

# TECHNICAL SPECIFICATIONS

FREQUENCY RANGE	Tx	1.6 to 30MHz
	Rx	250KHz to 30MHz
POWER OUTPUT	30 W RF± 1dB (two-tone or voice), user-programmable in 1W steps (low/medium/high)	
CHANNELS	Up to 1000 entries	
CONTACTS	Up to 500 entries	
HF NETWORKS	Up to 20 networks (simultaneously scanning)	
LANGUAGE SUPPORT	English, Spanish, Russian, Chinese, French, Arabic, Dari, Pashto and Portuguese	
WAVEFORMS	Digital Voice (MELPe/TWELP) Selcall	
	FED-STD-1045; MIL-STD-188-141B; STANAG 4538 3G ALE MIL-STD-188-110A/B (STANAG 4539) data ECCM	
ENCRYPTION	CES-128 voice and AES-256 digital voice and data	
SIZE	284mm (without handles, 324 with handles) x 246 mm x 96 mm (L x W x H) including battery compartment	
WEIGHT	Less than 5 kg including battery	
TEMPERATURE RANGE	Operational at -30 to +60°C; 95% RH maximum, non-condensing	
ENVIRONMENTAL STANDARDS	MIL-STD-810G (Immersion, Shock, Drop, Vibration, Humidity, High temp, Low temp, Blowing Dust, Salt Fog, Fungus, Contamination, Altitude)	
PRODUCT TYPE NUMBERS	RF Unit: 2410, Smart Handset (optional): 2320	

# CONFIGURATIONS



The Sentry-H 6110-MP radio is fully customisable to your specific mission requirements with software enabled capabilities and a wide range of peripherals and accessories.

MANPACK

# SENTRY-H 6110-MP

## OUR PROCESS

Solving challenging requirements is what we do best



### ASSESS

Our technical consultants will conduct a detailed on-the-ground assessment of:

- Human needs
- Operational environment
- Opportunities and challenges
- Cultural context
- Scenario planning



### DESIGN

Our field service team will then design a custom solution for those challenges, using the right hardware and software from Codan or one of our technology partners.



### DEPLOY

Our specialist logistics team gets the hardware and the resources to wherever you are, getting your system up and running fast.



### TRAIN

We'll train operators and communications staff on how to use the system – which will be a short process, thanks to our easy-to-use interfaces and interoperability.



### SUPPORT

We're available to be deployed within 24 hours for any support required. And we're always on hand for any advice you require.

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## CONTACT US

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## CHALLENGING REQUIREMENTS? NO PROBLEM

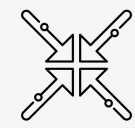


Codan's Sentry-H 6110-MP delivers a rugged man-portable Software Defined Radio (SDR) solution for military organisations that demand uncompromised, secure voice and data communications, while on the move.



### COMPACT AND LIGHTWEIGHT

The 6110-MP sets a new standard for size and weight for HF manpack radios with ruggedness and reliability as a focus. It weighs less than 5 kg including battery, with one of the smallest form factors available.



### HIGH POWER

The 6110-MP packs a full 30W RF power output in a high efficiency SDR platform that can deliver up to 55 hours of battery run time. With extremely clean transmit signal and industry leading receiver performance, the 6110-MP provides exceptional HF communications clarity.



### EXCEPTIONAL DIGITAL AND ANALOGUE VOICE CLARITY

Codan's Digital Voice technology provides significantly reduced hiss, crackle, pops, and multipath effects typical of HF, enabling voice quality similar to modern cellular phones.



### INTELLIGENT PERFORMANCE

Codan 6110-MP's internal SDR architecture comprises the latest-generation high-performance Digital Signal Processor (DSP), Field Programmable Gate Array (FPGA), and system on chip (SoC) technology devices. It provides exceptional performance, and future upgradability via IP connectivity over Ethernet/Wi-Fi and USB.



### SECURE COMMUNICATION

The 6110-MP ensures your information and team remains safe and secure through use of AES-256 bit encryption applied to data transfers, digital voice and 3G ALE. An option for internal frequency hopping is provided to prevent third party interference and monitoring and keep your intel safe.



### INTUITIVE OPERATION

Codan knows that when lives are on the line, operation of the radio must be second nature. The 6110-MP provides an intuitive user interface that can be switched into various languages for fast and instinctive control.

## YOUR CODAN 6110-MP SOLUTION

### POWER SOLUTIONS

#### BATTERIES

The 6110-MP is designed to operate from standard military off-the-shelf BB-2590 style batteries, capitalising on latest technology advances and supply flexibility.

#### CHARGERS

A range of battery charging accessories are available from Codan, including those that can operate AC mains, DC and solar power sources.

The military standard battery compatibility of the 6110-MP provides an added advantage of being able to use the wide range of MOTS charging accessories that are now available.

### DATA

#### EMAIL/FILE

Codan offers various solutions for email and file transfer for both HF and web based communications.

#### CHAT

Codan's chat software enables users within a HF, or external network to communicate via chat.

#### SMS

Send and receive SMS messages on your HF radio to/from any cellular phone.

### REMOTE

#### VIRTUAL CONTROL POINT

Control the 6110-MP radio through a PC via the Virtual Control Point, a digital replica of your front panel that emulates similar functionality.

#### INTERNET PROTOCOL

Control and communicate through your 6110-MP transceiver using remote solutions through the internet, even if the transceiver is on the other side of the world.

### WARRANTY AND WORLDWIDE SUPPORT

Codan products are backed by an extensive distribution and support network, and include a three year extendable warranty.

### HANDSETS

#### H-250 AUDIO

A comprehensive range of H-250 compatible audio accessories are available including; handsets, headsets.

#### 2320 HANDSET

The 2320 smart handset enables remote operation of the manpack, with all the capability of the front panel in the palm of your hand.

#### BACKPACK

The 6110-MP backpack is designed for strong and stable load carriage, with a fully adjustable harness system, maximizing comfort regardless of task.

### CARRIAGE

### ASSET MANAGEMENT AND TRACKING

#### RTS

Codan's Remote Tracking Software provides an effective means to locate, track and manage remote assets with no on-going subscription fees.

### ANTENNAS & MASTS

#### BROADBAND

A range of tactical broadband antenna solution are available to support different mission requirements. From compact tuned long wires to larger, more efficient broadband dipoles, there is an antenna to suit.

#### WHIPS

For tactical, on the move or temporary halt communications, a range of retractable tuned whip antennas are available.

#### MASTS

Designed for tactical use where rapid deployment and ease of transportation is important.

