

RF-1937
HF TRANSPORTABLE
GROUND STAKE
ANTENNA

for use with
deployable applications

The RF-1937 is a transportable, vertically erected, ground station antenna designed around the SB Series whip antennas. The maximum RF input power is rated at 1 kW. It can be used at lengths between 16 feet (4.9 m) and 32 feet (9.8 m), and requires the use of an RF-382 or RF-2601 automatic antenna coupler.

The kit comes packaged in a canvas carrying bag and contains everything needed for quick deployment by one or two people. Included is a guy rope assembly for semi-permanent installations and four ground radials on reels for improved radiation performance. Designed for ground level mounting, the base mount is installed on a base stake driven into the ground.



Electrical

- **Frequency Range**
2 to 30 MHz with RF-382 or RF-2601 Antenna Coupler
- **RF Power Capacity**
1 kW
- **Input Impedance**
Compatible with RF-382 or RF-2601 Antenna Coupler
- **Radiation Pattern**
Elevation: see Radiation Pattern below
Azimuth: omnidirectional
- **Polarization**
Vertical
- **VSWR**
In accordance with RF-382 or RF-2601 Coupler specifications
- **Gain**
Full 32 ft. -1 dBi @ 4 MHz
+1 dBi @ 16 MHz
+1 dBi @ 24 MHz

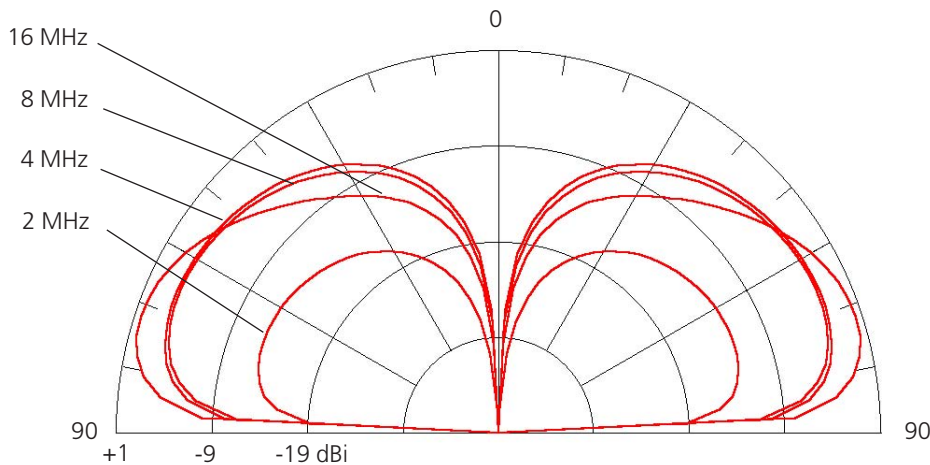
Mechanical

- **RF Connector and Ground Radials**
Wing nuts on antenna
- **Dimensions**
Deployed: 80' W x 32' H
Stowed: 6" x 6" x 54" (0.15 x 0.15 x 1.37 m)
- **Finish**
Military Green
- **Weight**
10 lb (5 kg)
- **Installation Time**
20 minutes, 2 people

Environmental

- **Temperature**
Operating; -40° to +60°C
- **Relative Humidity**
0 to 100%
- **Wind** (Depending on soil density)
16 ft. (4 sections) 80 mph without guys
32 ft. (8 sections) 35 mph without guys
32 ft. (8 sections) 90 mph with guys

Radiation Patterns Over Average Ground



RF 1937 Elevation Radiation Pattern for 32 ft. (8 section) version

Specifications are subject to change without notice.