RF-7800V-HH

The world’s most advanced VHF manpack...in a handheld form factor.
RF-7800V General Features

- **Built-in GPS Receiver**
  Provides locations information and allows for shared situational awareness amongst team members and commanders.

- **Data and built-in Tactical Internet Protocol capability**
  Software data applications can be connected to the RF-7800V-HH for sending emails, chat messages, images, and situational awareness.

- **Direct USB and LAN Connectivity**
  Provides the end user an ability to directly connect USB and IP devices to the radio. Reducing the need for a PC/Data Terminal to control message traffic or data packages.

- **Dual PTT**
  Provided dual net communications when operating in a single channel.

- **Embedded Harris TAC-CHAT IP Application**
  Removes need for external PC/PDA devices for transmission of text and data to other TAC-CHAT IP clients.

- **FALCON II® Interoperability**
  Allowing FII and FIII radios to communicate and share data seamlessly and reliably.

- **Free Channel Search**
  Ideal for operations that require frequency agility in an high-noise or radio-jamming environment.

- **High + Watts Output Power**
  Ideal for long-range communications and reliability in close combat. When channel conditions require extra power output to deliver messages or voice traffic.

- **Military-Grade Customizable Citadel I® and AES Encryption**
  Secures communications against any adversary.

- **Mixed-Mode**
  A Quick Look 3 feature; This enables the radio to dynamically select between Free Channel Search and Frequency Hopping based on current channel conditions.

- **QuickLook 1A/2/3 ECCM**
  A true military grade ECCM solution that is also easy to use. Provides covert communications and renders enemy radio-jamming devices ineffective.

- **Radio Over Internet Protocol**
  Uses open standards protocols to allow the 7800V-HH to be integrate into a customer’s IP network. It provides a cost effective way to create unified voice communications system composed of different devices, such as POTS phones, IP phones, PDAs, smartphones, and other communications equipment.

- **Remote KDU support**
  Ideal for the dismounted and mounted configurations; where front panel operations are needed but not practical from the radio itself.

- **RNDIS**
  Remote Network Driver Interface Specification (RNDIS) peripheral mode capability. RNDIS is a Microsoft® proprietary protocol that provides a virtual Ethernet link (over USB).

- **TDMA Networking Waveform(TNW)***
  Providing real-time Battle Management System information for multiple radios/clients simultaneously.

- **TELEPHONY / RF-6010 Base Station***
  Allows the radio to be directly connected to a RF-6010 and support multi-in telephony operations.

- **Voice Over IP Capability***
  Support making phone calls to/from IP base phones connected to an Asterisk or Cisco Call Manager VoIP PBX system.

- **30-108 MHz Frequency Band**
  The ability to use a wide continuous frequency band greatly simplifies the task of frequency allocation for critical missions.

- **50W VHF Power Amplifier**
  Further increases the range in either base station or vehicular configurations.

- **64 Kbps IP Data ECCM***
  Giving the user the ability of up to 64kbps IP/DTE data while frequency hopping.

- **192 kbps IP data***
  Data throughput that gives users the fastest VHF HH data capabilities for fast large file transmission and mission critical/time sensitive information sharing.

* Advanced Software: RF-7800V-SW002 (Optional)
The Falcon III® 7800V VHF Combat Net Radio (CNR) enables forces to communicate more information, with greater speed and reliability—all crucial to achieving information superiority on the battlefield. The RF-7800V combines performance and flexibility unlike any other VHF combat net radio available in a platform that’s highly portable and easy to use. Commanders get access to advanced real-time situational information that enables them to make faster, more informed decisions.

**RF-7800V-HH**

**HANDHELD VHF TACTICAL RADIO**

The Falcon III® 7800V VHF Combat Net Radio (CNR) enables forces to communicate more information, with greater speed and reliability—all crucial to achieving information superiority on the battlefield. The RF-7800V combines performance and flexibility unlike any other VHF combat net radio available in a platform that’s highly portable and easy to use. Commanders get access to advanced real-time situational information that enables them to make faster, more informed decisions.

**Features include:**
- 30MHz – 108MHz
- Military-Grade Frequency Hopping
- Military-Grade Customizable Citadel II® and AES Encryption
- Base Station Support
- TDMA Waveform
- Direct USB and Ethernet connectivity
- Dual Net PTT
- High Capacity, Lithium Ion Battery
- Integrated GPS
- Intuitive, Soft-Key Keypad
The RF-7800V-V50x provides a vehicular mounting and power amplification option for the RF-7800V-HH radio. The amplifier provides full 50W amplification from 30 to 108 MHz. Integrated into the amplifier is a hopping collocation filter for the 30 to 108 MHz to provide enhanced collocation performance in demanding RF environments. The amplifier is designed to meet MIL-STD-810F requirements.

**Features include:**
- Passive and user initiated BIT
- Integrated Handheld battery charger
- RF-7800I interface, VIC-1 and VIC-3
- Integrated Heatsink for extended-use duty cycles
- Built-in remote KDU interface
- 5W, 20W, and 50W user selectable power output
- Jerk-and-Run capability
- Radio, antennas, and other ancillary equipment are not included with the amplifier
RF-7800V-V51X

VEHICULAR / BASE VHF RADIO SYSTEM

The RF-7800V-V51x 50 Watt VHF radio takes the outstanding performance and features of the RF-7800V-HH radio and RF-7800V-V50X 50 watt VAU and combines the two into one small-form-factor high-powered VHF radio. This high-powered radio is specifically designed for vehicular and base station applications that desire the smallest possible footprint over jerk-n-run capabilities. The Vehicular Radios provides a full 50 watts from 30 to 108 MHz. The radio also provides improved RF and Co-site performance over traditional non-integrated VHF solutions. The RF-7800V-V51x is designed to meet MIL-STD-810F requirements and can be hard mounted in most installations. The vehicular radio provides a user interface and display identical to the RF-7800V-HH. Both the RF-7800V-V51x and RF-7800V-HH share the same suite of accessories which reduces costs and share a common feature set which reduces training time.

Features include:

- All interfaces built-in
- Hub battery to maintain ToD synchronization
- 5W, 20W, and 50W user selectable power output
- Integrated heat sink for extended-use duty cycles
- Built-in remote KDU interface
- Built-in RF-7800V-HH Keypad/Display Unit

“X” = Available color of radio and amplifier: 1 = Green ■ 2 = Black ■ 3 = Tan ■
Delivering advanced capabilities that allow your forces to effortlessly operate across a network-centric battlefield.

To learn more about Harris Combat Net Radio capabilities, please visit http://rf.harris.com/capabilities/tactical-radios-networking/rf-7800v/default.asp

COMMUNICATIONS SOLUTIONS FOR TODAY AND BEYOND.

Harris is an international communications and information technology company serving government and commercial markets in more than 125 countries. Headquartered in Melbourne, Florida, the company has approximately $5.5 billion of annual revenue and about 15,000 employees – including 6,000 engineers and scientists. Harris is dedicated to developing best-in-class assured communications® products, systems and services. Additional information about Harris Corporation is available at harris.com.