

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 950/2050 transceiver. Vehicles or vessels to be tracked are fitted with a Barrett 950/2050 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.

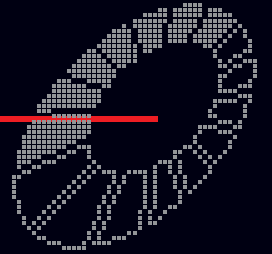
System accuracy in the order of 15 to 30 metres (when subject to the effects of selective availability 100 metres).

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





BARRETT COMMUNICATIONS
ADVANCED **HF SSB** EQUIPMENT



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System Components

Central Control Station

Barrett 950/2050 Local Control HF Transceiver with RS-232 option for transceiver (BCO95003)
Barrett 922/2022 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:-

- At least a Pentium 3 or Celeron processor and at least 256 Mb of RAM
- Windows XP
- 1 serial communication port
- 1 parallel port
- SVGA (1024 x 768 x 256) graphics card
- 20 Gb HDD
- Mouse

Vehicle Equipment

Barrett 950/2050 Remote Control HF Transceiver
GPS software option for 950 (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 950/2050 Local Control HF Transceiver
GPS software option for 950 (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 922/2022 Power Supply Unit (if 13.8V DC not available)



Head Office:

Barrett Communications Pty Ltd P O Box 1214, Bibra Lake WA 6965 AUSTRALIA
Toll Free Tel: 1800 999 580 Tel: +618 9434 1700 Fax: +618 9418 6757
email: information@barrettcommunications.com.au
internet: www.barrettcommunications.com.au

European Office:

Barrett Europe Limited, Unit 9, Fulcrum 2, Victory Park,
Solent Way, Whiteley,
PO15 7FN UNITED KINGDOM
Tel: (44) 1420 542254 Fax: (44) 1420 543373

Americas Office:

Barrett USA LLC 15941 W. 65th Street
Suite 373, Shawnee, Kansas 66217 USA
Tel: +1 913 322 6231 Fax +1 913 273 0779
email: information@barrettusa.com

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