

## VHF Elevated Fixed Station Whip Antenna 30-108 MHz

Type 3012-900

The 3012-900 VHF Elevated Antenna is designed for fixed station use on buildings or towers where improved long-range omni-directional performance is required. The antenna is broadband and vertically polarised, for inter-operation with vehicle mounted, manpack and portable radios, as well as other elevated fixed station antenna sites. It is rugged and able to withstand a wide range of conditions and environments. The antenna incorporates a two-piece glass-fibre 2.5m whip mounted above a three-element stainless steel counterpoise groundplane. The elevated antenna base is a ruggedised-moulded design, which contains the antenna-matching unit. An integral aluminium base casting is fitted with a 24mm spigot, which allows it to be fitted directly into the socket of all NATO standard masts.



<b>Electrical Specification</b>	
<b>Frequency Range</b>	30-108MHz
<b>Gain</b>	- 2dBi .....30 MHz 0dBi .....55 MHz +2dBi .....88 MHz
<b>Polarisation</b>	Vertical
<b>Horizontal Radiation Pattern</b>	Omnidirectional
<b>Power Rating</b>	100W (CW)
<b>Impedance</b>	50 $\Omega$
<b>VSWR</b>	3.5:1 maximum
<b>Connector</b>	N type female
<b>Overhead Line Protection</b>	16kV RMS 50/60Hz from 90mm above the centre junction
<b>Mechanical Specification</b>	
<b>Height</b>	2.5m above the mounting point including spigot with 3 counterpoise elements 2.3m long projecting below
<b>Weight</b>	3kg
<b>Mounting Configuration</b>	To fit 24mm mast socket or on a pole support using the galvanised steel bracket provided
<b>Environmental Specification</b>	
<b>Temperature</b>	Operational -40°C to +70°C Storage -55°C to +85°C
<b>Humidity</b>	Up to 95% RH up to 55°C
<b>Wind</b>	162kph when mounted to rigid support
<b>Optional Item</b>	Coaxial cable (to customers individual requirement)

### RACAL ANTENNAS LTD

First Avenue, Millbrook Trading Estate, Southampton, SO15 0LJ, United Kingdom  
tel: +44 (0) 2380 705705 • fax: +44 (0) 2380 701122 • sales@racalantennas.com • www.racalantennas.com  
Racal reserve the right to vary in detail from the description and specification in this publication.