

# PRC1077 VHF Tactical Manpack Radio

TACTICAL VHF



Datron's PRC1077 is a VHF/FM tactical manpack transceiver designed for use in harsh environments. It is a 5W radio operating over the full 30 - 88 MHz frequency range with 25 kHz resolution. The PRC1077 is rugged, compact, and can be configured with numerous accessories to create a wide variety of manpack, mobile, or base station systems.

The PRC1077 meets MIL-STD-810 for shock and vibration, is immersible in water to 1m, and incorporates modern components to ensure availability of the radio well into the future.

The PRC1077 is reliable, lightweight, easy to program, easy to use, and provides long mission life due to low current drain. Its modular packaging design allows easy field maintenance.

An optional encryption module can be embedded into the PRC1077 to provide an effective means of communications security.

The PRC1077 is a modern manpack radio with high performance features that still retains the same form, fit, and function of the AN/PRC-77. It is completely interchangeable with the AN/PRC-77 and can be used in all AN/PRC-77 configurations. The PRC1077 also is fully interoperable with U.S. standard audio accessories and antennas. These features make it possible for users to economically modernize their tactical VHF systems by incorporating the PRC1077 without obsolescing their extensive inventory of accessories and ancillary equipment.

A full range of accessories are available for the PRC1077 including a 50W RF booster amplifier, 12V and 24V mobile mounts, solar power unit, extended control unit, retransmission system, and whip and long-range broadband antennas. A complete programming kit with programming software, keyfill device, cable, and operator/technical manual is available for the optional encryption module.

- 30 to 88 MHz, 25 kHz steps
- 10 programmable memory channels
- Rugged, immersible
- 0.5/2/5/50 watts
- Internal antenna matching network
- Embedded encryption (optional)
- Low current drain
- Drop-in replacement for AN/PRC-77
- Multiple battery charging options



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## Datron World Communications, Inc.

3055 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>



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

### GENERAL

- FREQUENCY RANGE 30 - 87.9875 MHz
- AVAILABLE CHANNELS 2320 in 25 kHz steps
- PRESET CHANNELS 10 programmable memory channels
- CHANNEL PROGRAMMING Front panel
- MODES FM; simplex, semi-duplex
- INPUT POWER REQUIREMENTS 11 - 15 Vdc;
- BATTERY PACK BB-LA6 sealed lead calcium; BA5598/U Lithium (case holds spare battery)
- BATTERY LIFE 30 hrs @ 9:1 duty cycle (5W Tx) using BB-LA6
- ANTENNAS 3 ft. (1.2m) tape and 10 ft. (3m) whip; 50 ohm antenna
- ANTENNA PORT BNC for 50 ohm broadband antennas or for connection to external amplifier; whip antenna port.
- DISPLAY Backlit, multi-function custom LED

### MECHANICAL, ENVIRONMENTAL

- SIZE 11.1" x 4.1" x 9.25" (28.2cm x 10.5cm x 23.5cm); W x H x D, including battery pack.
- WEIGHT 9.7 lbs (4.4 kg), w/o battery pack; BB-LA6 pack is 5.2 lbs (2.4 kg).
- PACKAGE OD, sealed, including battery pack.
- TEMPERATURE -40 to +60 degrees C.
- SHOCK, VIBRATION, HUMIDITY, FUNGUS, ALTITUDE Per MIL-STD-810

### TRANSMITTER

- RF POWER OUTPUT 0.5W, 2W or 5W, selectable
- DUTY CYCLE Continuous service
- HARMONICS -50 dBc

### RECEIVER

- SENSITIVITY -116 dBm @ 12 dB SINAD
- SQUELCH 150 Hz tone, carrier; selectable
- AUDIO 500mW into 16 ohms; 50mW @ 150 ohms; 0 dBm into 600 ohms.

### ACCESSORIES

- AMPLIFIER AM-1077, 50W RF unit
- MOBILE MOUNT MT-1077, +12Vdc or +24Vdc versions; mounts to any vehicle
- POWER SUPPLY PS1077 for portable usage; UPF7000A-28 or UPF7000A-12 for base station
- CHARGER PRC-BC4 (4-unit charger), PRC-PS (power supply or 2-unit charger), PRC-SPU-10 (solar power unit), PRC-HC-30 (hand crank generator)
- CONVERTER AM1077CONV, 12-to-28Vdc
- COMSEC KRC1077, high-security voice scrambler

\* Subject to export regulations  
Specifications subject to change without notice - rev 0111  
Made in the USA