**DUAL POLARIZED LOG PERIODIC DIPOLE ANTENNA**

**Model**  LPDP-30-1000  
30 – 1000 MHz.  
5 to 8 dBi. Gain  

**DESIGN FEATURES:** The LPDP-30-1000 dual polarized log periodic antenna is designed to provide wideband directional transmission/reception of horizontal and vertical radio signals from 30-1000 MHz bands. The extra spacers are used between the support booms to improve mechanical durability of antenna. The specially designed mounting arrangement results in fast installation. This dual polarized log periodic dipole antenna system is particularly suitable for transmission, reception, monitoring, scanning and jamming applications due to its capability of receiving/transmitting both the E & H polarized signals simultaneously. This high gain LP provides strong performance over the entire frequency of 30-1000 MHz as the LPDA does not use loading technique to reduce the overall size of array.

**CONSTRUCTIONS:** The LPDP-30-1000 assembled log periodic antennas outer-most dimensions are 5.1 meters (16.7 feet) long and 5 meters (16.5 feet) width & height. The antenna has foldable elements, the longest of which is 2.5 meters. All elements are supplied in two segments for easy of shipping and handling. The elements are attached via a fast deployment self-locking device at points along the boom. The log periodic antenna operates at D.C. ground with low resistance discharge path for protection against lightning and immunity to noise. All the screws, nuts and bolts of log periodic dipole antenna are made of stainless steel.

**ELECTRICAL SPECIFICATIONS:**

- **Frequency Range:** 30-1000 MHz.
- **Gain - Typical:** 5 to 8 dBi.
- **Bandwidth:** Entire Band
- **Polarization:** Dual - Vertical and Horizontal
- **Input Impedance:** 50 Ohms
- **Radiation Pattern:** Directional
- **Horizontal Beam width – Half power Points:** 90 +/- 10 Degrees Typical
- **Front to Back Ratio:** 14 +/- 2 dB. Typical
- **VSWR – Better Than:** 2.5:1
- **RF Power Handling Capacity:** 500 Watts
- **Input Termination:** 2 x N-Female
- **Lightning Protection:** DC Ground

**MECHANICAL SPECIFICATIONS:**

- **Support Booms & Radiating Elements Materials:** 6063T6 Aluminum Alloy
- **Mounting Hardware - Materials:** Marine Grade Stainless Steel
- **Net Weight Approx.:** 45 Kgs.
- **Wind Rating:** 180 km/Hr.
- **Overall Length:** 5.1 Meters.
- **Overall Width:** 5.0 Meters
- **Shipping Length:** 2.7 Meters

**ENVIRONMENTAL SPECIFICATIONS:**

- **Operating Temperature:** (-)30 to + 70 Degrees Celsius
- **Storage Temperature:** (-) 40 to +80 Degrees Celsius
- **Humidity:** 0 to 95 % RH

**RECOMMANDATIONS:**

Selon la puissance injectée ne pas stationner dans l’axe de l’antenne à moins de 10 mètres pour une puissance de 100 watts émetteur (850 watts de PAR). Calculateur des distances de sécurité Rester en deçà du seuil maximal des niveaux réglementaires. Consulter le Portail Radiofréquences de l’Etat Français
LPDP 30-1000 MHz. Avec mâtéraux en fibre de verre.

Courbe de gain Typique