

# TELEVISION PLANNING

PRACTICALLY every country operating a television service has looked to Marconi's for the supply and installation of equipment. These include Australia, Brazil, Canada, Denmark, Great Britain, Italy, Japan, Siam, Sweden, Switzerland, Venezuela and Yugoslavia. With such a wide experience, the Company is well fitted and suitably equipped to carry out,

- Site and coverage surveying
- Detailed station planning
- The preparation of architectural drawings
- Supervision of station construction
- The supply, installation and setting to work of the technical equipment.

Comprehensive training facilities for all technical personnel can also be provided. After-sales-service is efficiently cared for, experienced engineers being available to travel anywhere in the world to investigate system or equipment problems.

While the Marconi organisation is well able to handle the most complex schemes, yet its comprehensive services are available for the benefit of the smallest station.

## THE EQUIPMENT

The standard range of studio and mobile equipment includes designs suitable for operation on the three systems in general use, the main features of which are summarised below.

The supply voltage quoted is a nominal figure only as all units are fitted with adjustment taps on mains transformers allowing a variation about the nominal input voltage. Solder tags are provided for  $\pm 10\%$  adjustment on studio equipment; on mobile units a mains voltmeter and a tap-changing rotary switch, allowing  $\pm 15\%$  variation, are fitted.

Mains fuses are fitted on the front panel of each unit together with replacement fuses alongside.

Metal-clad connectors, with spring catches, are used throughout the range of equipment. The number of contacts on each connector is decided on a functional basis, for example, mains connectors have four contacts; DC power connectors – twelve contacts; communications – ten contacts. This system facilitates the provision of standard made-up cables for most applications.

Marconi television equipment owes its versatility, to a large extent, to the range of interchangeable housings, casings and stands which have been designed to mount the standard chassis units. Robust construction is coupled with pleasing functional design throughout.

Most items of equipment comprising the camera channel are so designed that the same basic units may be employed in mobile or studio applications; suitable mountings for each arrangement are provided by the mobile case or the studio console housing. The standard finish for these items is light grey rivet enamel with black anodised escutcheons and chromium plated fittings.

The majority of studio units are assembled on 'Pan-type' chassis for fitting in to standard 19 in. (48 cm) cabinet racks. Certain units are supplied on a flat 19 in. (48 cm) wide 'universal' chassis suitable for mounting in a mobile case or in a cabinet rack. For this latter arrangement the chassis may either be mounted directly on to the rack uprights or first affixed to distance pieces so that the units are recessed from the front of the rack by approximately 5 in. (13 cm).

Transmitters are also housed in standard cabinets with the result that complete installations present a uniform appearance.

SYSTEM	LINES PER PICTURE	FIELDS PER SECOND	SUPPLY		SIGNAL LEVEL	
			Voltage (V)	Frequency (c/s)	Comp. (Vp-p)	Non-Comp (Vp-p)
BBC	405	50	230	50	1.0	0.7
RMA	525	60	117	60	{ 1.4	1.0
CCIR	625	50	230	50	{ 1.0	0.75 } optional
					1.0	0.75