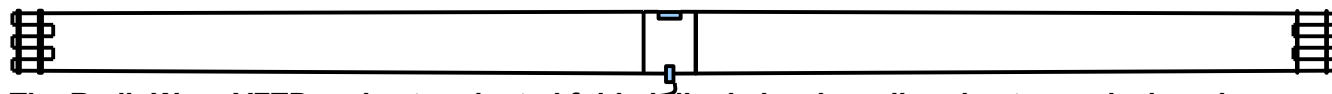
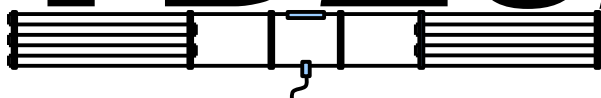




## Variable Folded Terminated Dipole

# VFTD20/65



The RadioWavz VFTD series terminated folded dipole is a broadband antenna designed for fixed station, multi-frequency applications. The antenna can be mounted horizontally between two support systems, or as an inverted 'V' using a single central support mast. This antenna type is widely used by military, commercial and broadcasting services. The VFTD antenna line is made with extremely durable UV Insulated stranded flexible wire. The VFTD series is designed to allow for variable site installation, to maximize available space.

- Maximize available space!!
- Can expand to 3.25 times its compressed size!!
- Pre Tuned no measuring or cutting!!
- Easy to install
- Fantastic NVIS performer
- Great for ALE Applications.
- An excellent broadband antenna.
- Ground Independent.

### Specifications:

Impedance: 50 Ohm nominal

Bandwidth :3.5-30 MHz,

Length : 20 ft.(6m) expandable to 65ft. (19.8m)

Power : 1.5kw Impulse

: 500w PEP SSB

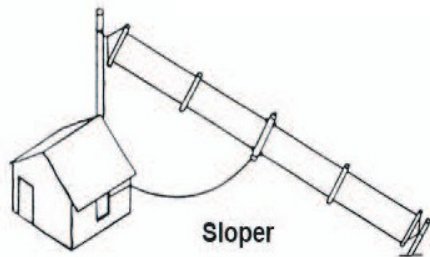
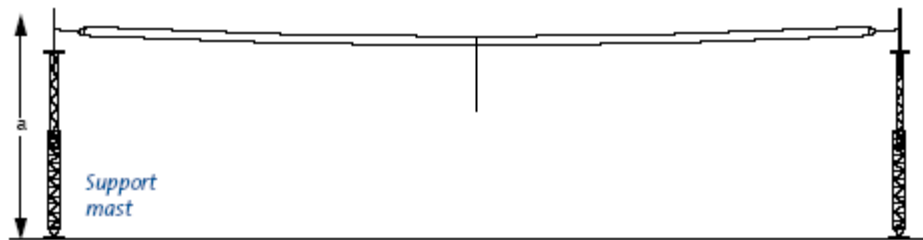
: 200w AM/FM/RTTY

Connector : SO 239

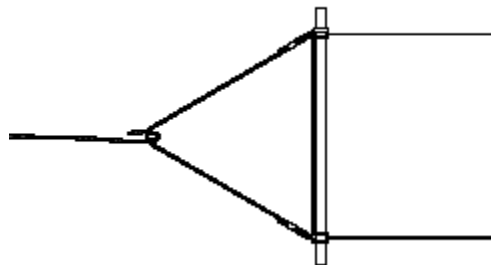
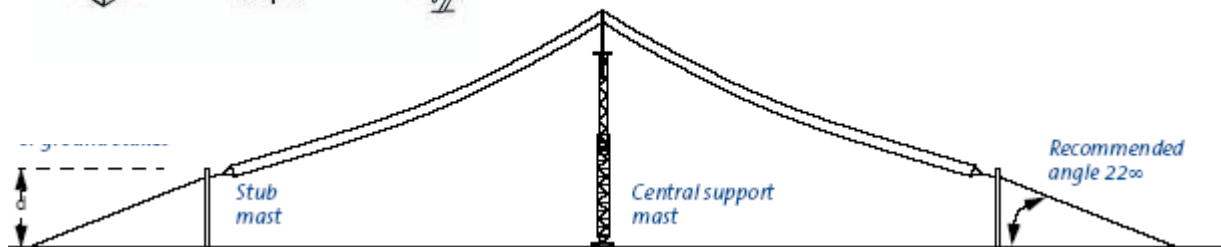
Options : 800W AM / 1000W AM / 2000W AM / 3000w AM Power upgrades

# RadioWavz Double Bazookas G5RV's Dipoles

Flat top



Inverted 'V' mounting



One of the most important components in any radio station is the antenna. It is important to take time and plan out your installation.

