

**Section 1b**

**AIR BAND  
ANTENNAS**

Updated 14 February 2011

**B51H and B51HSS  
Broadband Discone Scanning Antennas**

**Frequency  
70 – 1000 MHz**

**Bandwidth  
FULL BAND**



The B51H and B51HSS discone base station antennas provide an omnidirectional radiation pattern, low VSWR and genuine broadband coverage for both transmit and receive across the full frequency range 70 to 1000 MHz.

Built to full commercial specification, these discones are suitable for transmitting at up to 100 watts power. An N-Female connector is located at the base of the mount tube.

The antenna is available to order in either aluminium (B51H) or stainless steel (B51HSS). The rods, simulating disc and cone may be removed for packing and transportation.

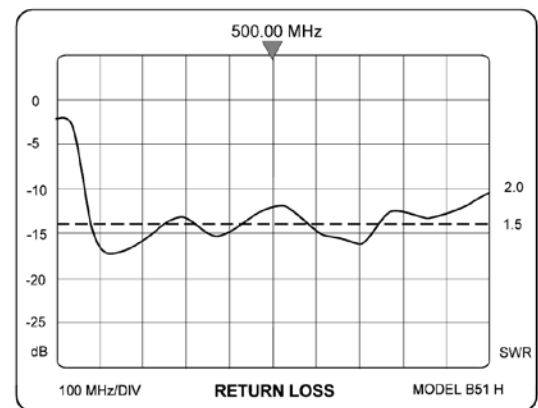
Generally, clients requiring a discone antenna for shortwave listening purposes or low power transmission use should consider purchasing one of the lighter duty alternatives, such as those offered by many dealers servicing this market.

Shortwave listeners may also consider purchasing a multi-frequency scanning whip for receive only purposes, such as our Model **SM39** whip to be found in the "Mobile Antennas" section of our catalogue.

Mast mounting clamps, coaxial feeder cable, connectors and other accessories are all available separately to complete the antenna installation.



SPECIFICATIONS	B51H	B51HSS
<b>Construction</b>	Aluminium	Stainless Steel
<b>Frequency Range</b>	<b>70 to 1,000 MHz</b>	
<b>Bandwidth</b>	<b>Full Band</b>	
<b>VSWR</b>	<b>Better than 2:1 across the entire range</b>	
<b>Tuning</b>	Factory	
<b>Gain</b>	0 dBd	
<b>Max Input Power</b>	100 Watts	
<b>Impedance</b>	50 Ohms	
<b>DC Grounding</b>	No	
<b>Polarisation</b>	Vertical	
<b>E-Plane</b>	83° at 100 MHz	
<b>H-Plane</b>	360° Omnidirectional	
<b>Connector</b>	N-Female connector located at the base of the mount tube	
<b>Height</b>	1.2 metres	
<b>Weight</b>	6.0 kg	9.5 kg
<b>Projected Area</b>	0.167 m <sup>2</sup>	
<b>Wind Load 160 kph</b>	31.449 kg, 0.308 kN	
<b>Mount Tube</b>	40 mm diameter	
<b>Mounting Clamps (Not supplied)</b>	<b>2 x EB1SS</b> stainless steel parallel clamps are recommended. Suit round mast between 20 mm and 50 mm in diameter	



2 x EB1SS parallel clamps are recommended and available to order separately