

# NGT AR transceiver

The NGT AR is a comprehensive solution to your communication needs. While incorporating all the usual features of Codan's leading-edge High Frequency (HF) radio technology, this transceiver also features a user-friendly handset, advanced calling features and Easitalk as standard. Extensive Codan Automated Link Management (CALM) capabilities (where permitted), GPS, fax, data and email transmission are optional.

## KEY FEATURES

### Innovative handset

The handset can access all programming procedures in a convenient and consistent manner. It provides an advanced interface, more efficient operation and easier network management.

The handset supports varied requirements ranging from traditional manual voice operation, to sophisticated CALM-reliant calling procedures.

Users can program channels, functions and addresses into the handset to meet their own requirements. These functions can then be accessed via a series

of hot keys. A built-in address book can store up to 100 addresses that can be easily retrieved via the menu.

The handset may be mounted in any position that makes viewing easier. The handset provides a comprehensive display of information.

### RFDS emergency tone call

The NGT AR has an emergency calling facility. A distress signal can be sent automatically to selected stations.

### Emergency selcall

(Optional) The NGT AR has a unique emergency calling facility. A distress signal can be sent automatically to selected stations.

### Multiple channels

The NGT AR has a capacity for 400 channels.

### Smart monitoring

A variety of channels can be monitored while the radio is muted, and calls can be received on any of the channels being scanned.

### Testing and protection

All Codan transceivers are fully protected from faults such as antenna damage, overvoltage and reverse polarity, which can destroy other transceivers. A three year warranty is available to every registered user.

## OTHER FEATURES

### RF gain

Selectable RF gain control provides better reception in difficult conditions.

### Computer control

The NGT AR can be controlled by a computer through an RS232 port. This assists with paging, GPS tracking and logging, and other automated applications.

### Fax, data, email and internet

Facsimile and other data transmissions can be sent by connecting a 9001 HF Fax and Data Interface to your transceiver. Data-only transmissions are possible using a 3012 HF Data Modem. To use email and internet facilities, a user must have access to a properly equipped internet/email server.



NGT AR in fixed station

## ADVANCED FEATURES

### CALM/ALE

(Optional) Codan Automated Link Management (CALM) is compatible (where permitted) with existing FED-STD-1045 ALE systems.

CALM optimises system performance by removing the need for the operator to select the best channel. CALM develops a profile of channel characteristics over time that enables it to select a suitable channel at any time of day, even if the unit has only recently been switched on.

New stations are recognised automatically by the automated network management. CALM uses its knowledge of the station types (fixed or mobile) to optimise channel selection. Up to 10 channels per second can be scanned.

### Easitalk

The NGT AR uses Digital Signal Processing techniques to process received audio signals to minimise the effect of interference and reduce noise. Easitalk is simple to operate and extensive testing has shown that its performance is not affected by the language of the user.

### BITE

Built-In Test Equipment (BITE) is a process that can be initiated by the user to test and report on certain aspects of the system's performance.

### Calling facilities

The NGT AR has selective calling (selcall), telephone calling (Phone call) and message paging (Message call). All incoming calls are time-stamped to identify precisely when each call arrived.

**Selcall:** Selcall gives users more flexibility. An operator can call a single transceiver and only that unit will respond—no more listening to noise while waiting for a call. The called transceiver will also signal that the message has been received.

**Message call:** With Message call you can send or receive text messages of up to 64 characters; an external computer is not required. Messages can be encrypted and successful transmissions will be confirmed.

**Phone call:** This function enables the transceiver to make telephone calls via suitable bases equipped with a telephone interconnect.

### Remote diagnostics

With Remote Diagnostics your radio installation can be tested remotely by another station to measure parameters such as signal strength, battery voltage levels and power.

Your radio will automatically transmit its performance parameters to a technician who can determine whether servicing or support is needed.

### GPS

(Optional) A GPS satellite receiver can be connected to the transceiver to enable the following functions:

- a live display of your current GPS position by latitude and longitude
- transmission of your position to another unit
- the ability to request the position of another unit

When used with tracking software, the GPS option provides a complete tracking system to enhance safety. In addition, a security PIN can be used to scramble GPS data so that positions are available only to authorised users.

## SPECIFICATIONS

Frequency range	Transmit: 1.6–30 MHz Receive: 250 kHz – 30 MHz
Channel capacity	400 channels
Operating mode	Single sideband (J3E, USB)
Transmitting power output	100 watts PEP
Primary voltage	12 V DC nominal, negative earth
Primary power	Receive (no signal): 1 A Transmit: J3E voice: 9 A J3E two-tone: 10–14 A
Temperature	–30°C to +60°C
Size and weight	2010 RF Unit: 210 mm W 270 mm D x 65 mm H; 3.3 kg 2020 Handset: 65 mm W x 35 mm D x 130 mm H; 0.3 kg 2030 Junction Box: 135 mm W x 117 mm D x 38 mm H; 0.4 kg
Computer interface	RS232, 300–19200 baud
GPS interface	NMEA-0183 (4800 baud, RS232)
Shock and vibration	Meets or exceeds MIL-STD-810E

## OPTIONS / ACCESSORIES

Option	Purpose
AM	H3E AM transmission
CALM	Codan Automated Link Management
E	Emergency call
F	Fan for continuous data transmission
GPS	GPS interface



NGT AR in mobile station

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