

Codan 2110 Manpack Transceiver



Key Features

True Manpack

- Lightweight, rugged and waterproof design for voice and data communications
- Operates for several days on a single battery charge

Excellent (Codan!) 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 and military grade radios
- FED-STD-1045 ALE and MIL-STD-188-141B ALE options, plus Codan's advanced ALE (CALM)
- Integrated fast automatic antenna tuner
- DSP Noise Reduction—*Easitalk*®
- Integrated GPS Receiver option
- High quality, integrated voice encryptor option for secure communications

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

The right solution for you

Codan's 2110 SSB transceiver is an all purpose and fully self contained manpack radio. It is designed to meet your long distance and remote communications needs while on the move, and can quickly be deployed.

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



Built to last

Codan radios are famous for their ruggedness and reliability, and the 2110 is no exception. It's the most rugged radio we've ever built and complies 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 2110 delivers the lowest current consumption available so you can operate continuously on a single battery charge for several 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

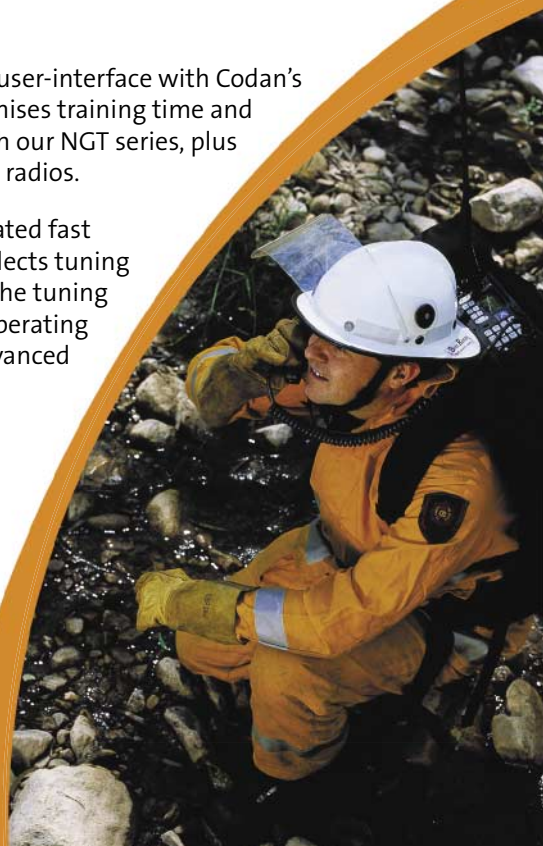
The 2110 shares a common friendly user-interface with Codan's NGT series transceivers, which minimises training time and expenses. It operates seamlessly with our NGT series, plus other commercial and military grade radios.

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

Superior support

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

HF to the extreme



Codan 2110 Manpack Transceiver

Worldwide industry standards and advanced ALE

The radio fully complies with a large number of international standards including CE and FCC radio type approvals, MIL-STD-810 environmental standards, and both FED-STD-1045 ALE and 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 radio is switched on and reduces sounding activity.



Protect your communications and your investment

With Codan's Voice Encryptor option, the 2110 uses SAFE voice encryption technology to ensure sensitive information is communicated in confidence. The 2110 also has the capacity to accommodate new capabilities and support future upgrades, ensuring you'll always get the most from your investment.

Specifications

General

Frequency Range	1.6 to 30 MHz Tx, 250 kHz to 30 MHz Rx
Channel Capacity	400 channels, 10 networks (600 channels, 20 networks with MIL-STD-188-141B ALE option)
Scanning	Configurable up to 8 channels per second
Power Source	12 V DC (10.8–15 V operational)
Battery Pack	Sealed pack utilising Sealed Lead Acid or NiMH
Modes	Voice/Data/CW, USB, LSB, AM, AFSK
Operating Temperature Range	–30 to +60°C
Size	Transceiver 245 mm x 250 mm x 92 mm, 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) and rough handling
Transceiver performance	Per MIL-STD-188 (required for ALE)
Interfaces	Serial RS232 and Infrared (IrDA)

Transmitter

Power Output	25 W PEP (High)/5 W PEP (Low) selectable
Duty Cycle	Continuous power output with over temperature protection
Audio Bandwidth	350 to 2700 Hz

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 Internal Speaker: selectable on or off External Speaker: via 19 way connector

Antenna Tuner

Tuning Time	2.5 s typical first tune (fully automatic) 50 ms for memory recall
Tuning Memory	Last tune stored for 100 frequencies

Options

- FED-STD-1045 ALE (CALM)
- MIL-STD-188-141B ALE
- Internal GPS Receiver
- Voice Encryption
- Morse Code
- Narrow/Wide Band Filter
- 0.5/1.5 ppm Frequency Stability

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

- 12 V 8 Ah NiMH
- 12 V 13 Ah NiMH
- 12 V 7 Ah SLA
- Battery Charger AC–DC 3121
- Battery Charger DC–DC 3122

Plus Various Backpacks

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