

ION - Indoor Outdoor Navigation Overview

Powered by Hidonix Industries

ION is Hidonix's end-to-end platform for high-accuracy indoor positioning, mapping, navigation, and real-time location tracking. The system is built on a fully proprietary technology stack that captures a structure's natural geomagnetic signature to generate accurate 2D and 3D maps through ION's CMS.

Mapping can be performed using ION's acquisition app or Hido II, an autonomous rover designed and developed from the ground up by Hidonix to navigate complex environments and collect geomagnetic data efficiently. Once a space is mapped, ION enables navigation services for end users, while businesses can leverage the platform for real-time location tracking.

Tracking can be performed either through smartphones running a white-label ION app or via dedicated tracking devices, including tags and wearable form factors, depending on the use case and deployment requirements.

Designed to be industry-agnostic, ION can be deployed across environments such as hospitals, schools, shopping centers, mining sites, and large office buildings, enabling applications including user navigation, asset and personnel tracking, and spatial analytics.

ION is built for scalability and flexibility, supporting B2B partners looking to deploy or integrate location intelligence into their existing ecosystems.