

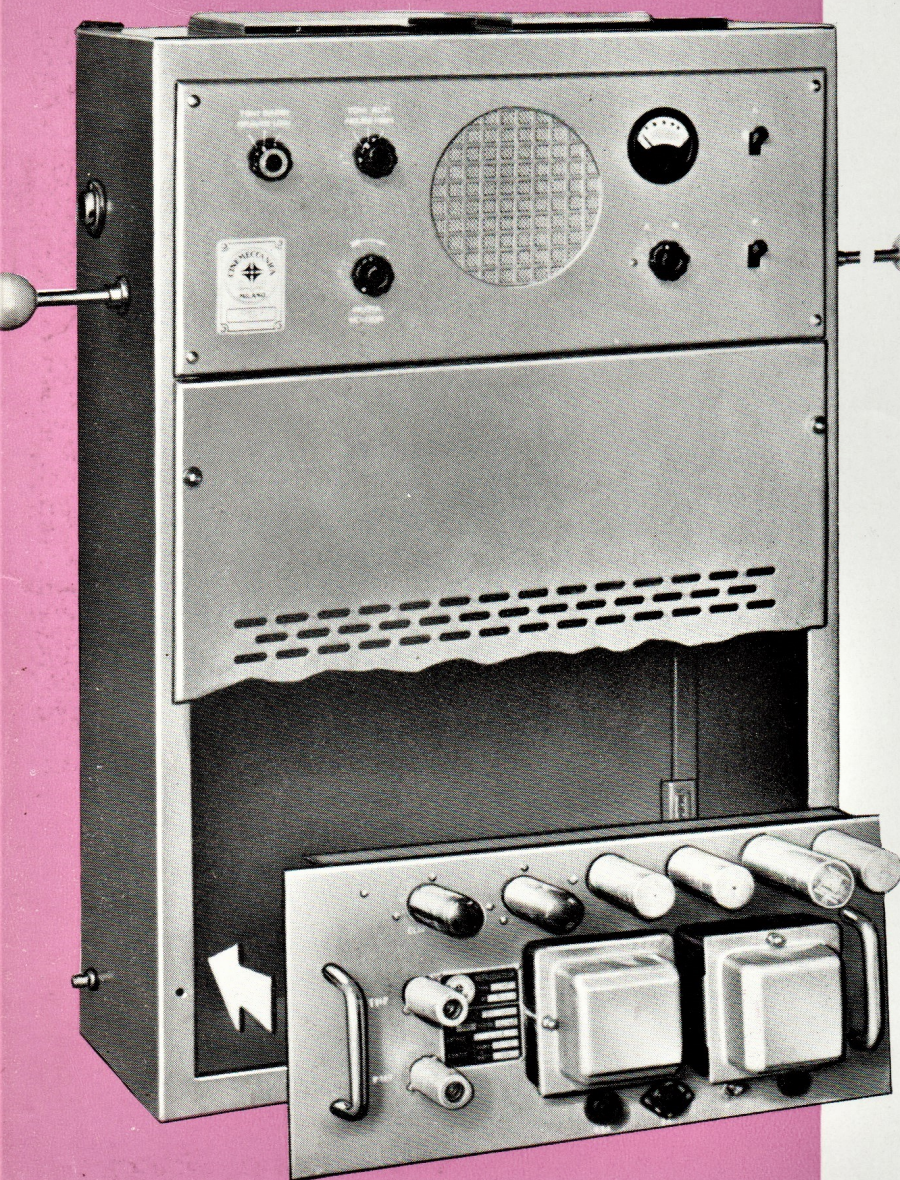
**CINEMECCANICA**

**AMPLIFIERS &  
LOUDSPEAKERS**

**RANK KALEE**



A DIVISION OF THE RANK ORGANISATION



The dual C/60.2 main amplifier and PT/60 optical pre-amplifiers provide complete and flexible high-power sound equipment for every type and size of cinema. The main amplifier comprises two C/60 plug-in type amplifier units, each with a speech output of 40/60 watts. The well-designed negative feedback circuit ensures good transients response and lowest possible distortion level under full load. Separate controls are provided for the adjustment of H.F. and L.F. response, to match the requirements of individual theatre acoustics. H.T. supply is obtained with high-efficiency, silicon-type rectifier units. A built-in monitor speaker, mains switch and voltmeter, selector and tone control switches are fitted on the control panel.

