



- **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.

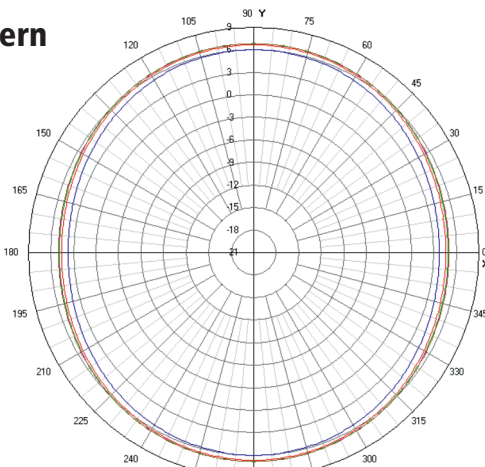
Assembly fixtures are supplied to assist in mounting the antenna to an existing mast, tower or pole. Alternatively a range of suitable masts can be supplied with the antenna.

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

Radiation pattern

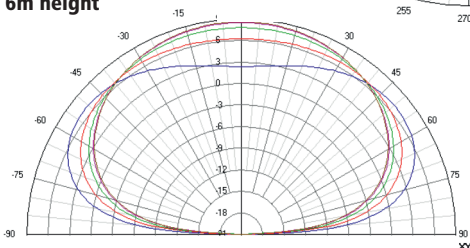
Horizontal plane 6m height

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

Frequency Range:	2 - 30MHz continuous
Input Impedance:	50 ohms
Power Rating:	150W PEP
Connector:	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)

Polarisation:	Horizontal
Radiation Pattern	Omni-Directional in horizontal and vertical planes

DC input requirements	+13.8 V DC (Derived from 2000 or 4000 series transceiver via integral RF control cable)
-----------------------	---

Power consumption	Tuned Typically 400mA Tuning <800mA
-------------------	--

Tuning time	First tune - Less than 1 seconds - typical From memory - Less than 130 mS - typical Memory addresses unlimited
-------------	--

Memory addresses	Unlimited
------------------	-----------

Mechanical

Mounting Height	Recommended between 6m to 10m
Element Lengths	Each element 3m assembled, 1.5m disassembled

Assembled Length	5.7m tip to tip
Assembled Width	2.2m tip to tip
Assembled Height	220mm, from bottom of mounting hub flange to element tips

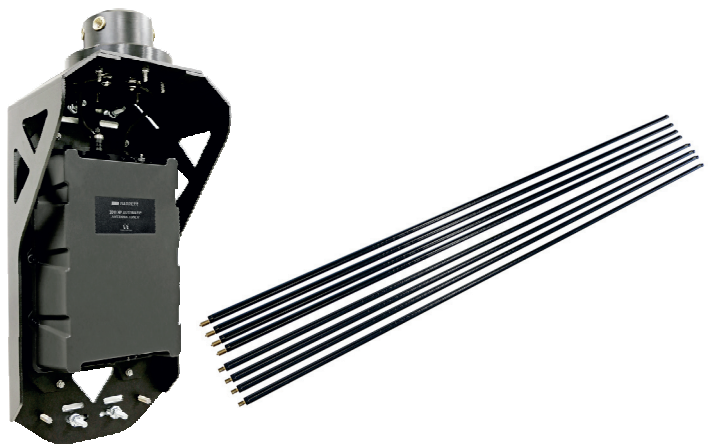
Weight	5.7 Kg
Mounting	NATO 6 or 3 hole pattern / USA 4 hole pattern

Colour	Whip Elements Black, Base Black
--------	---------------------------------

Environmental

Wind	160 km/hr
Temperature	-40°C to +85°C Storage -30°C to +60°C operational

Humidity	0% to 97% RH (relative humidity)
Ingress Protection	To IP67 (dust and water)
RoHS2	Complies with Directive 2011/65/EU



Head Office:

Barrett Communications Pty Ltd
47 Discovery Drive, Bibra Lake,
WA, 6163 AUSTRALIA
Tel: +61 8 9434 1700
Fax: +61 8 9418 6757
Email: information@barrettcommunications.com.au

www.barrettcommunications.com.au

BCB40170/1

ISO 9001

BUREAU VERITAS
Certification

