TECHNICAL SPECIFICATIONS

FREQUENCY RANGE	Тх	1.6 to 30MHz
	Rx	250KHz to 30MHz
POWER OUTPUT		150W PEP
CHANNELS		1000
CONTACTS		Up to 500 entries
HF NETWORKS		Up to 20 networks (simultaneously scanning)
LANGUAGE SUPPORT		English, Arabic, Dari, Pashto, Chinese, French, Portuguese, Russian, Spanish
		Digital Voice (MELPe/TWELP)
WAVEFORMS		Selcall
		FED-STD-1045; JITC Certified MIL-STD-188-141B; STANAG 4538 3G ALE
		MIL-STD-188-110A/B (STANAG 4539) data
		ECCM
ENCRYPTION		CES-128, AES-256
SIZE	RFU	190 x 222 x 67 mm (D x W x H)
	Handset	67 x 73 x 210 mm (D x W x H)
WEIGHT	RFU	2.82kg
	Handset	0.28kg (no cable)
TEMPERATURE RANGE		Operational at -30 to +60°C; 95% RH maximum, non-condensing
VOLTAGE RANGE		10 to 35 V DC
CURRENT DRAW	Тх	14A
	Rx	650mA
PROTECTION		Over Voltage, Under Voltage, Over Temperature, Reverse Polarity
ENVIRONMENTAL STANDARDS		MIL-STD-810G (Immersion, Shock, Drop, Vibration, Humidity, Blowing Dust, Salt Fog, Fungus, Contamination, Altitude)
PRODUCT TYPE NUMBERS		

CONFIGURATIONS

Versatile design for mobile and base systems

Codan's Sentry-H 6120-BM base configuration delivers reliable and powerful communications over vast distances with power outputs from 150 to 1000 W. The ruggedised RF unit's versatile design makes installation into permanent and temporary bases simple, and it operates from wide ranging DC and AC power sources. The range of control options for the 6120-BM includes a robust hand-held and indoor desk console.

When space is limited, the 6120-BM's compact and highly integrated unit together with the robust handset makes mobile installation easy. It is engineered to provide 150 W of power, eliminating the need for an external power amplifier while ensuring that you get the best and most reliable communications.









CONTACT US

codancomms.com/6120-BM Australia: +61 8 8305 0528 US: +1 571 919 6432 sales@codancomms.com Canada: +1 250 382 8268 UAE: +971 44 53 72 01

HF TRANSCEIVER SENTRY-H 6120-BM

CODANCOMMS.COM

BE HEARD

Our technical consultants will conduct a detailed on-the-ground

- Opportunities and challenges
- Cultural context
- Scenario planning

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

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

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

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

CHALLENGING REQUIREMENTS? NO PROBLEM

The Sentry-H 6120-BM is the most robust and affordable high-power radio we have ever built for voice and data communications, delivered in a small form-factor. It has an advanced SDR architecture, meaning you can upgrade any time in the future to ensure sustainability in ever-changing, challenging conditions.



ROBUST

With 60 years of experience in the field, Codan's 6120-BM radio is built with ruggedness and reliability as a focus. It has been tested to a broad range of stringent environmental standards including MIL-STD-810G – to get the job done no matter where you operate.



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 6120-BM's internal SDR architecture comprises the latestgeneration 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 its IP / Ethernet / USB connectivity.



SECURE COMMUNICATION

The 6120-BM 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 6120-BM provides an intuitive user interface that can be switched into various languages for fast and instinctive control.

INTEGRATED



Competing manpack-based tactical solutions require heavy components interconnected by large, unreliable, and difficult-to-install cabling. The 6120-BM eliminates this hassle and combines all key functions into a single compact unit.

YOUR CODAN 6120-BM SOLUTION

MOUNTING

CRADLE MOUNT

A low profile, quick fit/ release mounting cradle designed and tested to meet MIL standards. Supports the transceiver and power supply, and is fully compatible with off the shelf RAM mounting accessories.

SHOCK MOUNT

Provides additional protection for the transceiver or power supply when installed in high vibration environments as often found in mechanised and vehicular deployments.

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.

REMOTE

XTEND

The Codan XTEND app allows you to operate your 6120-BM HF radio via your smartphone or tablet. Using the widespread familiarity of smartphone devices, XTEND provides an exceptionally easy-to-use alternative to a dedicated radio control point.

VIRTUAL **CONTROL POINT**

Control the 6120-BM radio through a PC via the Virtual Control Point, a digital replica of a Sentry-H handset that emulates similar functionality

WARRANTY AND WORLDWIDE SUPPORT

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

GATEWAYS

3033 TI

Codan's Telephone Interconnect equipment can link into the telephone system enabling you to make or receive telephone calls on your HF transceiver.

3031 XPATCH

Codan's 3031 Crosspatch enables you to use a VHF/UHF radio and a 6120-BM Transceiver to extend a HF and VHF/UHF network.

SMS

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

3020 POWER SUPPLY

Used to power your transceiver system from universal AC mains, with comprehensive protection against unstable power sources.

A reliable and affordable

500W high power solution

BATTERY BACKUP

3062 1KW

12V deep cycle battery capable of supplying the 6120-BM transceiver and antenna.

A reliable and affordable

1KW high power solution

for voice and data

communication.

MOBILE

POWER SOLUTIONS

SOLAR

Solar charging solutions are available to maintain a supply battery for the Envoy HF radio and antennas.

HIGH POWER AMPLIFIERS

3240 1KW

MASTS

An automatic antenna tuner developed to interface directly with Codan's 3061 and 3062 HF power amplifiers.

INTERNET PROTOCOL

Control and communicate through your 6120-BM transceiver using remote solutions through the internet, even if the transceiver is on the other side of the world.

BROADBAND

Full size base station antennas designed to suit a wide range of HF communications requirements and installation scenarios.

TUNED

3061 500W

for voice and data

communication.

A range of tuned antenna solutions that are suitable for installations with limited space.

Antennas designed for

a wide range of vehicle

types and applications.

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

ANTENNAS & MASTS

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.

CONVOY

Codan Convoy complete communication solution is the only communications platform that integrates HF radio, satellite and cellular communications services into the one system.