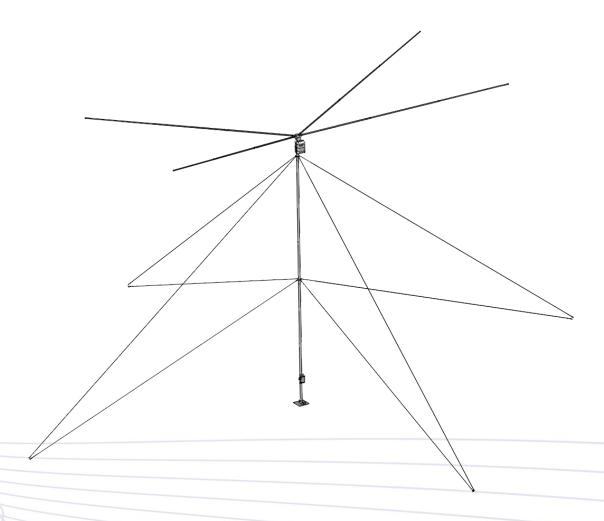


2.5 - 30 MHz



4005 shown deployed on the supplied 6m mast

The Lencom® 4005 active HF base station antenna belongs to the same family as the 4002 and 4006 vehicular tuners.

It is optimised to tune its four, 4.8m, dipole elements to a VSWR less than 1.5:1 over the whole range of 2.5 - 30MHz, with no gaps.

The unique tuning algorithm provides a memory-tune location for all frequencies between 2.5 — 30MHz.

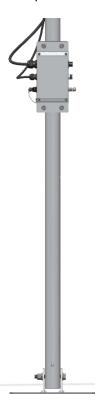
The memory tuning time of <150mS makes the 4005 the ideal tuner for networks using ALE and/or frequency hopping, with tuning times for new frequencies averaging less than 1 second.

The 4005 is extremely rugged and meets MIL-STD 810F for waterproofing (IP68), shock, vibration and dust ingress.



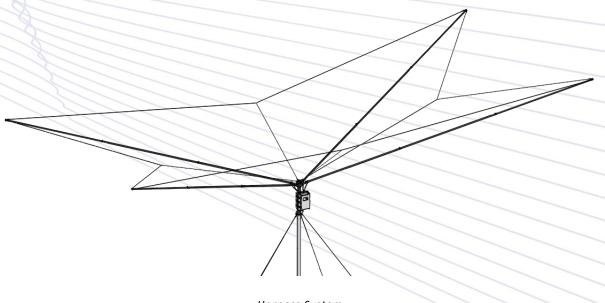
2.5 - 30 MHz

An Interface Unit is installed at the base of the mast, and provides system earthing, as well as an optional external DC power input to increase cable length.



Interface unit attached to mast

The unique harness system contains the arms and provides a wind rating for the Cat's Whisker of 200km/h in free air.



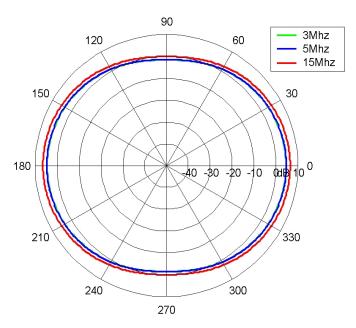
Harness System

04

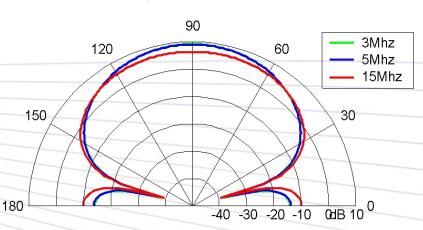


2.5 - 30 MHz

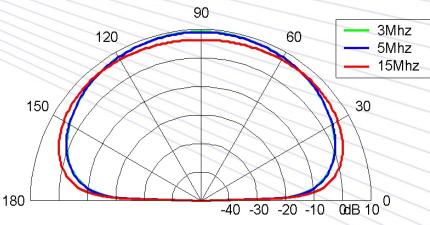
Key Characteristics – Radiation Patterns



Azimuth pattern, 35° elevation



Elevation pattern, 90° azimuth



Elevation pattern, 0° azimuth



2.5 - 30 MHz

Key Characteristics - Electrical and Mechanical

Electrical Frequency range 2.5-30MHz 125W PEP Power rating Typically 400mA Power consumption Tuned Tuning <800mA 50Ω Input Impedance **VSWR** Typically 1.5:1 Tuning speed Average < 1 second New frequency <150mS Memory tuning Memory channels Unlimited - unique non-linear memory allocation Efficiency Typically >40%

M	20	ha	nic	اد،

Mechanical		
Temperature Rating		-30 to +60° C
Wind Rating		200km/h free-air, no ice
DC operating range		10 to 16VDC
Protection		Open circuit antenna
		Short circuit antenna
		Over temperature
		High VSWR
		Voltage transients
EMC		Compliant
Shock and vibration		MIL-STD-810F (Dust,
		vibration, water ingress to IP68)
		Case pressure-equalisation device fitted
Dimensions	Tuner body	300mm x 250mm (including connectors) x 190mm
	Total, including arms	4m x 9m
Weight	ATU & Interface Unit	11.5kg
	6m Mast	22kg
Control cable		Codan 3040/9350/3042/3046, 20m
Connectors		RF: N socket
		Control: 6 pin bayonet (Mil-spec)
Case construction		Bespoke diecast aluminium alloy
Colour		White

Specifications subject to change without notice