Television Link Receiver
Type BD619

THE LINK RECEIVER is designed to receive vision transmissions in the frequency range 170–216 Mc/s. It is crystal controlled and provides outputs at video frequencies to associated monitoring and terminal equipment.

The equipment comprises two units, the receiver and the power unit, which are both housed in standard mobile cases. A waveform monitor is also built into the receiver unit.

CIRCUIT

The receiver uses a conventional superheterodyne circuit. There are two stages of RF amplification followed by the mixer, IF amplifier, detector, video amplifier, and associated stabilising and clamping stages. The effects of flutter are minimised by the application of automatic gain control to various stages.

DATA SUMMARY

Frequency range: 170–216 Mc/s.

System: 405 or 625 lines.

Modulation: Either positive or negative.

Signal-to-noise ratio: Better than 40 dB for input of 50 μV.

Sensitivity: 50 μV input for full output.

Video output: 2 V (adjustable) peak-to-peak into 75 Ω.

Picture/Sync. pulse ratio: 70 : 30 $\pm 2\%$ (depends upon receiver input).

Linearity: With no correction applied and at full output the linearity is better than 4%.

Automatic gain control: Will give at least 40 dB control.

Bandwidth: Within $\pm 0{\cdot}25$ dB up to 4 Mc/s and not more than 1 dB at 5 Mc/s.

Power supply: 90–125 V or 190–250 V, 50 c/s, single-phase, AC.

Marconi

MARCONI'S WIRELESS TELEGRAPH COMPANY LIMITED

Marconi House, Chelmsford

Telephone: Chelmsford 3221. Telex: 1953. Telegrams: Expanse Chelmsford Telex