



- **2 MHz to 30 MHz frequency coverage**
- **Efficient – tuned on each frequency**
- **Simple installation in space restricted areas**
- **Unlimited memory channels**
- **ALE compatible**
- **Frequency-hopping compatible**

The Barrett 4017 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 tuner has a memory system that stores tuning information for each channel after an initial tune sequence with unlimited capacity.

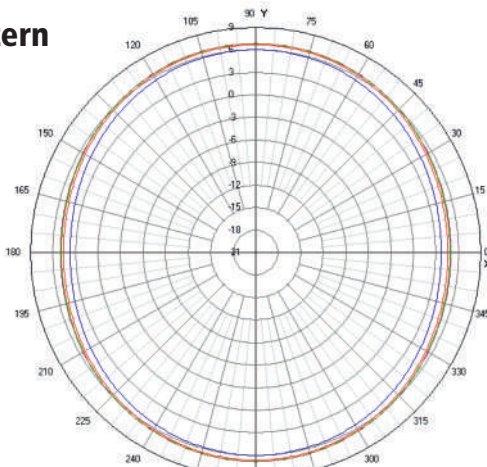
Assembly fixtures are supplied to assist in mounting the antenna to an existing mast, tower or pole. Alternatively a range of suitable masts can be supplied with the antenna.

The Barrett 4017 is supplied standard with a 30 metre composite control, RF cable and connectors to interface with Barrett 2050 transceivers.

## Radiation pattern

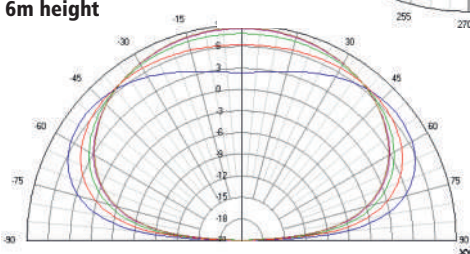
### Horizontal plane 6m height

Gain (dBi)	
3mhz	6.8
5mhz	6.8
10mhz	6.8
15mhz	6.6
20mhz	6.0



### Vertical plane 6m height

Gain (dBi)	
3mhz	8.6
5mhz	8.4
10mhz	7.7
15mhz	6.6
20mhz	6.9



## General Specifications

### Electrical

<b>Frequency Range:</b>	2 - 30MHz continuous
<b>Input Impedance:</b>	50 ohms
<b>Power Rating:</b>	150W PEP
<b>Connector:</b>	Connection to tuner RF terminal and Ground terminal via 2 x M8 studs (with HV and heavy-duty braid cabling connection via M8 cable lugs)

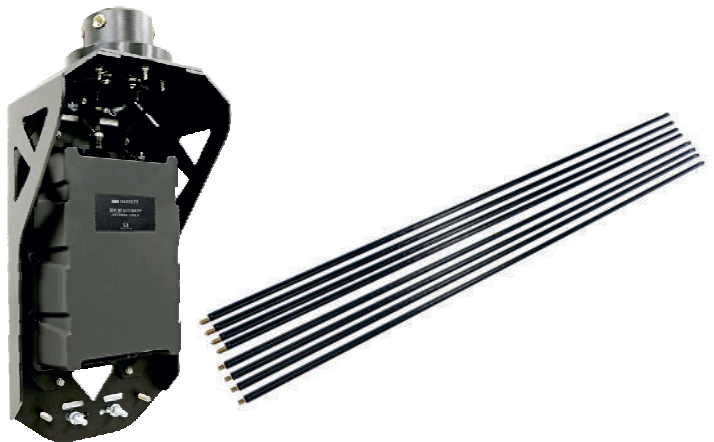
<b>Polarisation:</b>	Horizontal
<b>Radiation Pattern</b>	Omni-Directional in horizontal and vertical planes
<b>DC input requirements</b>	+13.8 V DC (Derived from 2000 or 4000 series transceiver via integral RF control cable)
<b>Power consumption</b>	Tuned Typically 400mA Tuning <800mA
<b>Tuning time</b>	First tune - Less than 1 seconds - typical From memory - Less than 130 mS - typical Memory addresses unlimited
<b>Memory addresses</b>	Unlimited

### Mechanical

<b>Mounting Height</b>	Recommended between 6m to 10m
<b>Element Lengths</b>	Each element 3m assembled, 1.5m disassembled
<b>Assembled Length</b>	5.7m tip to tip
<b>Assembled Width</b>	2.2m tip to tip
<b>Assembled Height</b>	220mm, from bottom of mounting hub flange to element tips
<b>Weight</b>	5.7 Kg
<b>Mounting</b>	NATO 6 or 3 hole pattern / USA 4 hole pattern
<b>Colour</b>	Whip Elements Black, Base Black

### Environmental

<b>Wind</b>	160 km/hr
<b>Temperature</b>	-40°C to +85°C Storage -30°C to +60°C operational
<b>Humidity</b>	0% to 97% RH (relative humidity)
<b>Ingress Protection</b>	To IP67 (dust and water)
<b>RoHS2</b>	Complies with Directive 2011/65/EU



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ISO 9001

**BUREAU VERITAS**  
Certification

