



Features

- 3 MHz to 30 MHz frequency coverage
- Efficient – tuned on each frequency
- Simple installation in space restricted areas
- Broadband amplifier in receive mode
- Memory tuning – less that 10 mS

The Barrett 2017 Automatic tuning horizontal dipole is designed for base station applications where space is at a premium but high performance is still required.

Mounting on a standard 50 mm pole the Barrett Automatic tuning horizontal dipole can be mounted as close as 6 metres from the ground making it extremely easy to install. With a packed length of only 2.1 metres the antenna can be easily transported by air.

The integral receive preamp provides impedance matching during scan mode operation for reliable scanning and link establishment operation using modern radio protocols. The tuner has a memory system that stores tuning information for each channel after an initial tune sequence.

Assembly fixtures are supplied to assist in mounting the antenna to an existing mast, tower or pole. Alternatively a range of suitable masts can be supplied with the antenna.

The Barrett 2017 is supplied standard with a 30 metre composite control, RF cable and connectors to interface with Barrett 2050 transceivers.

General specifications

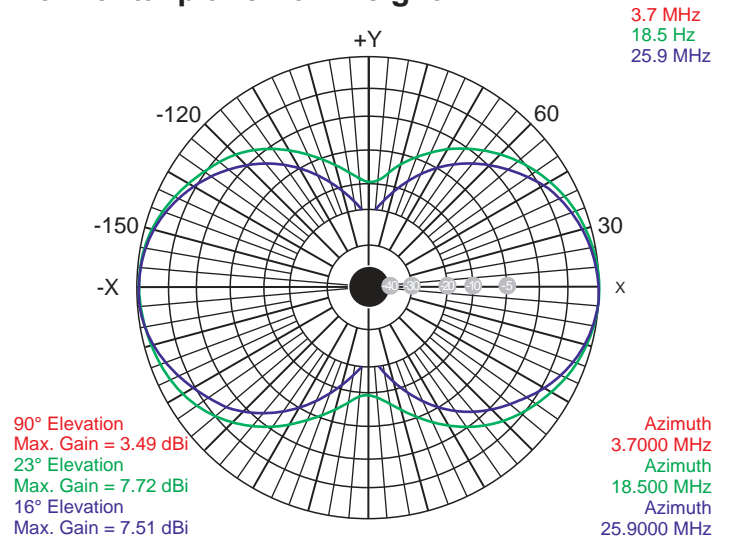
Frequency range	3 MHz to 30 MHz
VSWR	1.5:1
Polarisation	Horizontal
Impedance	50 ohm
Power input	200 W PEP maximum
Width deployed	8 metres
VSWR: (typical)	Typically less than 1.4:1
DC input requirements	+13.8 V DC (Derived from 2000 series transceiver via integral RF control cable)
DC operating range	+10 to 15 V DC
Input current average	0.9 Amps
Tuning time - first tune	Less than 2 seconds - typical
Tuning time - from memory	Less than 10 mS - typical
Memory addresses	170
Operating temperature	-35°C to +70°C
Antenna weight (total)	10 kg

Specifications are typical. Equipment descriptions and specifications are subject to change without notice or obligation.

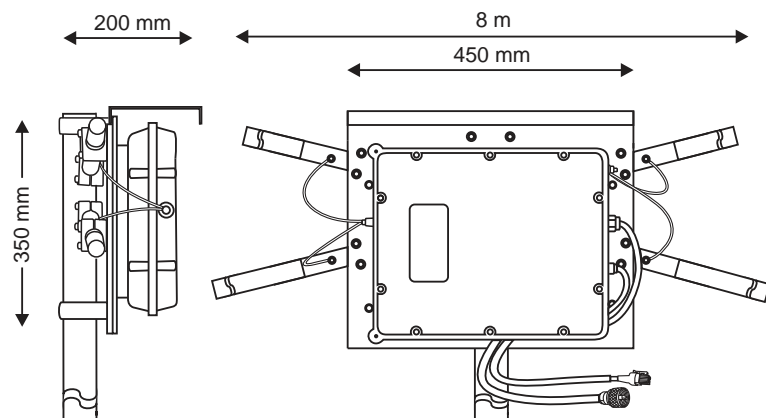
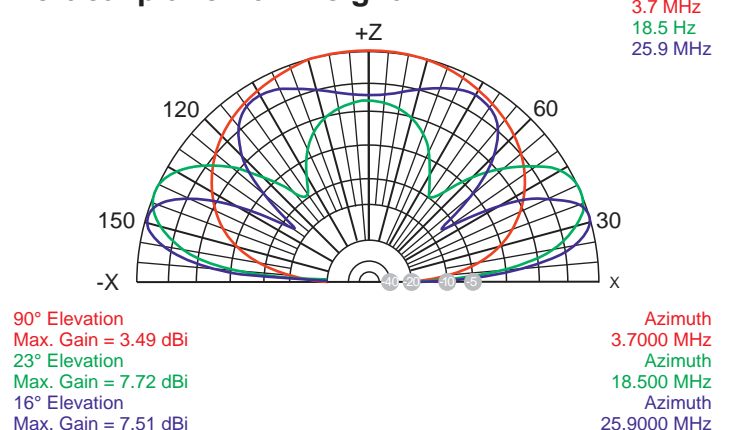
Radiation pattern

This antenna will operate acceptably down to heights of 6m. Improved gain is available as height approaches 10m, although radiation patterns will exhibit more lobes and nulls.

Horizontal plane - 6m height



Vertical plane - 6m height



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