

RF-3162-AT001
MULTIBAND SOLDIER
ANTENNA (30-512 MHZ)

multimission

multiband

one radio

The Harris RF-3162 is an omnidirectional, vertically polarized antenna designed for operation while directly attached to the operator's vest or rucksack. Using this antenna, a 1-kg 5 Watt handheld radio can achieve similar range performance as a traditional manpack radio with an integrated blade antenna. The RF-3162 has three parts: a multiband dipole antenna, a quick, reliable mounting assembly and a coaxial cable for radio connection. The operator has the option of folding the antenna (over the shoulder, for example) to keep it below helmet level. The flexible antenna body attaches to the soldier's clothing at two points — normally the belt and shoulder loop — and adjusts to body shape or movement to remain comfortable. A short coaxial cable connects the antenna to the radio, allowing the radio to be carried in a holster, pocket, or vest pouch.

The RF-3162 is ground-independent (center-fed), so it can be easily deployed in a variety of configurations to gain additional height and extend line-of-sight range. For example, a portable tactical mast may be used or the antenna simply hoisted over a tree limb while the radio itself remains at ground level.

The antenna is optimized for modern soldier data transmission and minimizes the effects of electromagnetic interference from handheld or laptop computers. When used with high-performance radios such as the Harris FALCON® II series, the RF-3162 becomes part of an exceptionally capable yet lightweight secure digital soldier radio system.



Specifications for the RF-3162

Electrical

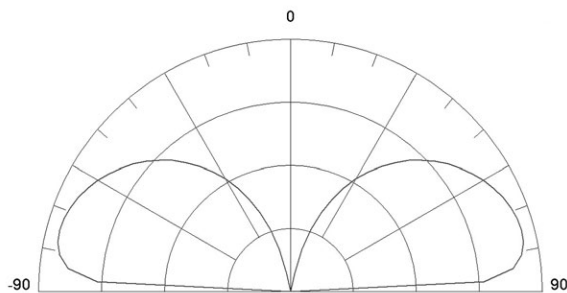
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|--------------------------|--|----------------------------|---------|
| Frequency Range | 30-512 MHz | VSWR | <3.5:1 |
| Polarization | Vertical | RF Output Impedance | 50 ohms |
| Gain | -15 to -2 dBi from 30 to 88MHz 0 to +2 dBi from 108 to 512MHz | Power | 10 Watt |
| Radiation Pattern | Omni-directional | Matching | Passive |

Mechanical

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|--------------------|------------------|----------------------|----------------------|
| Height | 1.7m (5.8 ft) | Environmental | MIL-STD-810F |
| Weight | <1.1kg (2.5 lbs) | Diameter | 2.5cm (1 in) nominal |
| Color | Black | RF Connection | TNC |
| Submersible | 20 meters | | |

Features

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|----------------------------|--|--------------------------|---|
| High Gain Antenna | VHF Dipole, UHF Dipole | Range improvement | Outperforms "Rubber Duck" on higher power MP radios |
| Light Weight | Lighter equipment load compared to manpack | Ergonomic Design | "Goose neck" design conforms to operators' body |
| Multi-configuration | Body-worn or remote/Elevated mounting | | |



Typical Radiation Pattern

Optional Configurations

RF-5800M-DS001
MB Dismounted Communication System

RF-5800M-DS101
MB Dismounted Communication System With Internal GPS

Both Include:

- RF-5800M-HH Handheld Radio
- 2 High Capacity Li-Ion Batteries
- RF-3162-AT001 MB Soldier Antenna
- Antenna Elevation Kit
- Holster
- Rubber Duck Antenna
- VHF Blade Antenna
- Accessory Bag

Specifications are subject to change without notice.