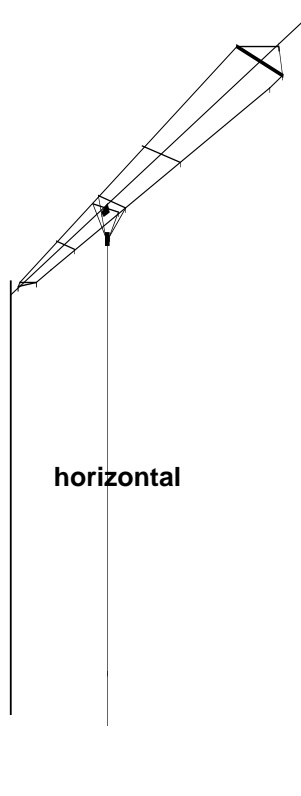




## Type HF FD 2-30

### HF folded dipole broadband base station antennas

Designed as an efficient HF broadband base station system for short to medium range communications without the need for an antenna coupler.



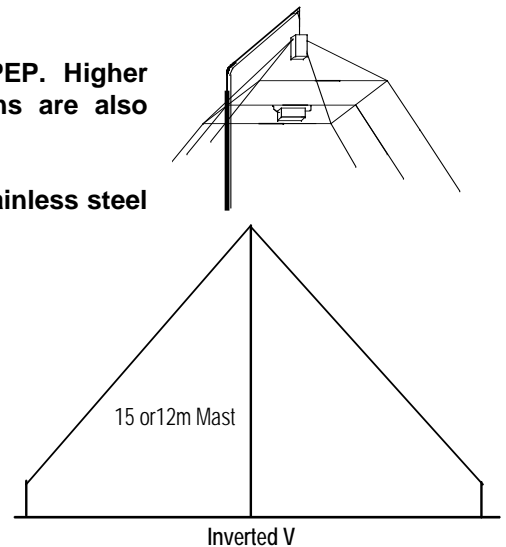
horizontal

The HF FD 2-30 antenna systems are easily erected in either a horizontal configuration between two towers or masts (not supplied) or in the space saving *inverted v* configuration from a single tower or mast (Moonraker type 15GM is suitable), with a horizontal support stand-off, gibbet, at the top.

The standard power capability is 250W PEP. Higher power 1kW PEP and 1kW CW versions are also available.

Radiating elements are of heavy duty stainless steel wire rope for strength and long life, even in corrosive atmospheres. Fittings and connections are of stainless steel with high quality insulators. Spreaders are of heavy duty UV stabilised material. Internal antenna components are completely encapsulated for protection from water ingress and insects.

The system provides efficient communications over the MF/HF range from 2.0 to 30 MHz for the full version and 3.0 to 30 MHz for the compact version.



Inverted V

## SPECIFICATIONS

<b>Frequency Range</b>	2-30 MHz full version; 3-30 MHz compact version
<b>Impedance</b>	50 $\Omega$ (nominal)
<b>VSWR</b>	Typically <1.8:1 2-16 MHz; 2:1 16-30 MHz (50m full version horizontal), as measured at the input to 30m coaxial feeder
<b>Power Capability</b>	100w CW 250w PEP; high power 250w CW/1kW PEP, and 1kW CW/2kW PEP available
<b>Connection</b>	Via coaxial cable (not supplied) to SO239 socket on balun box
<b>Antenna Lengths</b>	50m (167ft) full version; 30m (98ft) compact version
<b>Recommended Mast/Tower Height</b>	Mast/tower: 50m full version 12-15m (40-50ft); 30m compact version 9-12m (30-40ft); 9m (30ft) minimum; two required for horizontal configuration. Horizontal support gibbet (for inverted V) 800mm (2.6ft) out from top of mast.
<b>Mast/Tower Spacing</b>	Horizontal: 50m/15m Mast 52m (170 ft) minimum; 30m/12m Mast 32, (105ft); Inverted V: 50m/15m Mast 44m (144ft); 30m/12m Mast 22m (72ft)
<b>Gain (peak)</b>	better than 5dBi full version
<b>Wind Rating</b>	200 km/h (120 mph), higher ratings available
<b>Packed Weight</b>	8 kg (17.6 lbs) full version
<b>Packed Size</b>	167x21 x 17 cm (65.8 x 8.3 x 2.5 in)

Specifications subject to change – Issued 07/13



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