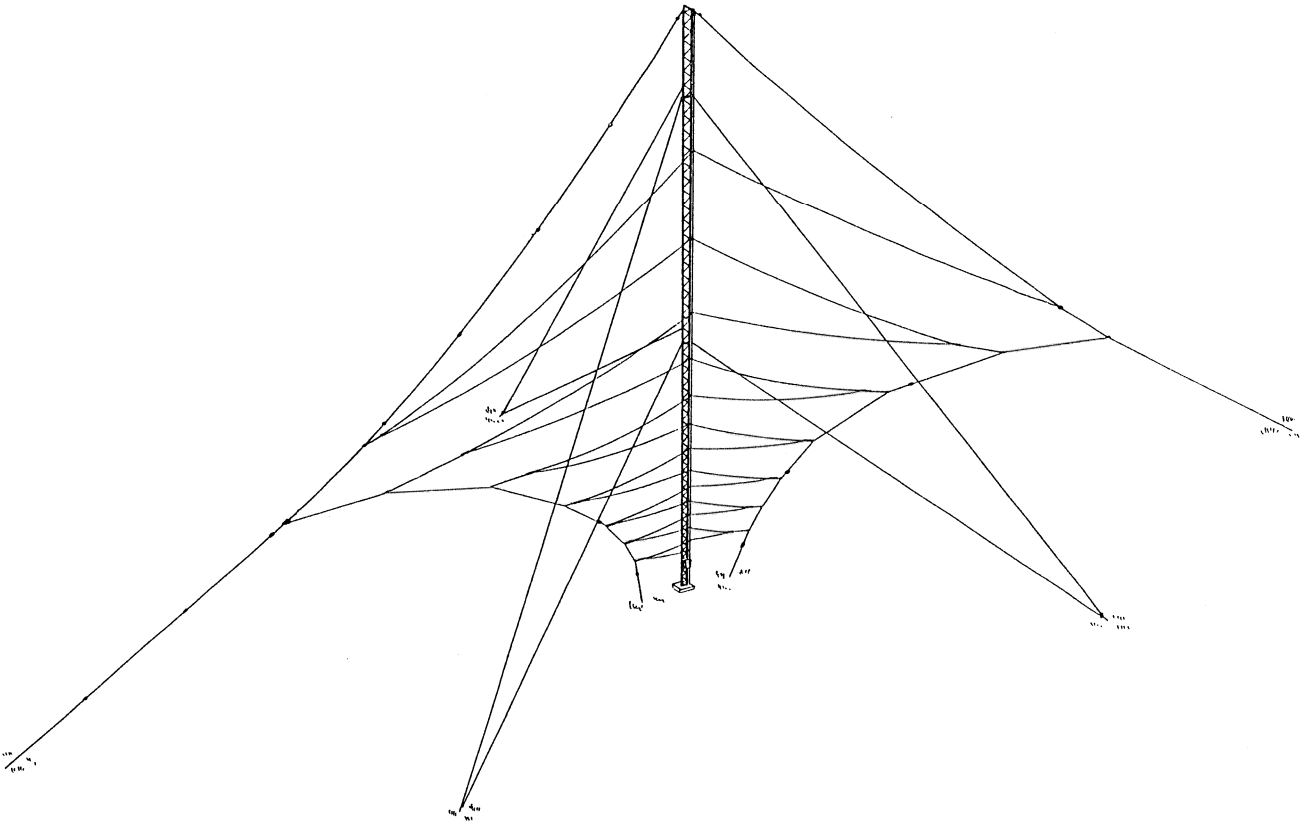




Short Range Log-Periodic Antenna

- ★ Short to Medium Range, 50-250 Km
- ★ Bidirectional (Essentially-Omnidirectional)
- ★ Quickly Erected
- ★ High Efficiency
- ★ Horizontally Polarized

320V



Model 320V, illustration

The CD 320V are horizontally polarized log periodic array specifically designed for communications from 50 Km to 2500 Km. Covering 3 to 26 MHz frequency ranges, the antenna exhibit omnidirectional characteristics at the lower frequencies and bidirectional characteristics at the higher frequencies. To overcome the limitations of short distance ground-wave communication, the antenna utilize high-angle skywave propagation at the lower frequencies. Maximum vertical plane radiation occurs at lower takeoff angles as the frequency increases to allow propagation over longer paths. The broad band characteristics and 2.5:1 maximum VSWR exhibit over the entire operating range make the Model 320V an ideal replacement in situations where several antennas have been previously required. Structurally, the antenna supported by a single galvanized steel tower, there by decreasing installation costs, maintenance costs, and the required land area.

SPECIFICATION SUMMARY

Model Number	320V-1	320V-2
Frequency Range	2.5 to 26 MHz	3 to 26 MHz
Polarization	Horizontal	
Gain	Comparable to 1/2 Wave Dipole	
Input Impedance	50 ohms	50 ohms
VSWR	2.5:1 maximum	2.0:1 maximum over 80% of frequency band
Efficiency	87 to 97%	
Radiation Pattern	Bidirectional (Essentially-omnidirectional)	
Power Handling Capability	Refer to NOTE below.	
Tower Height	27.5m	22.5 m
Site Dimensions	guy-to-guy 24 x 98 m	20 x 80 m
Net Weight	760 kg	550 kg
Wind Loading Capability	45 m/s	45 m/s

NOTE: 1) As shown in the above specifications of VSWR are the average soil.

2) Use appropriate sub-model number when specifying or ordering a system.

- 1. Equipped to Receive or 50 W Transmit. type -N- Female
- 2. Transmit 1 kW average/2 kW PEP. type -N- Female
- 3. Transmit 5 kW average/10 kW PEP. 7/8" EIA. Female
- 4. Transmit 10 kW average/20 kW PEP. 1-5/8" EIA. Female

Elevation and Azimuth Patterns (Azimuth Pattern at 30° elevation) in dBi