The two amplifier units are arranged in dual channel form so that while one unit is in use, the second acts as a standby which can be switched immediately into circuit. The main amplifier assembly can be supplied with or without changeover facilities to suit installation requirements, or where switching arrangements are incorporated on the projectors. When a changeover is supplied with the amplifier, an internal switch is actuated by a 'push-pull' rod extending on each side of the cabinet.

*If required the equipment can be supplied with a single C60 amplifier unit. A second amplifier unit can be purchased at a later date, and simply plugged-in without alteration to the rack wiring.*

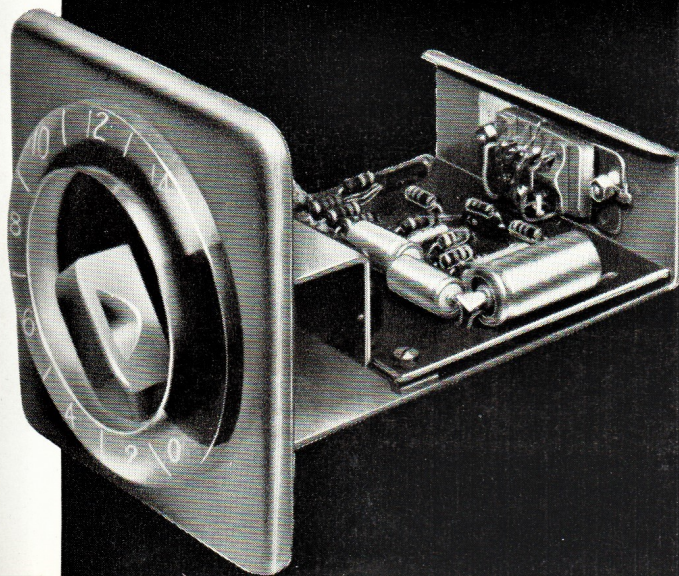
## AMPLIFIER C/60.2 and PRE-AMPLIFIER PT/60 optical tracks

The PT/60 optical pre-amplifier is completely transistorised, and is connected to a germanium photo-junction within the optical soundhead. Each pre-amplifier has individual volume control with illuminated dial, designed for fixing into the various models of Cinemeccanica projector stand beams. An alternative model PC/60 pre-amplifier (not transistorised) is available for use with Cinemeccanica, and other makes of sound projectors, fitted with the standard caesium photo-electric cell.

**NOTE** The C/60 amplifier units are designed to provide PT/60 operating supplies, but exclude exciter lamp current supply.

**Dimensions** 32 in. × 22 in. × 8 $\frac{1}{4}$  in.  
(810 × 560 × 210mm).

**Weight** 79 lb. (36 kg.).



## AMPLIFIER C/60.6 35 mm OPTICAL 35 mm MAGNETIC CINEMASCOPE 70 mm MAGNETIC

The C/60.6 amplifier is a high quality six-channel power equipment suitable for any of the motion picture systems operating today. The handsomely designed steel cabinet with two doors completely encloses and protects the amplifier racks and switch panels. Fitted in the cabinet are six C/60 plug-in type power units, each with a speech output of 40/60 watts, a CinemaScope effects track control panel, separate controls for adjustment of H.F., and L.F., response, power supplies for optical pre-amplifiers, and silicon rectifiers for H.T. supplies. Each amplifier unit has

