

# HF Manpack Military Tactical Transceiver Codan 2110M,NATO Standard

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The right solution for you

Codan 2110M HF Manpack Military Tactical Transceiver are all purpose, fully self contained manpack radios. They are designed to meet your long distance and remote communications needs while on the move, and can quickly be deployed. The 2110M features frequency hopping that assures your communications remain private. Transceiver has NATO NSN 5820-99-602-7549

We've gone to great lengths to ensure our manpacks are extremely light, rugged, comfortable to carry, and packed with easy to use features. They are ideal for all types of terrain and weather conditions. With a range of antennas, backpacks and battery types, the 2110M can be configured to suit your mission.

### **Built to last**

Codan radios are famous for their ruggedness and reliability, and the 2110M is no exception. They are the most rugged radios we've ever built and comply with the toughest environmental standards including MIL-STD-810F. The radio and battery compartment are completely waterproofed and can be fully immersed.



## Intelligent battery management

A radio's battery management system and mission life lie at the heart of successful portable communications. That's why Codan's 2110M delivers the lowest current consumption available so you can operate continuously on a single battery charge for many days. Our Intelligent Battery Management System cleverly monitors and displays the battery capacity and condition, and also protects the battery by preventing it from being overcharged. Battery protection reduces your ongoing costs by extending battery life even further and removes the need to carry extra batteries.

## Communications made easy

The 2110M shares a common friendly user-interface with Codan's NGT series transceivers, which minimises [AT Communication](#)  from ongoing communication expenses. They operate seamlessly with our NGT series, plus other commercial and military grade radios.

Our manpack radios also feature a fully integrated fast antenna tuner that automatically selects tuning mode antenna types and initiates the tuning cycle. With Codan's large and clear operating display, self-test capabilities, and advanced calling facilities, the 2110M is easy to operate and maintain for any user.

## Superior support

Codan 2110M is backed by a renowned worldwide support network and an industry leading three year warranty.

## Key Features

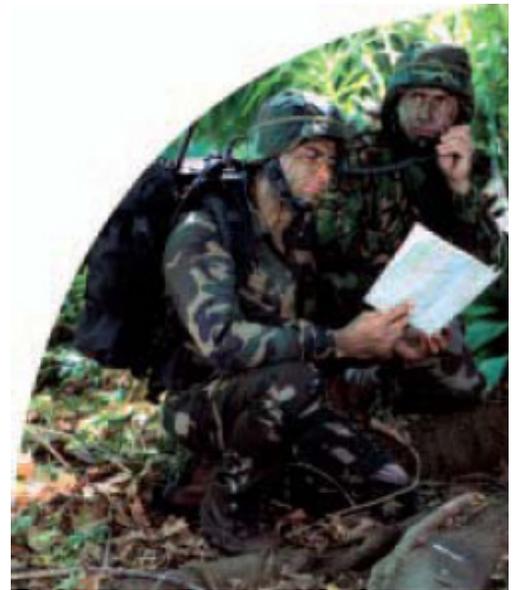
### True Manpack

- ✓ Lightweight, rugged and waterproof design for voice and data communications
- ✓ Operate for many days on a single battery charge

### Excellent Radio Performance and Features

- ✓ User-friendly interface, large and clear operating display, and internal front panel speaker
- ✓ Easy one key access to primary or preconfigured functions
- ✓ Advanced calling facilities:
  - ✓ Selective call

- ✓ Phone call
- ✓ Message call
- ✓ GPS Position calls
- ✓ Over-The-Air remote disable and configuration capabilities



- ✓ Interoperable with other commercial radios
- ✓ Interoperable with military grade radios
- ✓ FED-STD-1045 ALE option, plus Codan's advanced ALE (CALM)
- ✓ MIL-STD-188-141B ALE
- ✓ Integrated fast automatic antenna tuner
- ✓ DSP Noise Reduction - Easitalk®
- ✓ High quality, integrated Voice Encryptor option for secure communications
- ✓ Integrated GPS Receiver option

#### Low Cost of Ownership

- ✓ Up to 50 hours battery life, plus Intelligent Battery Management System for low operational costs
- ✓ Software update capability to protect your investment
- ✓ Easy to use, minimum training required

#### No Risk!

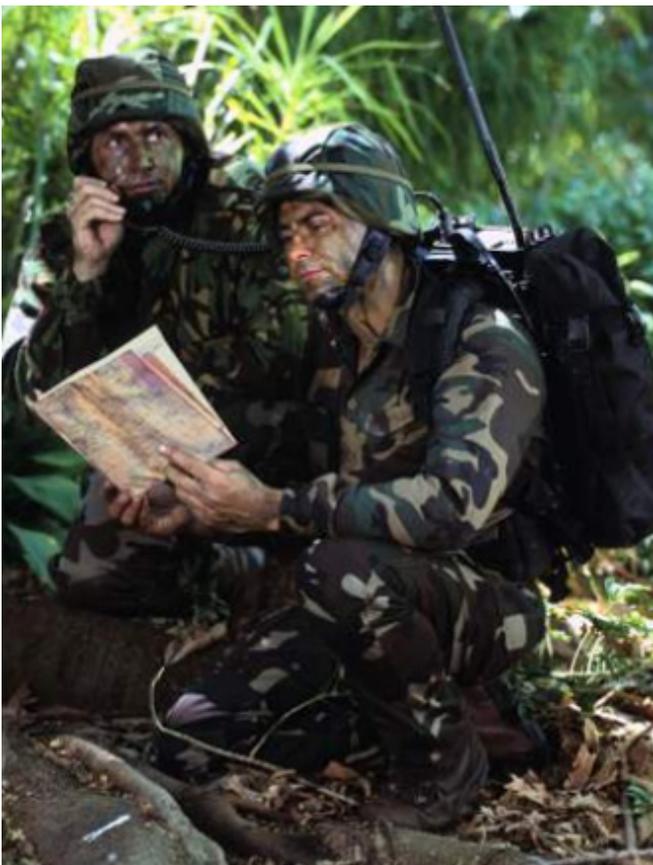
- ✓ Codan's renowned reliability, worldwide support and three year warranty

