

A short-boom, high quality Log Periodic Dipole Array for 100MHz to 750MHz



## 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 Best VHF LPDA Log Periodic 100MHz to 750MHz

**Rear-mounted VHF Log Periodic Dipole array - 50? direct feed high power handling**

### The Log Periodic Dipole Array - What is it?

*A log-periodic antenna is a broadband, directional antenna designed for high-frequency applications. It consists of multiple dipole elements of varying lengths arranged in a logarithmic pattern, allowing efficient operation over a wide range of frequencies.*

- **Key Features:**

- Operates effectively across multiple HF bands (3 MHz to 30 MHz).
- Maintains consistent impedance over its entire frequency range.
- Provides directional gain for improved signal strength.

- **Benefits:**

- Ideal for amateur radio and shortwave listening.
- Reduces the need for multiple antennas for different frequencies.
- Enhances communication reliability in variable conditions.

**100-LOG-750 - 100MHz to 750MHz Log Periodic Array (LPDA) is a 50? direct fed directional wide band beam antenna for receiving and transmitting purposes. This antenna can be mounted vertically or horizontally and can handle up to 1KW of transmitted power.**

## Customer Comment:

*"Hi Justin, i am using vertically because nearly all the stations I listen to have verticle antennas. I have it installed ontop of a Yaesu g450 rotator*

and I already notice 4-5 s point increase in some signals. I was using a icom ah8000 discone.

I can also hear Ncl Volmet at s 9 + up from s5. So very happy. I will try to get a pic later..Brian"



**As with all InnovAntennas products, only the highest quality materials are used including aerospace grade aluminium and marine grade (A4) stainless steel.**

The 100-LOG-750 uses a twin-boom arrangement as a feed line as well as a dipole support. the feedlines are tapered in spacing to remove impedance spikes across its very wide bandwidth which are common in some badly designed LPDA's. 13mm diameter elements are used to ensure maximum gain and bandwidth is achieved along with Front to Back ratio (F/B) and **a specially designed 3 element parasitic element cell has been placed in the feedline in front of the antenna to enhance top end performance**, an area where traditional Log Periodic Arrays fall short.

Often, LPDA's are designed with a 200 $\Omega$  feed point which ensures bandwidth. However, this results in the need for a 4:1 transforming balun which both reduces efficiency and limits any input power too. The 100-LOG-750 has been computer optimised to present a 50 $\Omega$  feed point to allow for direct connection to coax cable and thus, power limitations are largely removed.

***For all your Log Periodic requirements, contact InnovAntennas***

### **100-LOG-750 Specifications:**

**Typical Gain:** 7.5dBi

**Peak Gain:** 9.7dBi - @ 750MHz

**Typical F/B:** 20dB+

**Input Power (max):** 1Kw

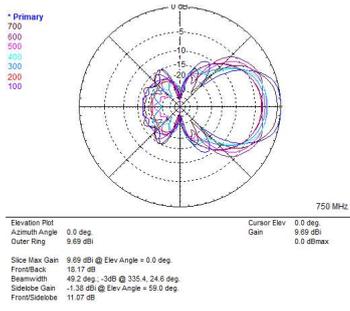
**Boom Length:** 1290mm

**Weight:** 1.4Kilos

**Wind Survival:** 150MPH+/250KPH+

**Contact us with any questions you may have relating to your specific requirements or frequency ranges you would like to cover.**

# Best VHF Log Periodic Array 100MHz to 750MHz



**Pattern overlay between 100MHz and 750MHz showing good F/B throughout**

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