



# INVELCO, S.A.

## INVESTIGACIONES ELECTRONICAS Y COMUNICACIONES

[invelco@invelco.com](mailto:invelco@invelco.com)



[www.invelco.com](http://www.invelco.com)

### **2-30 MHZ 1000W PEP BROADBAND ANTENNA MODEL AT-110-D**

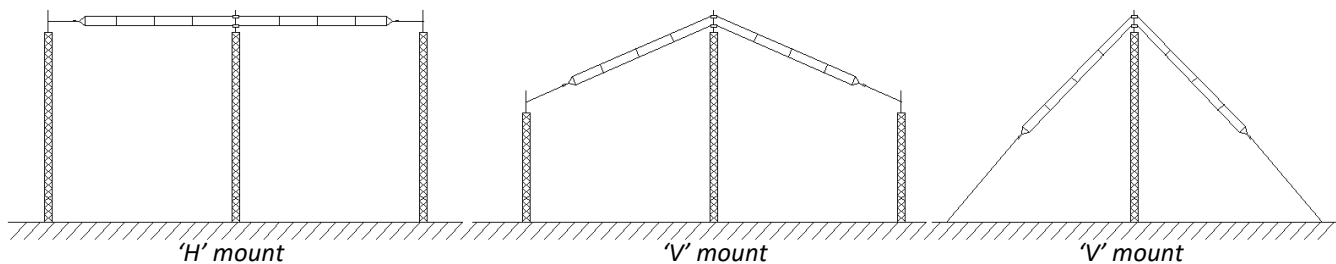
This antenna, easy to install, is the ideal complement for fixed radiocommunication equipment that use HF band in discrete jumps. The absence of mobile or switching tune elements guarantee that the tune time before a frequency change is null, therefore assures that this antenna is the best solution for systems of scanner or A.L.E. type in which the absence of tune times is of vital importance.

- HF antenna with coverage 2 to 30 MHz (broadband).
- Broadband antenna of passive type, with no antenna coupler.
- Ionosphere communications.
- Complete coverage of HF band.
- No need of antenna coupler.
- Null tune time.
- Low weight.
- Resistance to winds higher than 180 Km/H.
- Three types of assemble according to needs.
- Maximum operating power higher than 1KW pep.



## 2-30 MHz 1000W PEP BROADBAND ANTENNA MODEL AT-110-D

### TECHNICAL CHARACTERISTICS



#### TECHNICAL SPECIFICATIONS

Nominal impedance ..... 50  $\Omega$ .

Operating power ..... 1000W pep.

Frequency range ..... 2 to 30MHz.

Dimensions (\*\*)..... Maximum 30 mts, per arm

Weight without masts ..... 8 Kg.

RF connector ..... UHF fenake.

Stationary wave relation ..... <2.5:1 typical 1.5:1.

Wind resistance ..... 180 Km/H.

Tune time ..... No need.

Work.....Continuous at full power.

Gain from the isotropic .....>3.3dB all band.

Maximum Gain .....>8,5dB.

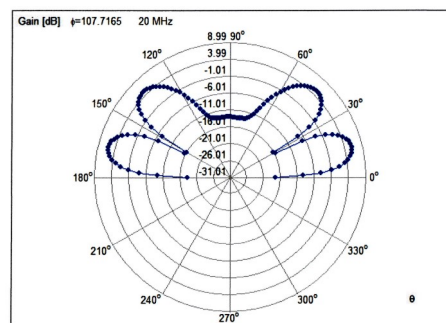
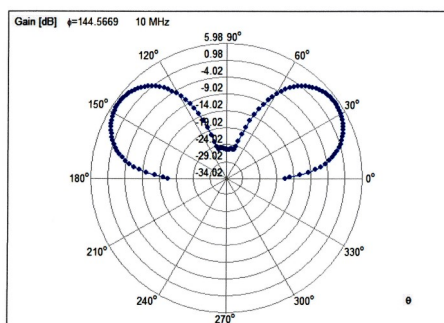
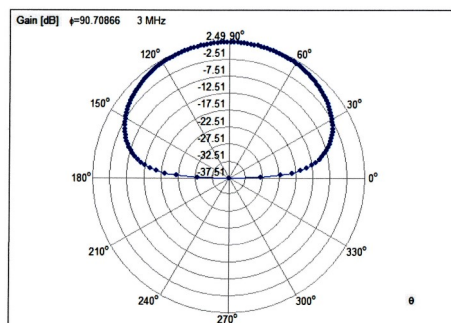
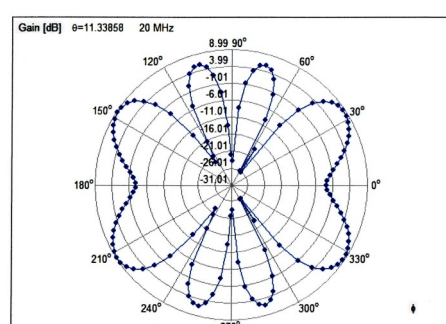
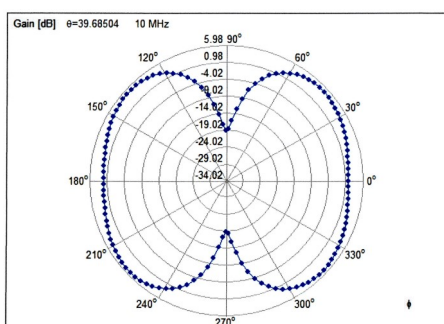
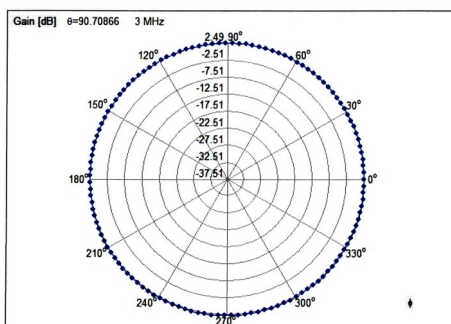
Operating temperature .....-20°C to +60°C.

No need or use tune units.

Ground plane no necessary

No mobile mechanical elements, motors, condensers, etc.

Power supply cable (depending on power an lenght) RG58, RG213, Cerflex.



(\*\*) The arm length of 30 meters, can be reduced to lower values, up to 10 meters per arm. This can be done without varying the "stationary wave relation" specifications. It is done by reducing the performance of radiation. But it is always advisable to use the longest possible length.

**INVELCO S.A.**

Ronda de Poniente 15, 28760 Tres Cantos (Madrid) – España  
Tel: (+34) 918 032 444 Fax: (+34) 918 033 228  
www.invelco.com invelco@invelco.com

Page 2

