

## **RF-5800M-HH**

**FALCON® II  
MULTIBAND  
HANDHELD RADIO**

*multimission*

*multiband*

*one radio*

The RF-5800M-HH is a small, lightweight multiband 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 512 MHz frequency band. The RF-5800M-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-5800V-HH VHF handheld.

Voice communications are available through the built-in speaker/microphone, or through the standard headset connector. Automatic whisper sensitivity ensures that even quiet communication is clearly heard. Multimedia Data Communications are available through the side connector and enable the radio to be seamlessly integrated into tactical data systems.

The RF-5800M-HH is also available in a 20M submersible version. The power on at depth capability of the 20M radio allows the user to be communication ready prior to surfacing.

With CITADEL® encryption, Quicklook 1A, and the optional Havequick I / II ECCM, the RF-5800M-HH extends the security of the FALCON II family to the individual soldier for ground-to-ground and air-to-ground communications.

Advanced low-power circuitry and a high-capacity, rechargeable lithium-ion battery provide superior mission life. The selectable 5W RF output power is comparable to much larger manpack radios and increases communication range and reliability.

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



## Specifications for the RF-5800M-HH

### General

|                           |                                      |                            |                               |
|---------------------------|--------------------------------------|----------------------------|-------------------------------|
| <b>Frequency Range</b>    | 30-512 MHz (continuous)              | <b>RF Output Impedance</b> | 50 ohms, unbalanced           |
| <b>Net Presets</b>        | 25                                   | <b>Weight</b>              | <1 kg. (typical with battery) |
| <b>Dimensions</b>         | 9.1"H x 2.9"W X 2.4"D (with battery) | <b>Color/Finish</b>        | green / powder coat           |
| <b>MTBF</b>               | 5,000 hours per MIL-STD-217          | <b>Future Proof</b>        | software-based radio          |
| <b>Transmission Modes</b> | FM/FSK/AM/ASK                        |                            |                               |

### Transmit

|                            |                               |                             |                 |
|----------------------------|-------------------------------|-----------------------------|-----------------|
| <b>Output Power</b>        | 0.25, 2, 5W (user selectable) | <b>Harmonic Suppression</b> | >47 dBc typical |
| <b>Frequency Stability</b> | <2ppm                         | <b>Spurious Suppression</b> | >50 dBc typical |

### Receive

|                       |                        |                     |        |
|-----------------------|------------------------|---------------------|--------|
| <b>FM Sensitivity</b> | -116 dBm @ 12 dB SINAD | <b>IF Rejection</b> | >65 dB |
|-----------------------|------------------------|---------------------|--------|

### Environmental

|                              |                              |                  |   |
|------------------------------|------------------------------|------------------|---|
| <b>Operating Temperature</b> | -30°C to 60°C                | <b>Immersion</b> | 2M per MIL-STD-810<br>20M per MIL-STD-810 |
|                              | -20°C to 60°C (with battery) | <b>Humidity</b>  | 90% per MIL-STD-810                       |

### Features

|                            |   |                         |                             |
|----------------------------|---|-------------------------|-----------------------------|
| <b>ECCM</b>                | Quicklook 1A<br>Havequick I / II (option) | <b>COMSEC</b>           | CITADEL                     |
| <b>Data Communications</b> | 16kbps DTE and IP data rate               | <b>GPS</b>              | internal (option)           |
| <b>SMS</b>                 | adaptive learning                         | <b>Data Interface</b>   | RS-232 sync/async           |
|                            |   | <b>Directed Calling</b> | private radio-to-radio call |

### Accessories

|                               |          |   |          |
|-------------------------------|----------|---|----------|
| <b>VHF Blade Antenna</b>      | included | <b>High-Capacity Lithium-Ion Rechargeable Battery</b> | included |
| <b>Broadband Whip Antenna</b> | included | <b>Operators Card</b>                                 | included |

### Ancillaries

|  |                                     |                               |  |
|--|-------------------------------------|-------------------------------|--|
| <b>Battery Charger</b>                     | 1-, 2-, 6-bay chargers/conditioners | <b>Headset</b>                | numerous types                                     |
| <b>Vehicular Adapter</b>                   | RF-5852 adapter/charger             | <b>Handset</b>                | H-250 style  |
| <b>Radio Programming Application</b>       | PC-based application software       | <b>Holster</b>                | mollie/web compatible,<br>numerous types           |
| <b>High-Capacity Lithium-Ion Batteries</b> | 12041-2100-02                       | <b>Data Cables</b>            | wide variety of lengths                            |
|  |                                     | <b>Tactical Accessory Bag</b> | holds radio and a complete complement of equipment |

Specifications are subject to change without notice.