

## **RF-5800V-MP**

**FALCON II®**

**VHF TACTICAL  
RADIO SYSTEM**



**Reliable**

The RF-5800V-MP is the VHF manpack member of the Falcon II® tactical radio family, providing continuous coverage in the 30 to 108 MHz frequency band.

**tactical**

The RF-5800V-MP is interoperable with the other Falcon II radios: the RF-5800V-HH VHF Handheld, the RF-5800H-MP HF/VHF Manpack, the RF-5800M-MP Multiband Manpack and the RF-5800M-HH Multiband Handheld.

**secure**

Voice communications are provided through the standard handset/headset connector or the audio interface for intercom systems. The standard 16 Kbps modem uses FSK modulation and is compatible with many legacy data communication systems while the optional high-speed modem supports rates up to 64 Kbps for added throughput and reduced on air time. Support of IP data capability simplifies network interfacing while ensuring reliable data communications. ECCM protects voice and data from hostile interference with the easy-to-use Harris Quicklook 1A/II waveforms.

The RF-5800V-MP advanced tactical network capability is unsurpassed. The industry standard PPP serial interface allows Internet-style services to be extended to the battlefield without any additional equipment. When used with the RF-6010 Tactical Network Access Hub, the mobile user can place and receive telephone calls directly from the radio.

The embedded Harris Citadel® II provides military-grade security or AES encryption for both voice and data transmissions. A customer-unique encryption algorithm is also available.

Designed for the modern soldier, the radio is packed with the most advanced capabilities available: tactical network configuration with the RF-6010, support of 64 Kbps data rates, automatic position reporting using an optional internal GPS receiver, IP data, integration with computer-based situational awareness systems, and a removable Keypad/Display Unit for total control during on the move operations.

The Harris VHF Manpack radio sets an unprecedented new standard for capabilities and versatility.



## ***Specifications for the RF-5800V-MP***

<b>General</b>	
<b>Frequency Range</b>	30-108 MHz
<b>Input Power</b>	26 VDC MIL-STD-1275 compliant
<b>Net Presets</b>	25
<b>Dimensions</b>	8.1 W x 18.3 H x 34.3 D cm (with battery)
<b>Weight</b>	3.6 kg (without batteries) 5.0 kg (with batteries)
<b>RF Output Impedance</b>	50 ohms VHF/UHF, unbalanced
<b>Transmission Modes</b>	FM Analog Voice FSK 16 Kbps CVSD Voice FSK 16 Kbps Data Trellis Coded Modulation 64 Kbps IP Data (option)
<b>Color/Finish</b>	Green/CARC

<b>Transmit</b>	
<b>Output Power</b>	1 W, 4 W, 10 W (user selectable)
<b>Harmonic Suppression</b>	> 50 dBc typical
<b>Spurious Suppression</b>	> 50 dBc typical

<b>Receive</b>	
<b>FM Sensitivity</b>	-118 dBm @ 10 dB SINAD
<b>IF Rejection</b>	> 80 dB

<b>Environmental</b>	
<b>Operating Temperature</b>	-40° to 70°C
<b>Shock/Vibration</b>	Ground/Mobile per MIL-STD-810
<b>Immersion</b>	1 M per MIL-STD-810

<b>Features</b>	
<b>ECCM</b>	Quicklook IA/II
<b>Data Communications</b>	64 Kbps DTE and IP Data Rate
<b>SMS</b>	Adaptive Learning
<b>COMSEC</b>	Citadel® II
<b>GPS</b>	Internal (option)
<b>Data Interface</b>	RS-232 SYNC/ASYN, PPP

<b>Accessories</b>	
<b>H-250 Style Handset</b>	Included
<b>Battery Case</b>	Included
<b>Operators Manual</b>	Included
<b>KDU Remote Control Cable</b>	Included
<b>1 meter Tape Antenna</b>	Included
<b>Battery Charger</b>	2-, 6-, 8-Bay Chargers
<b>Fixed/Mobile Antennas</b>	Numerous types
<b>Data Cables</b>	Wide variety of lengths
<b>Remote Control</b>	RF-5800R-RC
<b>Radio Programming Application</b>	PC-Based Application Software
<b>TacChatIP</b>	RF-6705
<b>BB-Series Batteries</b>	Various chemistries
<b>Headsets</b>	Numerous types
<b>Tactical Network Access Hub</b>	RF-6010
<b>Backpacks/Soft Accessories</b>	Numerous types

<b>Configurations</b>	
<b>Vehicular Power Adapter</b>	RF-5800V-V201