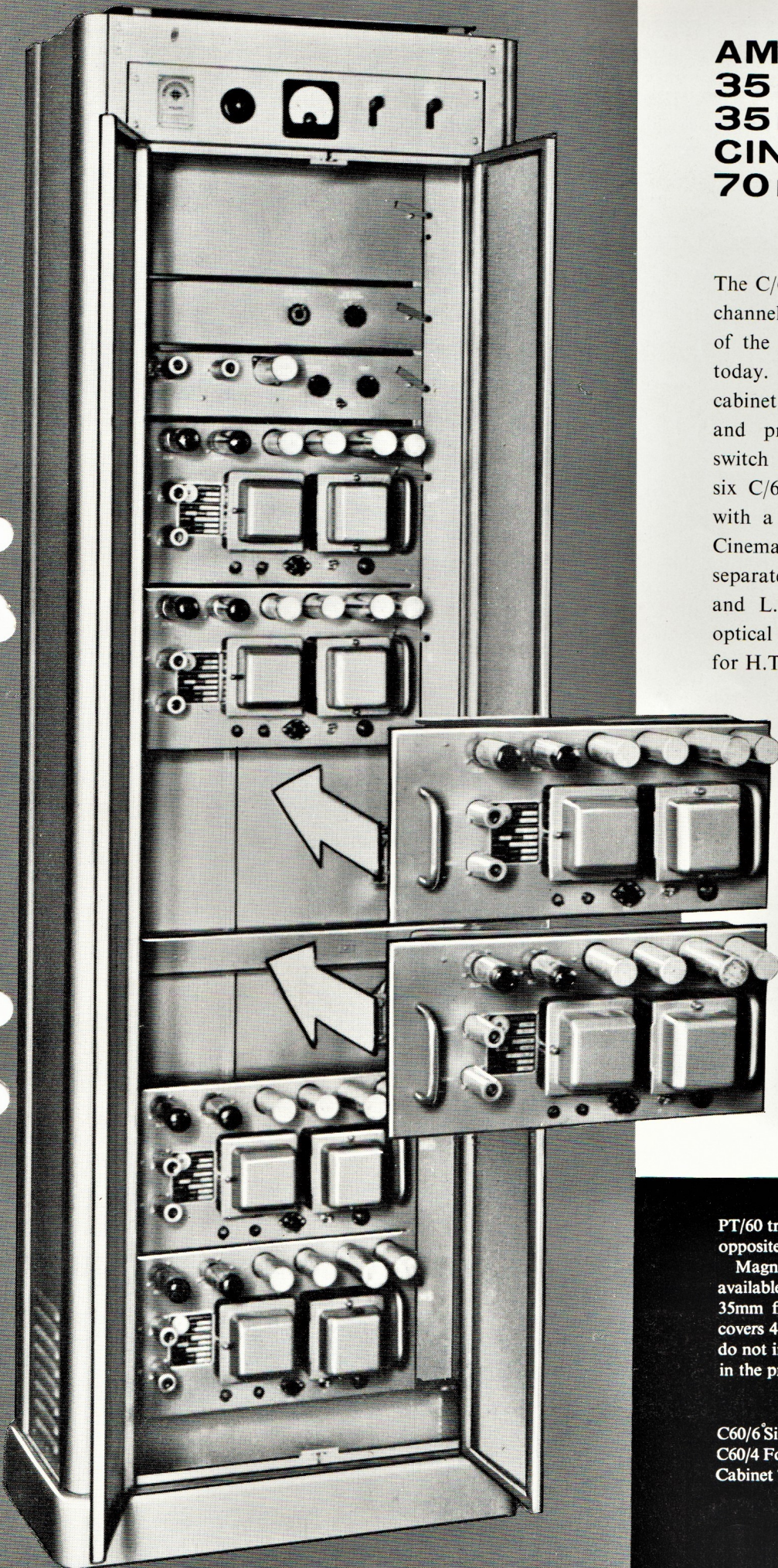
individual fuses and mains switch. An external panel above the two doors is equipped with a red indicator light, mains supply voltmeter, mains ON/OFF switch, and a magnetic pre-amplifier ON/OFF switch. The cabinet can be supplied alternatively with four C/60 power units only for CinemaScope sound, and two additional plug-in units to adapt for 6-track 70mm film can be fitted at a later date, if required.

PT/60 transistorised optical pre-amplifier is shown on opposite page.

Magnetic tracks. Transistorised pre-amplifiers are available for either 6-channel 70mm film, or 4-channel 35mm film. (The 6-channel assembly automatically covers 4-channel operation). The C/60 amplifier units do not include exciter lamp supply as this is normally in the projector specification.

### Net Weights and Dimensions

C60/6 Six C/60 Amplifier Units	220 lb	100 kg
C60/4 Four C/60 Amplifier Units	165 lb	75 kg
Cabinet	78 in. x 25 in. x 12½ in. (1990x635x315mm)	



## TRANSISTORISED AMPLIFIER C/25 TP

The Cinemeccanica C/25 TP transistorised power amplifier has been specially designed for small and medium size cinemas. It comprises a complete sound equipment for optical tracks, and has a built-in, printed circuit, optical pre-amplifier. The high quality power amplifier has a peak power output of 25 watts, and a frequency range of 50 to 10,000 cycles. Cost has been kept at an extremely low level without sacrifice of high quality construction or performance. Separate controls are provided for the adjustment of H.F. and L.F. response, to suit the theatre's acoustic conditions, and varying sound recordings. The main volume control, fitted with an illuminated dial, allows accurate setting of sound level in the theatre. A monitor with individual volume control is built into the cabinet. An input is provided for a record player attachment. The cabinet is also fitted with a mains voltmeter, supply switch and fuse. The complete amplifier chain is contained in a small and attractive steel cabinet, which can be suspended from a wall in the projection room. Rubber buffers allow space for the circulation of air for cooling purposes.



