



A Heavy Duty, self supporting vertical HF antenna for HF 33' (10m) long. 40m/30m/20m/17m/15m Band antenna



## Description

Available through **WiMo Germany** and **DX Engineering in the USA** - for Direct factory supply, Email us for pricing and time lines.

[www.dxengineering.com](http://www.dxengineering.com) - [www.wimo.com](http://www.wimo.com)

**The InnovAntennas VertiGo - 33V. A 33' (10m) vertical of heavy duty construction for use on 5 bands between 40m and 15m** **VertiGo®-33V**

## Why choose an InnovAntennas 33' (10m) self-supporting vertical?

**Base Tube is 50mm diameter and tapers to 13mm diameter at the top of the antenna**

There are many multi-band vertical options out there. Most are shortened and make use of traps and coils in order to produce an SWR close to being acceptable to a modern transceiver. However, this does not make them effective or efficient radiators. Traps and coils are 'lossy' and a high % of your valuable Watts are lost as heat within these trap and coil arrangements and hence, not radiated!

The InnovAntennas VertiGo 33V uses its whole length as a radiator on every band. While it operates only as a 2-band antenna if direct fed (21MHz and 7MHz) An auto ATU placed at the base of the antenna (the only place an ATU should ever be) ensures that the antenna remains the only antenna in your system and not the coax too (as it would be if you use a radio-end ATU).

### **Benefits of 33 foot of radiator on 40m through 15m**

The vertiGo 33V is the best way to maximise your lower HF band DX experience in a small garden. While ground plane wires are best installed, the visual impact of this antenna (not having any guy ropes) is much less than say a horizontal wire what would need to be elevated and have at least 2 supports. With the VertiGo, you can mount at ground level without the detrimental impact of buildings and trees that you might expect on upper HF and VHF. Additionally, angle of radiation remains low (this means you hear and work DX!!) whereas with a horizontal wire you would need to have substantial height above ground to achieve the same. For example, if you were on 40m, your horizontal wire of dipole would need to be over 60' (19m) above ground (this height varies with frequency)!!

### **How well will it work?**

The VertiGo 33V will provide exceptional performance on **40m/30m/20m/17m and 15m**. However, while you may get a matched antenna and tune it on lower and higher bands, there are reasons why an antenna this size will not work as well on those bands. Keep in mind however that performance is likely to still be far superior to shorter, coil/trapped verticals!

**60m** - The antenna will still perform well on 60m although not being a full 1/4wl, a lot of would-be radiated current will remain in the ATU

**12m, 10m & 6m** - At the length this antenna is, radiated angle on these bands starts to increase so although the antenna will work, the results will be provide more local results rather and serious DX ones!

The VertiGo 33V is in its own class for making DX on the lower bands from very compact garden lots.

**The standard mounting arrangement will accept a 2" pole mount. Changes to this can be made upon request include specialist ATU mounting plates if required.**

The standard mounting is arranged to suit MFJ tuners but this can be adapted to suit any tuner layout **upon request**.

A 33' vertical is one of the best size compromises you can use for the lower HF frequencies and while a vertical of this size will work on 12m and 10m, the antenna is a little long for these bands meaning the angle of radiation is not quite as low as on the lower HF bands.

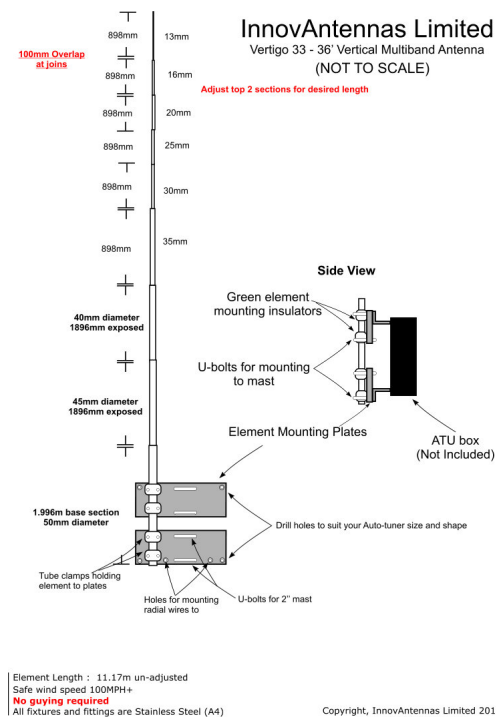
### **Built to last and be self-supporting**

As with all our antennas, this antenna is built to last. The antenna tapers from 1.75" to 3/8". However, the early sections of the antenna have very thick wall in order that forces transferred from the top of the antenna will not cause damage to the lower part of the antenna or base. The taper schedule has been computer optimised, not guessed!

Our antennas are constructed with the best quality materials in order that the best mechanical construction can be achieved, not the cheapest and most profitable!

1. **Marine grade Stainless Steel Fittings\***
2. **Original Stauff insulator clamps**
3. **Mill finished for highest levels of accuracy**

If you are looking for the best of the best from both a performance and mechanical construction perspective then look no further, you have come to the right place!





A typical installation with MFJ tuner installed (VertiGo 43V pictured). Optional ATU mount fitted



Rear side and mounting arrangement (VertiCo 43V pictured). Optional ATU mount fitted



Joins are swagged for maximum strength Marine-grade Stainless Steel fixings used throughout

Customer Comment:

"Just a few words about my 33ft vertical you supplied me 18-24mths ago before you started selling them..Its been a superb antenna and has held up in some very strong winds(70-80mph) here on the coast at Shoeburyness, Essex, UK.  
I've installed about 30 radials on a base plate and have had some very nice contacts around the world, mostly 40m but works very well on 20m and not bad at all on 17m with ATU. The DES-pole takes care of high bands.  
Keep up the fine work.

Kind regards  
Wayne (M0WBK)"

Performance

Angle of Radiation: 40m = 26 degrees, 30m = 24 degrees, 20m = 20 degrees, 17m = 16 degrees, 15m = 48 degrees

Maximum Power handling: 8KW

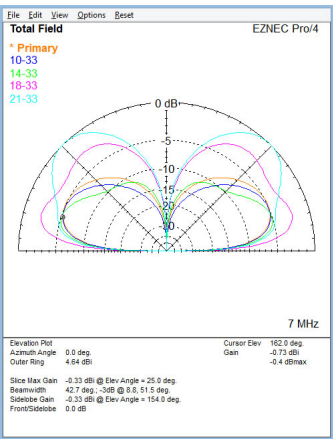
longest Section Length: 10m (33')

Weight: 6.02Kg / 13LB

Wind Loading: 0.1 Square Metres / 1.2 Square feet

Wind Survival: 160KPH / 100MPH

Other options available if higher wind loading/survival is required.



Pattern overlays above per band. 7MHz is in dark Yellow and first on the list



**Manufactured the right way, not the cheapest way!**

\*Where possible marine grade stainless steel components are used.

//