

# PRC2100V VHF Tactical Manpack Radio

TACTICAL VHF



Datron's PRC2100V is one of the Spectre V® series of transceivers, providing tactical VHF communications capability over the 30-88 MHz band. The PRC2100V is a high performance, competitively priced, tactical manpack radio that features embedded ECCM, COMSEC, and GPS capabilities. It is designed to satisfy the demanding needs of today's sophisticated tactical communications arena and is available as either a 10W manpack or a 75W mobile or fixed station system. It meets MIL-STD-810 for reliable operation in harsh environments in any configuration.

The PRC2100V addresses today's most pressing battlefield issues by incorporating a full range of embedded features. Excellent dynamic range lets co-located units transmit and receive simultaneously on the same vehicle without diminished performance. Menu screens in the language of the user offers a new level of operating comfort for the operator.

Accurate position and time-of-day capability is afforded by the embedded GPS receiver. Full- or partial-band frequency hopping and digital encryption waveforms offer a high level of jamming resistance and built-in high security encryption for both voice and data transmissions. The PRC2100V is compatible with the PRC1080 in one of its hopping and encryption modes.

The PRC2100V has excellent distance coverage, due to its sensitive and high dynamic range receiver, its finely-tuned internal antenna matching network, and its many variable output power settings (from 100mW to 75W). High power settings can be used when maximum range is desired, while lower power settings can be used to save battery life or when low probability of intercept is a mission requirement.

A comprehensive BITE lets users or maintenance personnel completely monitor the performance of the radio. A self-calibrating function permits automatic alignment of all circuitry in the radio on demand. Status messages are shown on the PRC2100V's large graphic display. The latter is scratch and impact resistant for reliable use in tactical situations.

- 30 to 88 MHz
- 100 programmable memory channels
- Rugged (MIL-STD-810), immersible
- Up to 10W (Manpack) & 75W (mobile or base station)
- Internal antenna matching unit
- Excellent co-site performance
- BITE to module level
- Embedded ECCM, COMSEC & GPS functions



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**Datron World Communications, Inc.**

3030 Enterprise Ct.  
Vista, CA, USA 92081

**Tel:** +1-760-597-1500

**Fax:** +1-760-597-1510

**E-mail:** [sales@dtwc.com](mailto:sales@dtwc.com)

**Web:** <http://www.dtwc.com>



Certification # 08.347.1  
ISO 9001:2008  
Registered Quality System  
Datron World Communications, Inc.

## GENERAL

- **FREQUENCY RANGE** 30 to 87.975 MHz;
- **CHANNEL SPACING** 12.5 or 25 kHz
- **PRESET CHANNELS** 100 programmable memory channels - all mode information individually programmable per channel
- **SCANNING** Any or all channels in a group (up to 100)
- **CHANNEL PROGRAMMING** From front panel or remotely via computer
- **MODES** Voice & data: FF FM, FH, digital encryption - simplex or half-duplex  
Data: 100 to 56,000 bps asynchronous input, 8kbps output
- **INPUT POWER REQUIREMENTS** 11 - 15 Vdc;
- **BATTERY PACK** BB-NM10 NiMH (up to 11.1AH)
- **LOW BATTERY INDICATOR** LCD battery icon
- **ANTENNA PORT** BNC for 50 ohm broadband antennas or for connection to external amplifier; whip antenna port.  
Backlit, multi-function custom LCD
- **DISPLAY**

## MECHANICAL, ENVIRONMENTAL

- **SIZE** 8.5" x 3.5" x 9.5" (216mm x 89mm x 241mm);  
W x H x D, including battery pack.
- **WEIGHT** 9.46 lbs (4.2 kg), w/o battery pack;  
BB-NM10 pack is 4 lbs. (1.8kg)
- **PACKAGE** OD, sealed, including battery pack
- **TEMPERATURE** -20 to +60 degrees C, operating
- **SHOCK, VIBRATION, HUMIDITY, FUNGUS, ALTITUDE** Per MIL-STD-810

## TRANSMITTER

- **RF POWER OUTPUT** 500mW to 10W, (3 adjustable settings), manpack;  
500mW to 75W (4 settings), mobile or base
- **DUTY CYCLE** Continuous service, all modes
- **HARMONICS** 2nd: -46 dBc; others: -50 dBc

## RECEIVER

- **SENSITIVITY** -113dBm @ 12 dB SINAD
- **SQUELCH** Tone or carrier; compatible with AN/PRC77, PRC1077, PRC1080.
- **AUDIO** 500mW into 16 ohms; 50mW @ 150 ohms;  
0 dBm into 600 ohms.

## ANTENNA TUNING MATCHING

- **ANTENNAS** Whip (AT271A/U) and tape (AT-892/U);  
fully automatic antenna matching
- **ANTENNA SWITCHING** Antenna Matching Unit bypassed and 50 ohm port automatically engaged when whip (or long-wire) antenna removed

## INTERNAL FEATURES

- **ECCM, COMSEC, GPS** Full or partial-band frequency hopping, digital encryption (compatible with PRC1080 in one of its hopping and encryption waveforms), and internal GPS receiver with external TNC antenna connector

\* Subject to export regulations  
Specifications subject to change without notice - rev 1009  
Made in the USA



[www.dtwc.com](http://www.dtwc.com)