## Antenna Safety

*Under no circumstances will RadioWavz be liable for any damages or consequential damages arising from use or misuse of our products.*

The installation or dismantling of any antenna near power lines is dangerous. Each year hundreds of people are killed or injured while attempting to install or dismantle an antenna. In many cases, the victim was well aware of the dangers, but did not take adequate steps to avoid the hazards. For your safety and proper antenna installation, read and follow all safety precautions.

## Choose an installation site for safety as well as performance.

**All electric power lines, cable lines and telephone lines look alike. To be safe, assume ANY overhead line can kill you.**

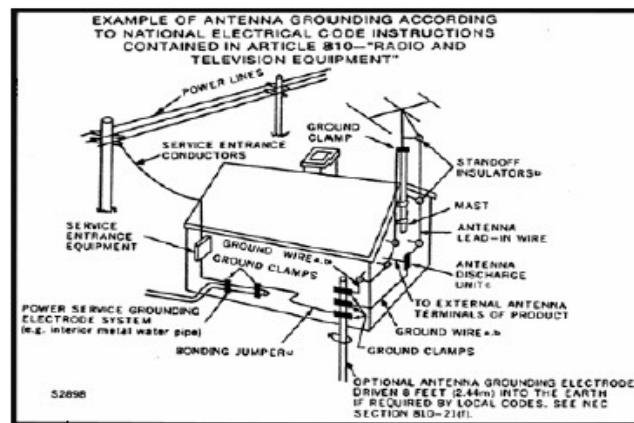
Do not place an antenna where it could potentially fall on to, or blow into a power line. To determine the SAFE DISTANCE follow these steps:

- (a) Determine the proposed height of your antenna.
- (b) Add the antenna length and the length of your tower mast.
- (c) Double the figure.

Your answer will be the minimum safe distance from the nearest power line that you should install your antenna.

Outdoor antennas should be grounded with an approved lightning arresting device. Local codes may apply. The radio should also be grounded to an earth ground to help protect both the radio and its user. Do not use hot water pipes or gas lines as a ground source.

OUTDOOR ANTENNA GROUNDING-If an outside antenna system is connected to any radio receiver or transmitter, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No.70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. Also refer to the ARRL's antenna safety instruction.



## Installation

- (1) Prepare supports, paying attention to best possible height, antenna configuration, and alignment. Do not install parallel to power lines.
- (2) Unpack the antenna. Lay it on the ground, the two rolls separated and the components laying in the middle.
- (3) Cut enough rope to support the antenna side tubes.
- (4) Uncoil one half of the antenna. Avoid twisting, kinking. Keep the antenna taut during uncoiling. Save the coil tubes for future storage.
- (5) Install the rope as shown in the diagram above. If you keep the top arm of the rope a couple inches shorter than the bottom arm, the antenna will hang in a proper vertical position instead of rotating flat.
- (6) Attach your coax cable and raise the antenna up in the air. Again avoid twisting, kinking or springing.
- (7) Run transmission line to the station. Run the transmission line down to the ground, and perpendicular to the antenna for as far as possible. This is important. Only use a sufficient length of transmission line to reach the station.
- (8) Your antenna is ready for operation. It is broadband and pre-tuned for an average SWR of 1.4:1 to 2.0:1 in HF.

depending upon the frequency used and surrounding objects, ground conditions, etc. The use of a good antenna tune may be required in bad locations, to manage the SWR to a workable level.

### **WARRANTY**

RadioWavz guarantees each product to be free from defects in material and workmanship for 90 days from date of purchase. The warranty applies to the original purchaser only, and we will repair or replace the product at our discretion. Under no circumstances will RadioWavz be liable for any damages or consequential damages arising from use or misuse of our products. Warranty is voided if product is subject to misuse, neglect, accident, improperly installed or used in violation of the instructions furnished by us. We reserve the right to make changes in design at any time without obligation to update previously manufactured models. This warranty is given in lieu of any other warranty, expressed or implied.



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