



SUITE B COMPATIBLE MULTIBAND HANDHELD RADIO

RF-310M-HH

FEATURES

- > Secret and below interoperable, non-CCI communications for U.S. DoD, NATO, and coalition forces
- > Non-CCI device
- > SCA v2.2 compliant
- > Sierra IIB programmable crypto
- > Built-in speaker/mic
- > Full numeric keypad
- > High band UHF/APCO P25 (optional)
- > NVG compatible display
- > Embedded GPS (optional)
- > Wireless cloning
- > Long-life internal Hold-up Battery (HUB)
- > Supports multiple mission plans

The Falcon III® RF-310M-HH Suite B Compatible Multiband Handheld Radio is the first Suite B compatible radio, a Type-1 non-CCI variant of Harris' widely-fielded NSA-certified AN/PRC-152(C) multiband, multimission handheld. Featuring the same JTRS Software Communications Architecture (SCA) operating environment as the AN/PRC-152, the RF-310M-HH offers revolutionary Secret and below interoperability for U.S. Department of Defense (DoD), NATO and coalition forces.

Ideal for homeland security operations, the RF-310M-HH supports secure communications that bridge the gap between U.S. DoD agencies, emergency first responders, and state and local agency personnel. A first for tactical radios, NATO customers can use the radio for both coalition interoperability and national needs through locally generated, independent sovereign key management.

The RF-310M-HH is secured with Suite B compatible cryptography and key management techniques, incorporating Harris Sierra IIB programmable encryption. The Advanced Encryption Standard (AES) and keying standards are used to handle voice and data traffic at the U.S. Secret level and below. Suite B cryptography provides a common set of cryptographic algorithms to meet the varying communications needs of U.S. government, NATO and coalition forces. For key fill, the radio currently interfaces with EKMS (DS-101) capable devices and the KVL-3000+. Multiple mission fill files can be stored to extend the adaptability of fielded radios.

Covering the 30 to 512 MHz frequency range, the RF-310M-HH provides selectable RF output up to 5 watts. Current waveform support includes VHF/UHF AM and FM and APCO P25, optionally available is a high band version radio that extends the UHF LOS and APCO P25 frequency coverage to the 700/800 MHz band.

An optional embedded GPS receiver displays local position and provides automatic position reporting for situational awareness in the field. AN/PRC-152(C) radio accessories are compatible with the RF-310M-HH.

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SPECIFICATIONS FOR: RF-310M-HH



RF-310M-HH
with GPS option



RF-300M-HV

GENERAL

Frequency Range	30-512 MHz
Extended Frequency Range (HW option)	30-520 MHz; 762-870 MHz
Presets	99 (standard); unlimited using multiple mission plan files
Transmission Modes	FM, AM, FSK, CPM*, PSK* (*PT only)
Tuning Resolution	10 Hz

SPECIFICATIONS

Dimensions	2.9 W x 9.6 H x 2.5 D in. (with battery and antenna) (7.37 W x 24.38 H x 6.35 D cm with battery and antenna)
Weight	2.7 lbs (1.22 kg) (with battery)
Volume	42 in. ³ (with battery and GPS)

TRANSMITTER

Output Power	250 mW to 5 W 4 watt max 762-870 MHz
Harmonic Suppression	-50 dBc
Frequency Stability	+/- 2.5 ppm

RECEIVER

FM Sensitivity	-116 dBm (12 dB SINAD) Typical
FM Deviation	5, 6.5, and 8 kHz
Adjacent Channel Rejection	Greater than -40 dB
Squelch	VULOS (TONE, NOISE, CDCSS, CTCSS) P25 Analog (Noise, CDCSS_A, CDCSS_B, CTCSS) P25 Digital (Normal, Monitor, Selectable)

INTERFACES

External DATA	RS-232, MIL-STD-188-114A
Programming Remote Control	USB/RS-232
Antenna	50 Ohm TNC
Audio	Six-pin standard

ENVIRONMENTAL

Temperature	-31°C to +60°C Radio -20°C to -60°C Radio with Li Ion Battery
Immersion	2 Meters
Test Method	MIL-STD-810F
Finish	Carc Green 383

WAVEFORMS

VHF/UHF AM and FM
APCO P-25 (optional) ^{Note 1}
VULOS 16K Retransmit

ACCESSORIES

30-870 MHz Blade Antenna
Rechargeable Lithium-ion Battery (included)
30-512 MHz 45 in. Blade Antenna
Operator's Manual (included)
RF-300M-TV Trimline Vehicular Amplifier
Audio Headsets, H-250 Handset
RF-300M-HV Vehicular Adapters
12041-3100-01 Lapel Speaker/Mic

Note 1: NSA approval required.

This information was approved for all publishing per the ITAR as "basic marketing information of defense articles" or as "advertising printed material" per the EAR. Specifications are subject to change without notice.

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