Auterion

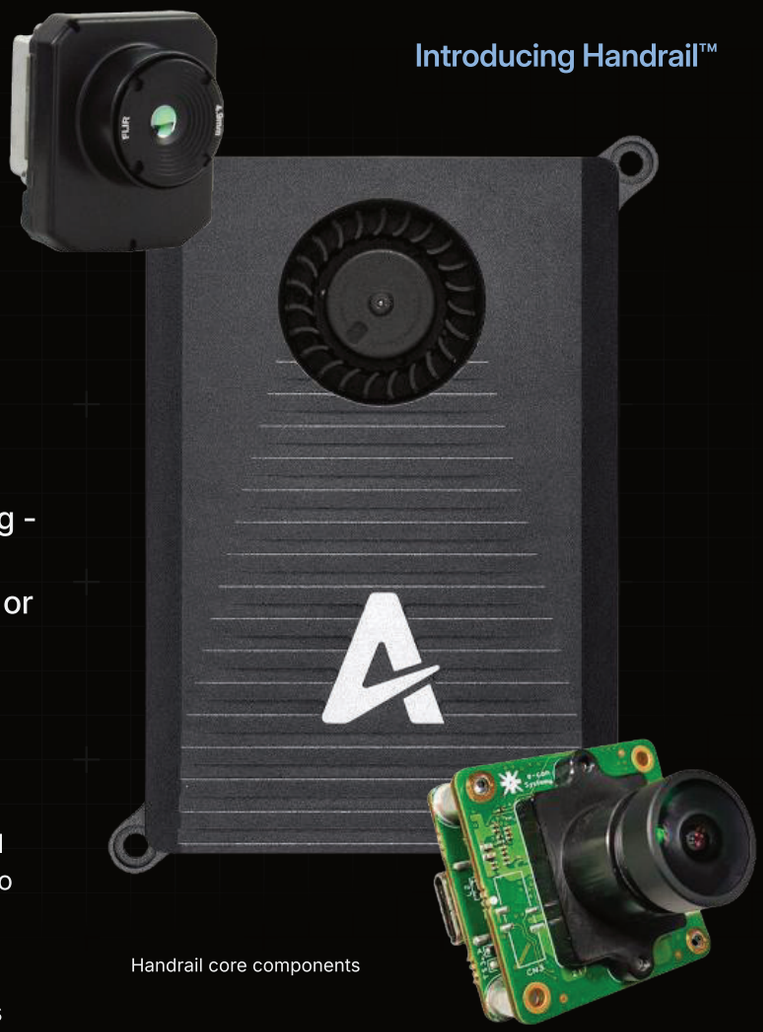
Introducing Handrail™

Visual Navigation for Skynode™ powered vehicles

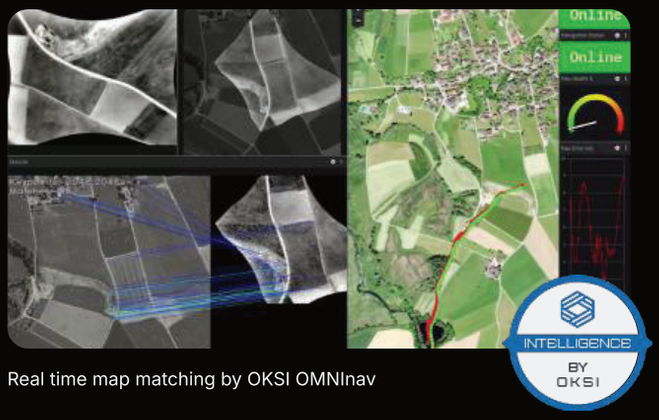
Anyone who's been through a military land-nav course knows about a technique called handrailing - using prominent terrain features as a handrail to simplify route-finding, instead of relying on GNSS or dead reckoning.

Handrail™ is a complete GNSS-denied visual navigation solution for drones powered by Auterion Skynode™.

- ✓ Ships with OMNInav by OKSI
  Visual navigation software that provides a multi-modal model using SLAM, VIO, and map matching is robust to outdated imagery, seasonal changes, and battlefield scarring
- ✓ Delivers high-precision absolute global position inputs for completely GNSS-denied operations
- ✓ Operates in both day and night conditions (with optional LWIR camera)
- ✓ Performant at low altitudes up to 15,000 feet
- ✓ Seamlessly upload satellite maps directly through Auterion Mission Control for a user-friendly experience
- ✓ Ships with worldwide high-resolution elevation data; end users never need to manage elevation data



Handrail core components



Real time map matching by OKSI OMNInav

The Handrail kit includes

- ✓ Auterion AI Node ONX, our latest AI Node variant powered by NVIDIA Orin NX 16Gb
- ✓ EO navigation camera
- ✓ Optional LWIR navigation camera for night operations
- ✓ Complete software package consisting of AuterionOS apps from Auterion and OKSI
- ✓ Integration guidance from Auterion
- ✓ AuterionOS, enabling the possibility to run other third-party apps for navigation or other use cases



Tight integration into Auterion Mission Control. GPS and visual navigation position estimates are both shown on the map, with intuitive operator controls over the navigation solution