

RF-5800V-HH
FALCON II® ADVANCED
VHF TACTICAL
HANDHELD RADIO

Reliable
secure
soldier-proven

The RF-5800V-HH is a small, lightweight VHF handheld that extends the outstanding performance of the FALCON II® tactical radio family to the squad level. It provides continuous coverage in the 30 to 108 MHz frequency band.

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

Voice communications are available through the built-in speaker/microphone or the standard headset connector. Automatic whisper sensitivity ensures that even quiet communication is clearly heard. Data communications are available through the side connector and enable the radio to be seamlessly integrated into tactical data systems. ECCM protects voice and data from hostile interference with the easy-to-use Harris Quicklook 1A waveform.

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

Advanced low-power circuitry and a high-capacity, rechargeable Lithium-ion battery provide superior mission life. The selectable 5-watt RF output power is comparable to much larger manpack radios and increases communication range and reliability. Using the RF-3161-AT001 VHF Dipole Antenna provides comparable range performance to a 10-watt manpack at less than half the weight and size.

Designed for the modern soldier, the radio is small and light, yet packed with the most advanced capabilities available: access to telephone systems via the RF-6010 Tactical Network Access Hub, IP data, automatic position reporting using an internal or external GPS receiver, integration with computer-based situational awareness systems, and tactical messaging or image transmission applications.

The Harris VHF handheld radio sets a new standard for capability and versatility in a small, lightweight package.



Specifications for the RF-5800V-HH

General	
Frequency Range	30-108 MHz
Net Presets	25
Dimensions	7.4 W x 23.1 H x 4.1 D cm (with battery)
Weight	< 1 kg (with battery)
RF Output Impedance	50 ohms, unbalanced
Transmission Modes	FM Analog Voice FSK 16 Kbps CVSD Voice FSK 16 Kbps Data
Finish/Color	CARC/Green
Future Proof	Software Based Radio

Transmit	
Output Power	250 mW, 2 W, 5 W (user selectable)
Harmonic Suppression	> 47 dBc typical
Spurious Suppression	> 50 dBc typical

Receive	
FM Sensitivity	-116 dBm @ 12 dB SINAD
Squelch	Selectable: off/noise/tone/digital
IF Rejection	> 60 dB

Environmental	
Operating Temperature	-30°C to 60°C -20°C to 60°C (with battery)
Humidity	90% per MIL-STD-810
Immersion	2 M per MIL-STD-810

Features	
ECCM	Quicklook 1A
Data Communications	16 Kbps DTE and IP Data Rate
SMS	Adaptive Learning
COMSEC	Citadel I
GPS	Internal (option)
Data Interface	RS-232 SYNC/ASYNCR, PPP
Directed Calling	Private radio-to-radio call

Accessories	
30 to 108 MHz Whip Antenna	Included
Operators Card	Included
High-Capacity Lithium-Ion Rechargeable Battery	One included, additional available
Operators Manual	Included
Battery Charger	1-, 2-, 6-Bay Chargers/ Conditioners
Vehicular Adapter	RF-5852 Adapter/Charger
Radio Programming Application	PC-Based Application Software
Headset	Numerous types
Handset	H-250 Style
Holster	Mollie/web compatible, numerous types
Data Cables	Wide variety of lengths
Tactical Accessory Bag	Holds radio and entire complement of equipment
Soldier Antenna	RF-3161-AT001

Configurations	
Dismounted Communication System	RF-5800V-DS001 RF-5800V-DS101 (with GPS)
Vehicular Power Amplifier/Adapter	RF-5800V-V500



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