measurement (Pressure/Radar altimeter)
Interfaces	Ethernet; 1553
Vibrations	Random B vibration curve – reference DO-160E section 8
Performance	Demonstrated position accuracy of < 10m CEP50

For more information

Visit us at: <https://aerospace.honeywell.com/en/learn/products/sensors/alternative-navigation-systems>

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