

Gipsy Portable Dipole Antenna Manual Rev. A

By CRKITS.COM

Thanks for purchasing Gipsy series portable dipole antenna designed and manufactured by Windcamp and distributed by CRKITS. CRKITS is available for consultation by email at rongxh@gmail.com and at the Yahoo group http://groups.yahoo.com/group/CHINA_QRP/. No matter you work QRP or 100W QRO, no matter you use for base station in building or field day operation, Gipsy's original and serious design will bring you good QSO experience.

Features

1. Efficient BALUN design
2. Reel for both BALUN and wire, with compass and ruler for direction finding and wire trimming
3. Innovative wire fast tuner for fast resonance tuning
4. Classical full size dipole antenna for performance consideration
5. Carrying bag and reel make it easy to pack and carry

Technical Specifications

Band: 40m or 20m single band

SWR: no higher than 1.5 in band

Impedance: 50 ohm

Power: 100W PEP

Connector: SL-16 (M or SO239 equivalent, thread might be different)

Wire: AWG #16 wire

BALUN: 1:1

Package size: 190x130x50 mm

Weight: 420 grams

Part List

BALUN 1 pcs

BALUN hanging rope 1 pcs (for inverted V installation)

Wire 1 pair

Reel 1 pcs

Carrying bag 1 pcs

Allen Wrench 1 pcs (for wire fast tuner)

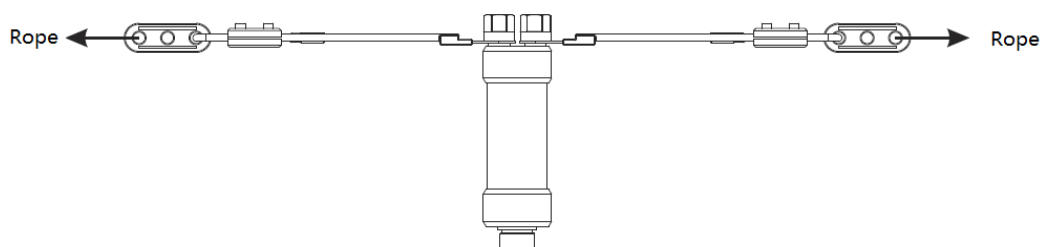
Extension wire 2 pcs

Installation

Choose open area without shielding and keep the antenna a few meters higher than ground or roof. If the lowest part of the wire is no lower than 3 meters above ground or roof, it is easy to achieve a good SWR lower than 1.5. The best performance direction is vertical to the wires, so you can use the compass on the reel to make sure you install in right direction to achieve best performance for the target station. Two common installation ways are introduced below.

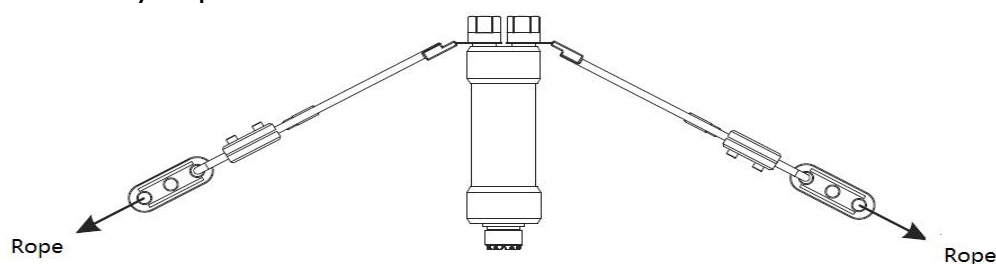
Horizontal installation

Horizontal installation is the most common installation for a dipole. See the figure below. The two ends of the antenna wires are affixed to support poles or trees by rope, and pulled straight and away from the ground.



Inverted V installation

Inverted V installation is a variant of horizontal installation. See the figure below. Only one support pole or tree is needed for inverted V installation, so it is easier. Use the BALUN hanging rope to hook the BALUN to the top of the pole or tree limb, then pull straight and fix the wire ends by rope.



Trimming

Gipsy antenna was trimmed in factory, so normally it is possible to achieve good SWR in the whole band. When the environment changes, the resonance frequency might change, so it becomes necessary to trim the length of the wires. If the resonance frequency is higher than expected, you will need to install the extension wires and trim to the best resonance. If the resonance frequency is lower than expected, you will need to cut the wires a bit by loosening the fast tuner screws by Allen Wrench and cutting the wire ends to the best resonance.