#### Worldwide industry standards and advanced ALE

The 2110M Transceiver fully complies with a large number of international standards including CE, FCC and NTIA radio type approvals, MIL-STD-810F environmental standards, FED-STD-1045 ALE, and JITC certified MIL-STD-188-141B ALE. The 2110M also complies with MIL-STD-188-141B ALE. In addition, Codan's advanced ALE technology (CALM) outperforms conventional ALE systems with a faster scan rate and 24 hour based Link Quality Analysis, which automatically selects a suitable channel from the moment the radios are switched on and reduces sounding activity.

#### Protect your communications and your investment

With Codan's internal SAFE voice encryption option and frequency hopping, the 2110M Transceiver ensures sensitive information is communicated in confidence. The 2110M can also accommodate new capabilities and support future upgrades, ensuring you'll always get the most from your investment.



**Technical specifications**

**General**

|                              |   |
|------------------------------|---|
| Frequency Range              | 1.6 to 30 MHz Tx, 250 kHz to 30 MHz Rx  |
| Channel Capacity             | 600 channels, 20 networks with MIL-STD-188-141B ALE option  |
| Scanning                     | Configurable up to 8 channels per second  |
| Frequency Stability          | $\pm 0.5$ ppm ( $-30$ to $+60^{\circ}\text{C}$ )  |
| Power Source                 | 12 V DC (10.8–15 V operational)   |
| Modes                        | Voice/CW, USB/LSB (J3E), AM, AFSK (J2A)   |
| Operating Temperature Range  | $-30^{\circ}\text{C}$ to $+60^{\circ}\text{C}$  |
| Size                         | Transceiver 245 mm x 250 mm x 92 mm,<br>with battery 245 mm x 350 mm x 92 mm  |
| Weight                       | Transceiver 2.5 kg (4.6 kg with 8 Ah NiMH battery)  |
| Environmental                | Per MIL-STD-810F including shock, vibration, humidity, immersion (1 hr at 1 m), altitude, fungus, salt fog, sand and dust, blowing dust, and rough handling |
| Cooling                      | Convection from case  |
| Transceiver Conformance      | Exceeds or meets requirements of AS/NZS 4770:2000, AS/NZS 4582:1999, CE, NTIA and FCC<br>Per MIL-STD-188-141B (required for ALE)                            |
| RF Input/Output Impedance    | Whip/long wire antenna via internal Automatic Antenna Tuner, or 50 $\Omega$ nominal using 50 $\Omega$ antenna port  |
| Interfaces                   | Serial RS232  |
| A/F Power and A/F Distortion | Internal speaker; 1 W into 8 $\Omega$ , 5% THD<br>External speaker on GPIO connector; 2 W into 4 $\Omega$ , 5% THD  |
| Approximate Battery Life     | $\sim 50$ hr (13 Ah NiMH), voice 10% duty cycle   |

## Transmitter

|                 |  |
|-----------------|--|
| Power Output    | 25 W PEP (High)/5 W PEP (Low) selectable                       |
| Duty Cycle      | Continuous power output<br>with over temperature protection    |
| Audio Bandwidth | 350 to 2700 Hz (narrow filter)<br>300 to 3000 Hz (wide filter) |

## Receiver

|                   |  |
|-------------------|--|
| Operating Current | 120 mA typical (speaker muted)   |
| Sensitivity       | 0.12 uV for 10 dB SINAD  |
| Mute              | Syllabic Voice Detect  |
| Audio Output      | Handset: via 6-way connector<br>Internal Speaker: selectable on or off<br>External Speaker: via 19-way connector |

## Frequency Hopping

|                   |  |
|-------------------|--|
| Hop Rate          | 6/12/25 hops per second                        |
| Hopping Bandwidth | 1% of nominal frequency up to 200 kHz          |
| Hopping Keys      | 128-bit user programmable                      |
| Synchronisation   | Internal Encryption Synchronisation Unit (ESU) |

## Antenna Tuner

|        |   |
|--------|---|
| Tuning | 2.5s typical first tune (fully automatic),<br>50 ms for memory recall<br>Last tune stored for 100 frequencies |
|--------|---|

## Options

- Frequency Hopping
- FED-STD-1045 ALE (CALM)
- MIL-STD-188-141B ALE
- Internal GPS Receiver
- Voice Encryption
- Narrow/Wide Band Filter

## Antennas

- Tape Whip, 1.5 m
  - Knock Over Whip, 1.5 m
  - Collapsible Whip, 3 m
  - Long Wire and Adaptor
  - End-fed Broadband
-

- ✓ Broadband Dipole
- ✓ Wire Dipole
- ✓ Dipole and Broadband kit

### **Batteries & Chargers**

- ✓ 13 Ah NiMH
- ✓ AC and DC Battery Chargers
- ✓ Solar Panels
- ✓ Handcrank Generators

### **Plus Various Backpacks**



### **HF Military Tactical Radio- Frequency Hopping- HF Transceiver**