

# TACTICAL VHF RADIO

## SENTRY-V 6150



### KEY FEATURES

- 30 – 88 MHz frequency range
- Digital Voice (MELPe/CVSD)
- Frequency hopping
- Data transmission
- AES-256 encryption
- Selective calls
- Embedded GPS
- Resistant to heat, cold, humidity
- Fully Waterproof (IP67)
- Just two switches and two buttons for complete radio operation
- Backlit LCD display
- Squelch control with power saving mode
- Multiple audio accessories

### CONFIGURATIONS

- Handheld (5W) - HH
- Man-portable (20W) - MP
- Base / Mobile (50/20W) -BM

### OPERATION IN EXTREME ENVIRONMENTS

Available in handheld, man-portable, Base and Mobile configurations, Codan's 6150 military band VHF radio provides a rugged solution for users who require communications with a tactical edge: designed and tested to all the environments faced on the modern day battlefield, offering users the ability to pass critical information across the area of operation in real time. The 6150 increases operational efficiency and awareness over VHF radio networks between forward deployed elements and operational command centers for those in the immediate area and back to command elements.

### EASY TO OPERATE

Simple minimum input level controls and an easy to read LCD display maximise usability and reduce training burden, supported by multiple audio, accessories, antenna and battery options.

### SECURE COMMUNICATIONS

The 6150 is integrated with AES-256 encryption in addition to a digital scrambler. Encryption key allocation provides network security levels within the formation and improved protection complimenting the entire network.

### ECCM

The Advanced 6150 includes an Electronic Counter-Countermeasure frequency hopping waveform, providing further network security on the electronic battlefield.

### DATA TRANSMISSION

The 6150 radio is equipped with an asynchronous data modem which enables the connection of virtually any external data device to support data transmission using FFSK waveforms with up to 24 kbp/s throughout.

### INTEGRATED GPS AND TRACKING

Automated GPS information can be displayed on screen or on demand as desired.

### SELECTIVE CALL SYSTEM

The 6150 radio provides selective call capability between individual users or between groups of users. Up to 81 individual IDs are available with the ability to also create IDs for up to 9 groups, each with up to 9 members each.

### SDS

The Short Data Service has been developed to quickly and efficiently display pre-defined messages over the network. This minimizes network activity and increases network efficiency with clear concise user defined meanings.

### RADIO PROGRAMMING AND MANAGEMENT

Frequency, transmission type and output power can be preset for each of the 10 network allocations.

Programming the 6150 can be performed:

- Directly from the radio user interface
- Through the programming software
- Cloning directly from radio to radio
- Using a Fill Gun

Complimented by emergency zeroise function the radio can be quickly erased in the field by an operator, adding an extra layer of protection to network security.

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### ACCESSORIES

- Headsets with PTT (including in-the-ear)
- Long, medium and short blade-model antennas
- Battery chargers (single and multi-bay)
- Fill gun
- Vehicle adapter
- RF 50W power amplifier
- Cross frequency interoperability



Long, medium and short antennas



Headset with PTT



Integrator 6150 family to 6160 family crosspatch



Console (mobile use)

CAPABILITY	6150 STANDARD SET	6150 ADVANCED SET
AES-256 encryption	No	Yes
AES-40 bit encryption	Yes	Yes
Frequency hopping	No	Optional
Data transmission rate	1.2 / 2.4 / 9.6 / 19.2 kbp/s FFSK or 4LFSK	1.2 / 2.4 / 9.6 / 19.2 / 24 kbp/s FFSK or 4LFSK

6150-HH (5W)  
HAND HELD



6150-MP (20W)  
MAN-PORTABLE



6150-BM (20/50W)  
BASE, MOBILE



Values noted are typical. Equipment descriptions and specifications subject to change without notice or obligation.

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### SPECIFICATIONS

#### GENERAL

Frequency range	30 to 87.975 MHz
Channels	Up to 2320 entries
Programmable channels	10
Channel spacing	25 kHz
Data transmission rates	1.2 / 2.4 / 9.6 / 12.0 / 19.2 / 24 kbp/s
Operating modes	Simplex, two-frequency simplex
Power supply	7.2 V (HH), 12 V (MP), 12 / 24 V (BM)
Interoperability	According to STANAG 4204
Battery Life (1:1:8 and 1W RF)	>10 hours for NiMH battery >24 hours for Li-Ion battery

#### RF

Modes	F3E, F1D, F2D, F1E, F2E
Output power	Max 5 W (HH), 20 W (MP), 20/50 W (BM)
Frequency stability	± 5 ppm
Nominal antenna impedance	50 Ω
Sensitivity	F3E: ≤ 0.5 μV (SINAD 12 dB) F1D: ≤ 0.7 μV (up to 9.6 kb/s) ≤ 2.0 μV (over 9.6 kb/s)
Audio output power	int. 400 mW/160Ω ext. 200 mW/8 Ω
Audio bandwidth	400 to 2500 Hz
Audio distortion	≤ 7%

#### MECHANICAL

Dimensions (H x W x D)	212 mm x 91/76 mm x 43 mm (HH)
Weight (with battery)	940 g

#### ENVIRONMENTAL

Temperature range	Operational: -32°C to +50°C Extreme: -40°C to +71°C
Immersion-proof	1 m / 2 hours
Military standards	MIL STD 810F, NO-58-A213

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