

## **SINGLE HANDHELD MOBILE COMMUNICATIONS KIT**

The Tricom Research **TCR-HHR-11** is a highly integrated fly away communications kit for use with an individual single or dual channel handheld radio. The system allows an operator to rapidly establish an amplified communications link in a variety of use cases including fixed-station, mobile, vehicular, and air. The case is factory configured for either the AN/PRC-163 or the AN/PRC-148C radio and either version is backwards compatible to an AN/PRC-148 or AN/PRC-152 radio with an optional adapter cable. A TW-950 configuration is also available.

The compact and rugged case provides mounting, power, and cabling for a single or dual channel handheld radio. The innovative design integrates a Tricom **TCR-MBA-50v2** or **TCR-U/L-50** RF Power Amplifier, a **TCR-SPK-DUALv2** Amplified Dual-Net Speaker, an AC-DC power supply, and a wide input DC-DC converter. The integrated battery cradle holds a pair of BB-2590 batteries providing system backup power for the radio, power amplifier, and speaker. The egress panels provide easy access for AC or DC power, antenna, radio, and handset connections. Automatic switching of antenna ports based on mode and frequency simplifies use and allows for multiple antennas to be deployed without re-cabling when supporting multiple nets.



**Part #: 11000-00941-XXX-X (multiple configurations available, contact Tricom Research)**

### **FEATURES**

- Transmit amplification for the 30-512 MHz frequency range (TCR-MBA-50v2) or 225-450 MHz, 1.25-1.45 GHz (L1), and 1.75-1.85 GHz (L2) frequency ranges (TCR-U/L-50)
- Compatible with all waveforms in modern radios including SATURN, WREN-TSM, and ANW2C
- Integrated TCR-SPK-DUALv2 Amplified Dual-Net Speaker
- User-selectable antenna ports within intuitive PA menus
- AC and DC power inputs standard
- UPS capability using two BB-2590 batteries
- Excessive temperature, voltage, and current protection

## GENERAL SPECIFICATIONS

RF Connectors	TNC Female
DC Connector	ITT Cannon CA3102E12SA10P
DC Input	12-32 VDC
AC Connector	IEC C14
AC Input	90-260 VAC, 50/60 Hz
Battery Type	BB-2590 (Bren-Tronics BT-70791JV or equivalent recommended)
Dimensions	6.87" H x 16.4" W x 13" D
Component Specifications	Refer to amplifier and speaker datasheets, available at <a href="http://www.tricomresearch.com">www.tricomresearch.com</a>

\*Radios and batteries are user supplied



AN/PRC-163 Configuration



AN/PRC-148C Configuration



Egress Panel (AN/PRC-163 configuration)



Handset Egress Panel



TCR-MBA-50v2  
(Standard)



TCR-U/L-50  
(Optional)



TCR-SPK-DUALv2