

## VHF Groundspike Antenna and Antenna Matching Unit (AMU) 30-108MHz

Type 3020-920

Racal Antennas Limited has many years of experience in design, development and manufacture of manpack/portable antennas for the military user. They have been developed after consultation with military users and radio manufacturers worldwide.

The 3020-920 ground spike antenna kit is for use with manpack radios and gives the capability to remote an antenna from its radio allowing the soldier to operate from a more secure environment, which could either be a shell scrape, tent, building, or any other protective environment. The antenna can also be elevated onto buildings and trees or used in conjunction with a 5.4m mast kit (model 4025). When the antenna is elevated with the 5.4m mast kit operating range of the radio is significantly improved.



<b>Electrical Specification</b>	The specifications in this section apply when the Ground Spike Antenna is mounted in the ground mounted role or when mounted in the 5.4 Metre manpack mast
<b>Frequency Range</b>	30-108MHz
<b>Polarisation</b>	Vertical
<b>Horizontal Radiation Pattern</b>	Omnidirectional
<b>Power Rating</b>	25W CW
<b>Impedance</b>	50Ω
<b>VSWR</b>	≤3.5:1, but this may rise to 4:1 for less than 5% of the frequency range
<b>Gain</b>	>-5dB compared to a tuned dipole antenna.
<b>Radio Interface</b>	BNC
<b>Mechanical Specification</b>	
<b>Height</b>	2260mm (Ground Spike Antenna)
<b>Weight</b>	1.9kg
<b>Mounting Configuration</b>	Ground, building, shelter or mast mounted
<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

### 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.