



# M O O N R A K E R

## Type HF RXA

**Active broadband receiving antenna for LF/MF/HF communications  
with single feed or cascading multicoupler**

The Moonraker HF RXA antenna system is a compact receiving whip antenna and integral broadband amplifier with either a multicoupler power supply distribution unit or a single channel power supply unit, where only one feed is required. The system is suitable for use in buildings such as hotels, motels, schools and broadcast stations for off air monitors. Being fully marinised, it is also eminently suitable for shipboard and offshore oil rig installations for distribution to receivers, fax machines, crew quarters and the like.

The multicoupler power supply has five separate isolated outputs. For installations requiring a greater number additional units may be cascaded in multiples of four outlets (ie 5, 9, 13, 17...). In its single channel configuration it is also suitable for amateur DX enthusiasts or anywhere that enhanced reception is required.

A stud on the side of the antenna permits connection of another wire antenna to utilise the HF RXA amplification system improving reception in weak signal areas. With horizontally erected wire antennas, this also gives the added advantage of providing horizontally polarised reception if required. The stud is provided as a connection point only and is not intended to be used as a strain relief.

### Specifications

<b>Antenna</b>	2m (6.6ft) whip (painted white) with integral amplifier
<b>Pattern</b>	Omnidirectional
<b>Polarisation</b>	Vertical
<b>Wind Loading</b>	0.75 kg at 100 km/h (1.7 lbs at 60 mph)
<b>Mountings</b>	Base mounted, 44mm (1.25 in) with 3/8 in mounting stud
<b>Connection</b>	6m (19.7ft) coaxial cable (supplied). System will operate with up to 45m (147ft) cable length but with some cable losses, particularly at the higher frequencies
<b>Amplifier</b>	Low noise unit, totally enclosed in base of antenna
<b>Frequency Range</b>	0.070-30 MHz
<b>Gain</b>	5 dB at 12v (nominal)
<b>Power Supply</b>	12-28v, 30mA (max) fed from multicoupler
<b>Protection</b>	DC grounded for static protection. Amplifier input transient protected
<b>Multicoupler</b>	Enclosed in small 150 x 50 x 80 mm (6 x 2 x 3.2 in) box with grommeted holes for cable entry/exit. Mounting by way of screws through back. Isolation 50 dB at 0.3-2.0 MHz, 70 dB between any output to input
<b>Insertion Loss</b>	0.5 dB (max)
<b>Impedance</b>	50Ω system; 75Ω optional, please specify
<b>Power Supply</b>	12-28v 60mA (max) per unit. Requires fused (100mA) feed. For 240/110v AC use plug pack. Reverse polarity protected
<b>Single Channel Coupler</b>	Enclosed in PVC box 28 x 54 x 83 mm (1.2 x 2.2 x 2.7 in)
<b>Impedance</b>	50-75Ω system; 75Ω optional, please specify
<b>Power Supply</b>	12v, reverse polarity protected
<b>Packed Weight</b>	3 kg (6.6 lbs)

