Marconi V.H.F Aerials

A comprehensive range of aerials has been designed to meet the varied requirements of modern v.h.f equipment.

The aerials are equipped with a cable harness incorporating coaxial aerial transformers moulded in polythene. A feedermatching transformer of similar type is also available where a particularly good standingwaye ratio is required.

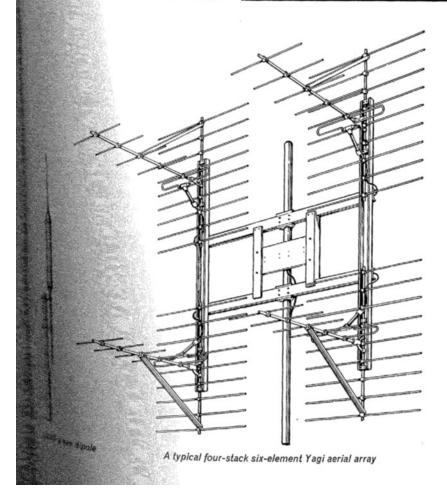
Several of the compact Yagi aerials may be mounted on the same tower. Each aerial consists of a folded half-wave dipole radiator, one reflector and two or four directors. A range of lightweight self-supporting galvanized lattice steel towers, of heights from 50 to 400 ft, has been specially designed to support these arrays. Heavy duty towers are available for sites subject to strong winds.

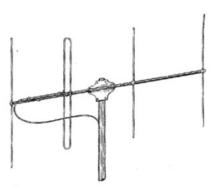
For point-to-point single-channel v.h.f communication a lightweight four-element Yagi array, suitable for operation in the \$0-185 MHz band is available, having a nominal gain of 8 dB over a half-wave dipole. This aerial may be arranged to give either horizontal or vertical polarization. A half-wave concentric vertical dipole may be used for fixed stations or ships. A fully-flexible end-fed quarter-wave rod, suitable for mounting on a vehicle roof, is also

available. Special arrays of half-wave elements giving combined polarization have been designed for use at aerodrome ground stations.

For use with the HM 100 and HM 150 series of v.h.f multi-channel f.m radio links the following aerials are available.

Туре	Nominal Gain*	Wind Area Beam Angle†			Weight
		sq. ft	vertical	horizontal	1b
For use below 80 MHz					
4-element Yagi	7-8	2.6	70°	57°	90
2-stack 4-element Yagi	10-11	9	36°	57°	250
For the band 132-220 MH	z				
6-element Yagi	10-11	2.6	49°	42°	100
2-stack 6-element Yagi	13-14	9	25°	42°	260
4-stack 6-element Yagi	15-16	25	25°	21°	700





Lightweight 4-element Yagi array

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