

## 977 HF vehicle tracking system

The Barrett 977 HF tracking system is an automatic vehicle locating and tracking package which utilises the Navstar Global Positioning System (GPS) and an HF network consisting of a central control station and mobiles. The computer based tracking system, located at the control station, automatically polls vehicles or vessels within the HF network, retrieving their position using a standard selcall format based on CCIR493-2. The position of the vehicle or vessel being tracked is then displayed on a computer based map.

The control station consists of a PC loaded with the Barrett 977 HF vehicle tracking software connected to a Barrett 950 transceiver. Vehicles or vessels to be tracked are fitted with a Barrett 950 transceiver equipped with a receiver.

### Features:

Monitors, tracks, follows or finds vehicles on maps stored in the control station computer.

Reports alarm conditions immediately upon receiving a distress signal issued by any vehicle or vessel and automatically displays its location on the appropriate map.

Warns when vehicles or vessels approach a user defined exclusion zone.

Vehicle or vessel positions can be recorded for later playback and analysis.

Provision to read and update textual information about specific locations on the map (way points).

Way points are colour coded dots which are placed on the map by the user.

Provision to retrieve and store textual information about every vehicle or vessel in the fleet.

Displays the current mobile position as an icon, continuous track or a trail of points.

Clicking on a trail point will display the selcall ID, date, time latitude and longitude.

Telemetry displays the mobile selcall number, speed, distance, calculated arrival, time bearing to a selected destination, which can be a location on the map or the location of another mobile.

Maps can be scanned by the customer using an A4 flat bed scanner and registered using the inbuilt registration system in the tracking software.

Displays distances in metres, kilometres or nautical miles.

System accuracy in the order of 15 to 30 metres (when subject to the effects of selective availability 100 meters).

Transceiver function access which includes page call, status call and the ability to control most main transceiver functions from the computer screen.

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### SYSTEM COMPONENTS

#### Central Control Station:

Barrett 950 Local Control HF Transceiver with RS-232 option for transceiver (BCO95003)  
 Barrett 922 Power Supply Unit  
 Suitable control station antenna - (i.e.. Barrett 912 Broadband Antenna)  
 Barrett 977 tracking package (which includes cables from computer to receiver)  
 Computer with a minimum hardware specification as follows:-

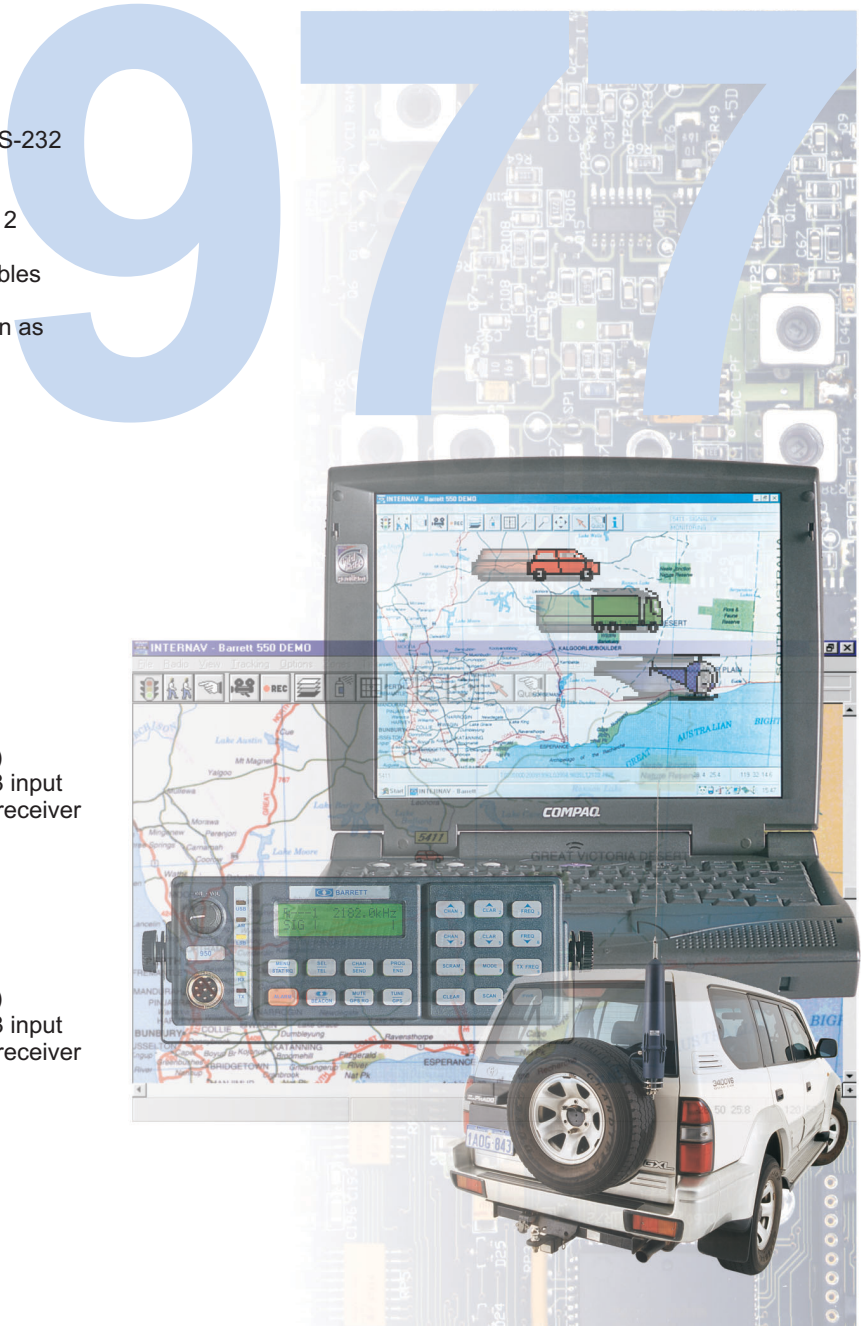
- 486 DX2/66 MHz minimum
- 8 Mb RAM minimum
- MS Windows 3.1, 3.11, NT, 95
- 2 serial communication ports
- 1 parallel port
- SVGA (1024 x 768 x 256) graphics card
- 1 1.44 HD 3.5" diskette drive
- 100 Mb HDD
- Serial mouse

#### Vehicle Equipment:

Barrett 950 Remote Control HF Transceiver.  
 GPS software option (BCO95002 or BCO95003)  
 GPS receiver - either external using NMEA 0183 input on transceiver or using Barrett BCA90048 GPS receiver module.  
 Barrett 910 Automatic Tuning Mobile Antenna.

#### Vessels:

Barrett 950 Local Control HF Transceiver.  
 GPS software option (BCO95002 or BCO95003)  
 GPS receiver - either external using NMEA 0183 input on transceiver or using Barrett BCA90048 GPS receiver module.  
 Barrett 911 Automatic Antenna Tuner.  
 Suitable whip or long wire antenna.  
 Barrett 922 Power Supply Unit (if 13.8V DC not available).



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Dealer Stamp

