

PRC2100V

Spectre V® Tactical VHF Manpack Radio

SPECTRE™ V



Datron's Spectre V® radios offer secure communications in ruggedized form-factors, provide a sophisticated feature-set, and utilize a simplified user interface for ease of operator training. 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. Excellent dynamic range lets co-located units transmit and receive simultaneously on the same vehicle without diminished performance. Status messages are shown on the PRC2100V's large graphic display. Menu screens in the language of the operator offers a new level of operating comfort for the user.

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 security encryption for both voice and data transmissions.

As part of the complete line of Spectre V radio solutions, the PRC2100V is fully interoperable in all encryption and hopping modes with the HH2100V handheld radio. The PRC2100V can be used in a network to provide base station, vehicle, manpack, or retransmit capabilities.

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 500mW 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.

Features

- 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
- Module level Built-In Test (BITE)
- Embedded ECCM, COMSEC & GPS functions



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Subject to export regulations

Specifications subject to change without notice - rev 191003

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Made in the USA

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: 9600 & 19,200 bps asynchronous input, 16kbps 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.
- DISPLAY Backlit, multi-function custom LCD

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 (AT892M); internal antenna matching

INTERNAL FEATURES

- ECCM, COMSEC, GPS Full- or partial-band frequency hopping, digital encryption, and internal GPS receiver with external TNC antenna connector. The PRC2100V is fully interoperable in all encryption and hopping modes with the companion HH2100V portable radio.