The Cinemeccanica C/25TP transistorised power amplifier can be supplied for use with optical soundheads fitted with germanium photo-junction type or caesium photo-cells. The amplifier is also available with either single or dual soundhead input facilities.

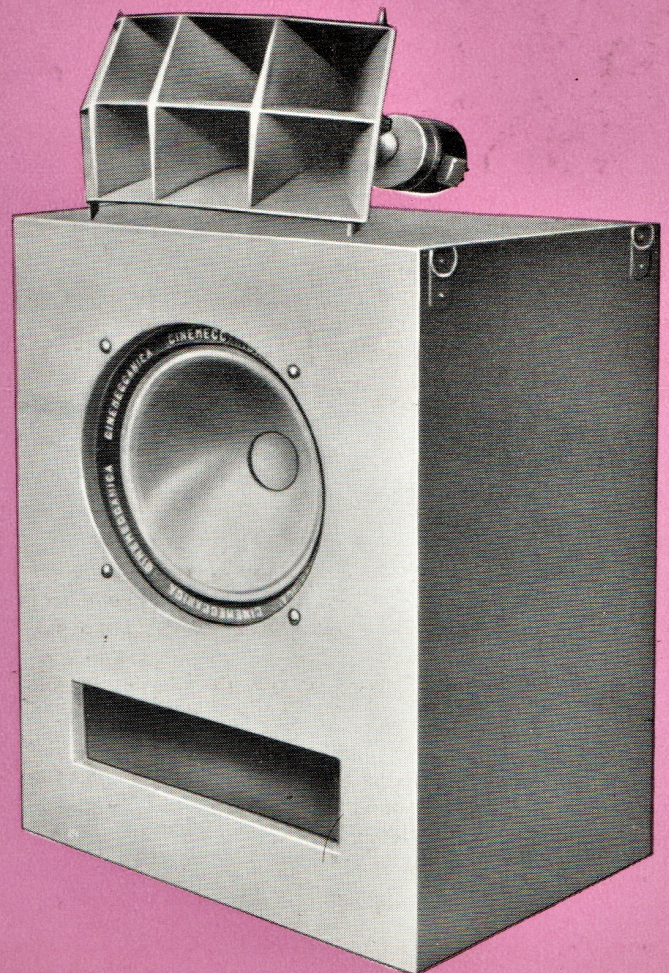
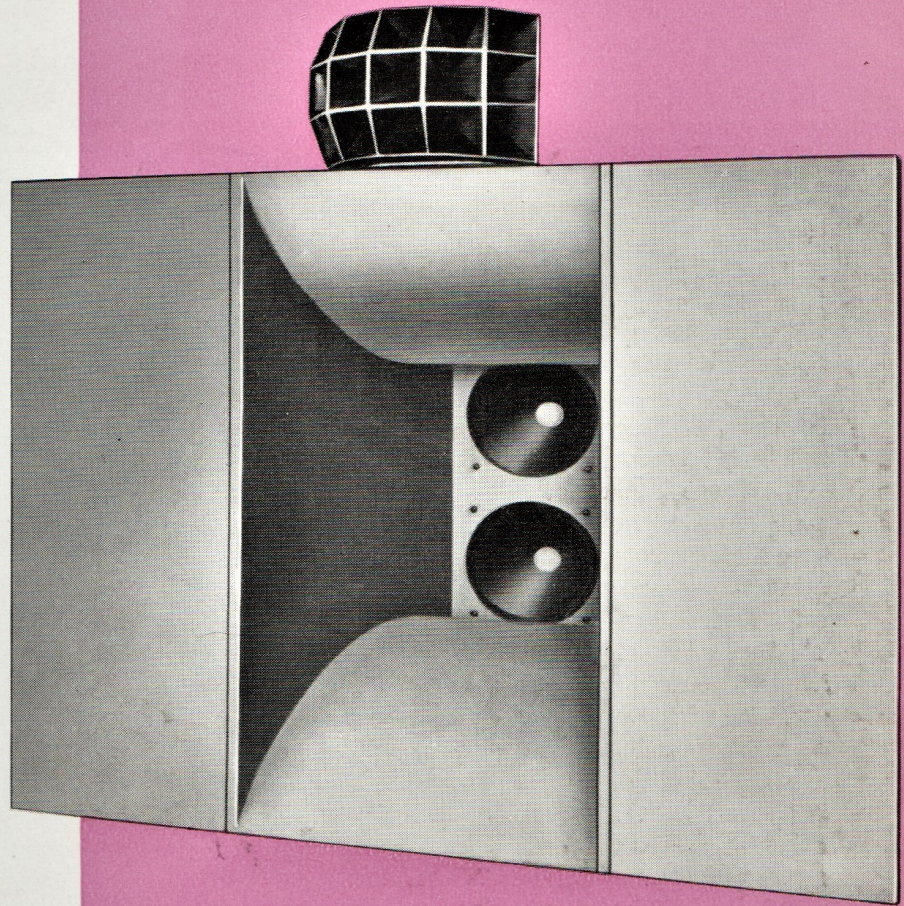
*DIMENSIONS* : 20½ in. × 14½ in. × 6 in.  
(520 × 365 × 150mm.)

