



INTERNAV® CHF GPS LOCATION & TRACKING

➤ FEATURES AT A GLANCE

- Asset tracking and map location
- Manual and automatic polling
- Emergency and safety event log
- Collision and proximity detection
- Corridor zoning
- Vehicle Telemetry
- Logging and playback
- Full system integration



Internav® CHF is an Automatic Vehicle Location and Tracking system that uses Navstar Global Positioning System (GPS) and CODAN™ HF Transceivers to exchange position data between mobile stations and a central control station. The MS Windows™ based tracking software, located at the control station, acquires position data from selected mobile stations and then plots their positions on a computer based map.

Codan's High Frequency (HF) Transceiver technology coupled with the powerful Internav® CHF application provides a sophisticated but cost effective solution for mobile asset management.

TRACKING

Internav® software may be configured for automatic or manual polling of remote mobile assets. Mobile stations may also send their GPS position details to the tracking base station. Once the position data is received, a user-selectable icon identifies the mobile station's position on a customer defined map on the computer display. Sequential acquisition of a given mobile station's position may be displayed as individual points or shown as a track to show overall progress of the station. Internav® has the capacity to track up to 100 mobile stations.

Map information may be scanned into the program from hardcopies or registered directly as electronic files in raster or vector format. Multiple maps of the same area but of different scales may be registered to achieve the necessary resolution of geographic position.

PROXIMITY DETECTION

Internav® provides a full range of proximity detection methods to ensure maximum situational awareness at all times. The system will provide a warning when mobile stations enter user-defined restricted areas (alarm zones), when they are outside designated safety areas (corridor zones) or when they approach designated waypoints (waypoint proximity). Map areas may also be defined where proximity detection is disabled (blind zones).

TELEMETRY

When a mobile station position is received, its speed, distance, bearing and ETA to a waypoint destination can be displayed with the position icon on the map display. Conversely, if a mobile station experiences trouble or encounters an emergency situation, they can initiate an Emergency call from the CODAN™ HF Transceiver and trigger an alarm status on the Internav® application at the tracking station.

LOGGING

Internav® CHF has the capability to record all safety and emergency events into a log file as well as record all mobile station travel activity for a given period of time. These log files can provide critical information for incident investigation and reporting.

SYSTEM INTEGRATION

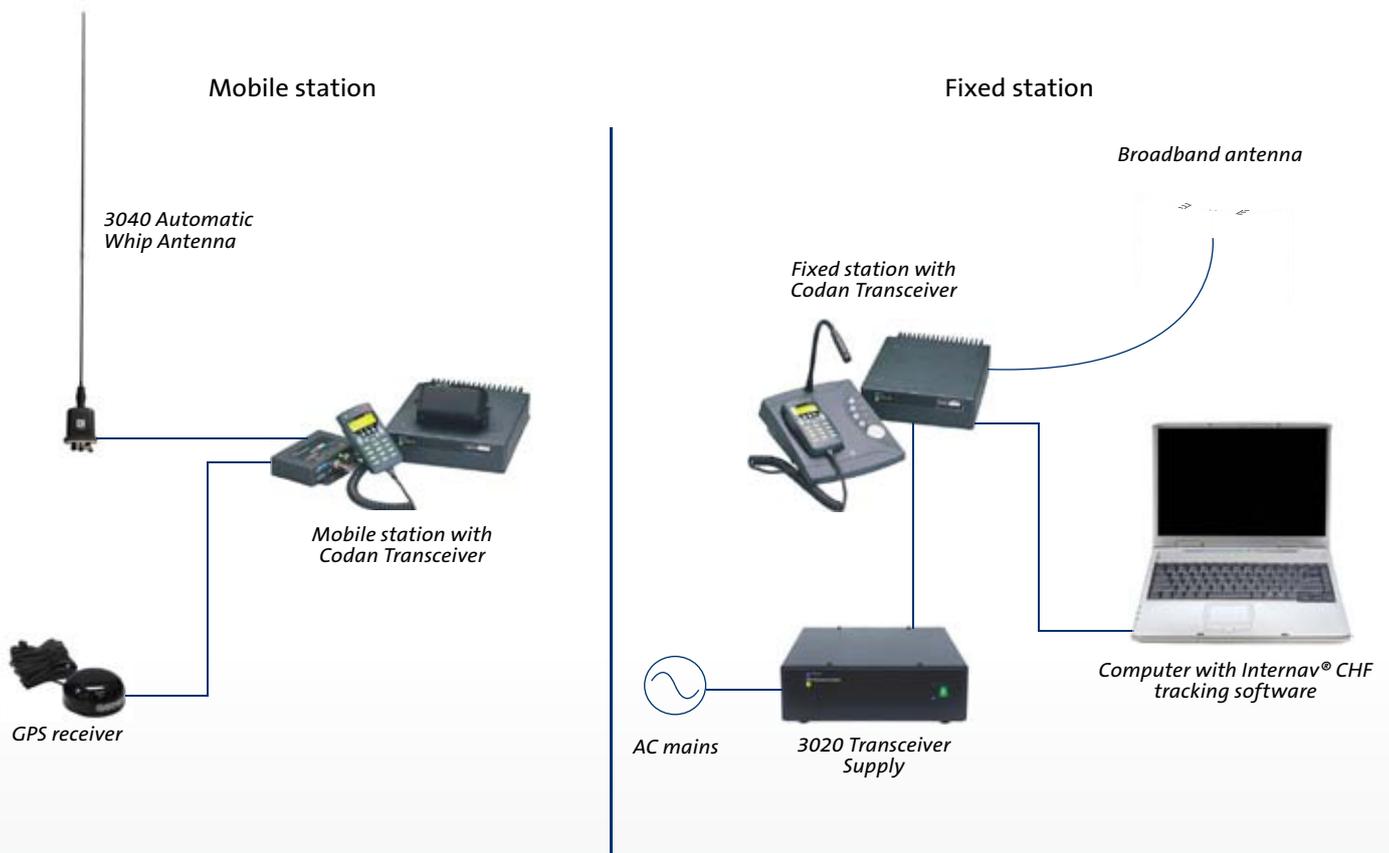
The Internav® CHF application is designed to fully integrate with the Selcall and Automatic Link Establishment (ALE) call capabilities of CODAN™ Transceivers. This high level of integration enables the HF linking required to acquire GPS position data to be transparent to core operations, which simplifies operation and increases tracking efficiency.

Internav® CHF includes a virtual “transceiver console” which extends transceiver control to the computer screen. Important transceiver capabilities such as Message, Status, and Emergency calls, as well as receiver scan and mute status, can all be accessed from the computer. This provides the operator with a very high level of overall system control.

MINIMUM SYSTEM REQUIREMENTS

- Pentium III processor
- 256 MB RAM, 512 MB recommended
- MS Windows™ NT, 2000, XP or higher
- 1 serial communications port
- 1 USB port
- SVGA 1024 x 768 high colour graphics card
- CD drive
- 100 MB hard drive

SYSTEM DIAGRAM



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Values noted are typical. Equipment descriptions and specifications subject to change without notice or obligation.



RADIO COMMUNICATIONS