

Bastion HF Vehicular and Base Station Radio

The Bastion high frequency (HF) vehicular and base station radio is a dependable 1.8-30 MHz combat net radio with a built-in 100W amplifier for essential long distance voice and data communications. In analog mode, the radio is interoperable with legacy HF radios, and Selective Call mode function compatible with Barrett and Codan radios. In digital mode, the Bastion VHF mobile radio enables secure voice and PC to PC data transmission through the RF link. Furthermore, the Bastion HF radio may be programmed in FM mode on any channel to enable secure interoperability with all Bastion family HF and very high frequency (VHF) radios.

Additional features include selective call, voice operated transmit (VOX), HAIL warning, VFO mode, noise blanker, time-out timer, front panel remote option and optional internal automatic link establishment (ALE).



SPECIFICATIONS

System Characteristics

Frequency Range	0.5 - 30.00 MHz Receive 1.8 - 30.00 MHz Transmit
Frequency Step Resolution	10 Hz
Preset Channels	300
Power Supply Requirements	13.6 V
Operating Modes	A1A (CW); J3E (USB/LSB); A3E (AM); F1B (AFSK)
Frequency Stability	+/- 0.5 PPM (-10°C to 50°C) (14°F to 122°F) +/- 1 PPM (-20°C to 60°C) (-4°F to 140°F)
Security	Programmable AES 256 bit or voice inversion scrambler AES card offers both over-the-air zeroizing (OTAZ) and over-the-air rekeying (OTAR)

Receiver Characteristics

Receiver Sensitivity	-119 dBm/0.25 µV (1.605 ~ 30.0 MHz)
IF Rejection	80 dB
IF Image Rejection	70 dB
Squelch	Digital front panel selectable

Transmitter Characteristics

Power	5W/25W/50W/100W J3E/A1A/F1B 5W/25W A3E
Carrier Suppression	40 dB
Undesired Sideband	50 dB (@1.0 kHz tone)
Spurious Emissions	-46 dB

Antenna Tuner

External, automatic, digital display, 200 memory channels

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Environmental

Operational Temperature	-20°C to +60°C (-4°F to +140°F)
Testing	MIL-STD 810F

Physical Characteristics

Size	60 mm high x 179 mm wide x 338 mm deep (2.36 in high x 7.04 in wide x 13.3 in deep)
Remote Panel Size	60 mm high x 179 mm wide x 58 mm deep (2.36 in high x 7.04 in wide x 2.3 in deep) (projections not included)
Weight	3.5 Kg

Accessories

Antenna**	Various base station and mobile whips available
Antenna Connector	UHF SO238
Handset**	1. Fist microphone* 2. Microphone waterproof 3. 16-key microphone 4. 12-key microphone waterproof
Remote Front Panel Kit & Cables	2.4 m, 5.2 m and 7.6 m
Vehicular Mounting Kit	Vehicle and antenna brackets, mounts and cabling
Speaker	External speaker
Power Cable	DC cable
Data Cable	PC connector and cable
GPS Module	Internal port GPS module
Call Memory Storage	Voice storage module
Ignition Radio On/Off	Ignition sense module and cable
Power Supply	External power supply unit
Antenna Tuner	External antenna tuner unit

* included in standard configuration

** consult factory for various available options

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