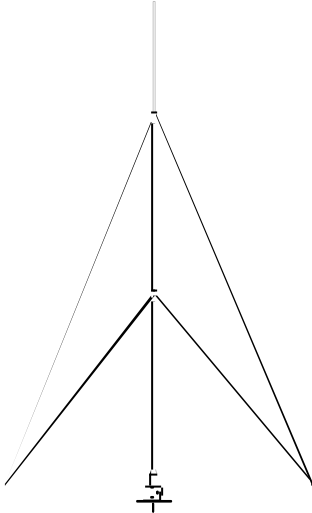




M O O N R A K E R

Type 32H/S

HF base station antenna system for tropical and high wind locations



Designed to meet the specifications of military, government and semi-government authorities for locations subject to tropical atmospheres and high winds up to 240 km/h (150 mph).

The 32H/S may be mounted on buildings or direct on the ground and is easily assembled from two 3.6m (11.75ft) and one 2.6m (8.5ft) lengths. The basic mast radiator, normally in natural aluminium finish, may be finished with a high durability epoxy based coating resistant to chemical attack, abrasion and the effects of ozone and ultra-violet radiation. A horn gap overvoltage lightning protection system (type LPU) is available.

Two sets of four electrically transparent Dyneema core guys, 4mm (11/64in) diameter, are fastened at 3.65m (12ft) and 7.3m (24ft) from the base of the mast and may be anchored by four 205mm (8in) square hot dip galvanised plates with 12.5mm (1/2in) dia x 760mm (30in) long eyebolts, nuts and terminating thimbles (Optional). Guys in stainless steel rope with insulators are also optional.

For building mounting, a hot dip galvanised adjustable steel bracket, suitable for erection at any angle, is supplied. A ground plane kit which comprises four 12m (39.5ft) x 7/1.04 stranded hard drawn copper wires, complete with end insulators, outer end anchor lugs and racket attachment bolt is optional. Ground mounting is by way of a hot dip galvanised square steel plate, earth spike and adjustable angle bracket incorporating connections for ground radials and lightning arrestor. Also available is an earth mat kit of four 12m (39.5ft) long 7/1.04 hard drawn bare copper wires with 0.6m (2ft) x 12.5mm (1/2in) outer end spikes and inner end bolts which may be attached to the plate.

The antenna is usually supplied unloaded and self resonant at approximately 7.5 MHz but may be supplied trapped and/or loaded for high efficiency multi-frequency operation. An antenna tuning unit is normally required, and, for efficient operation, a low impedance ground plane or earth mat system is necessary.

SPECIFICATIONS

HF Band	2-30 MHz
Length	9.5m (32ft)
Pattern	Omnidirectional
Polarisation	Vertical
Guy Spread	Recommended not less than 4m (13ft) radius in high wind areas
Guy Tension	Recommended 4kg (8.8 lbs)
Frequency Range	Pretuned to frequency or frequencies required, or, unloaded 2-30 MHz. A suitable ATU is required.
Wind Loading	Total projected area: 0.29 sq m: Total wind loading 57kg at 200 km/h (125 lbs at 125 mph); Total wind loading 83kg at 240 km/h (183 lbs at 150 mph)
Power Capability	1kW PEP for normal loaded top sections; 500w PEP for trapped top sections; 1kW PEP for unloaded top sections
Mountings	On open ground: adjustable angle ground plate, 300 x 300 x 5mm (12 x 12 x 3/16 in) with spike, 300 x 16mm (12 x 5/8in); On buildings: adjustable angle bracket. Both mountings are supplied in kit form.
Connection	1m (3ft) HV silicone insulated 56/0.30 flexible tinned copper cable tail permanently fastened to base of radiator
Packed Weight	Antenna: with ground mount 13.5kg (29.8 lbs); with building mount 11.5kg (25.3 lbs). Ground Plane 4.0kg (8.8 lbs) Earth Mat 6.0kg (13.3 lbs) Anchor Kit 11.0kg (24.2 lbs) Lightning Protection Unit 1.5kg (3.3 lbs)

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Specifications subject to change 03/09

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