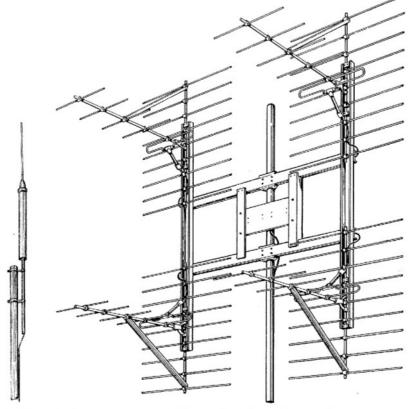
A COMPREHENSIVE RANGE of aerials has been designed to meet the varied requirements of modern VHF equipment.

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 standing-wave 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 VHF communication a lightweight four-element Yagi array, suitable for operation in the 60-185 Mc/s 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 181, HM 100 and HM 150 series of VHF Multi-channel FM radio links the following aerials are available.

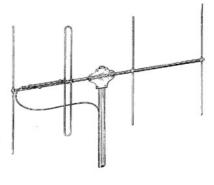


Half-wave dipole.

A typical four-stack six-element Yagi aerial array.

Lightweight 4-element Yagi array.

Туре	Nominal Gain* dB	Wind Area sq. ft	Beam Angle†		Weight
			vertical	horizontal	lb
FOR USE BELOW 80 Mc/	S				
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 M	Ic/s				
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
*Referred to half-wave dipole. † T		aken at mid-band frequency.			



Marconi

Marconi's Wireless Telegraph Company Limited Marconi House, Chelmsford, Essex Telephone: Chelmsford 3221 · Telex: 1953 Telegrams: Expanse Chelmsford Telex