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.
Specifications for the RF-1937

**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

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Radiation Patterns Over Average Ground

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