

# PRC2150 VHF Manpack

TACTICAL VHF



Datron's PRC2150 is one of the Spectre V<sup>®</sup> series of transceivers, providing tactical VHF communications capability over the 30-88 MHz band. The PRC2150 is a high performance, competitively priced, tactical manpack radio that features GPS capability with optional analog encryption that can be imbedded into the transceiver. 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 PRC2150 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. Optional analog encryption provides an economical yet effective means of secure communications for both voice and data transmissions. The PRC2150 is compatible with the PRC1060, PRC1077 and new HH7700.

The PRC2150 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 PRC2150'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



# PRC2150 VHF Manpack



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### 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, Optional analog 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
- DISPLAY Backlit, multi-function custom LCD

### MECHANICAL, ENVIRONMENTAL

- SIZE 3.5" x 8.5" x 9.5" (216mm x 89mm x 241 mm); (H x W 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

- COMSEC, GPS Optional analog encryption. Internal GPS receiver with external TNC antenna connector

\* Subject to export regulations  
Specifications subject to change without notice - rev 0209  
Datron is an ISO 90012000 Certified Company  
Made in the USA