*WEIGHT* : 32 lb. (14 kg.)

Cinemeccanica biphonic loudspeaker assemblies are designed to match exactly the requirements of every size and type of auditorium. Selection of the correct assembly or combination of speakers, is dependent upon the shape and acoustic conditions, as well as the size of auditorium, and no general recommendations can be given for a theatre of specified seating capacity. A survey of the hall, or an examination of the plans is always recommended.

There is a choice of two models of base cone speakers, Berta and Berta E type 'B', for the biphonic assemblies. Both units are fitted with a 365mm. (14 $\frac{1}{4}$  in.) diameter cone, but they differ in weight and diameter of magnet. They can also be supplied to cover the complete frequency range (type 'N'), without the high frequency unit, for use as a screen speaker.

High frequency speakers with multi-cellular horns, to match the acoustic requirements of the hall, are also available with choice of permanent magnet speaker unit—Senior type 'A', and Junior type 'C'. High frequency dividing networks are supplied for cross-over frequencies of 600 c.p.s., (type 'G') and 1,200 c.p.s. (type 'R'). For multi-track sound recordings and monitoring, there is a selection of loudspeakers to suit every requirement.



## **CINEMECCANICA LOUDSPEAKERS**

# CINEMECCANICA LOUDSPEAKERS

## EXPONENTIAL BIPHONIC ASSEMBLY

Low frequency horn assembly with two "Berta E/B" permanent magnet 365mm (14 $\frac{1}{4}$  in.) diameter cone units.

## BIPHONIC ASSEMBLY TYPE TS

Complete loudspeaker assembly with one "Berta E/B" base speaker unit, and type "R" 1,200 c.p.s., dividing network filter contained in wood cabinet, and one multi-cellular horn type "F" (four cells in two layers) with Senior model type "A" high frequency unit. Type Tse: Specification as above, but with Junior model type "C" high frequency unit.

## LOW FREQUENCY HORN ASSEMBLY

Direct dual horn type fitted with two "Berta B" cone units. Also available with four "Berta B" cone units for the large theatre. The low frequency characteristics of the direct horn are greatly improved by the fitting of a suitable baffle.

## CONE SPEAKER UNITS

"Berta" normal type "N" or base type "B", 365mm (14 $\frac{1}{4}$  in.) diameter cone, 63mm diameter magnet, weight 12.20 kg.

"Berta E" details as above but with 50mm diameter magnet, weight 7.30 kg.

## HIGH FREQUENCY UNITS

For use with multi-cellular horns.

Type "A" Senior model permanent magnet unit, weight complete 6.85 kg., magnet 2.20 kg.

Type "C" Junior model permanent magnet unit, weight complete 4.30 kg., magnet 1.20 kg.

## MULTI-CELLULAR HF HORNS

Type	Number of cells	Acoustic Aperture		H.F. Unit
		Vertical	Horizontal	
G	3 × 4	45°	60°	1 or 2 type "A"
G	3 × 5	45°	75°	1 or 2 type "A"
M	2 × 5	40°	100°	1 type "A"
M	3 × 5	60°	100°	1 or 2 type "A"
F	2 × 4	45°	90°	1 type "A" or "C"

## DIVIDING NETWORK

Type G cross-over 600 c.p.s., 6 ohms.

Type R cross-over 1,200 c.p.s., 6 ohms.

## MONITOR LOUDSPEAKERS

Four models available—Six-channel, Four-channel, Double monitor to convert existing 4-channel to 6-channel, and monitor speaker with 4-way selector switch.

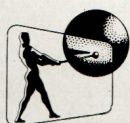
## AUDITORIUM (EFFECTS) LOUDSPEAKERS

"320/R" Cone diameter 295mm (11 $\frac{3}{4}$  in.) in cabinet 350mm × 350mm × 120mm deep (13 $\frac{3}{4}$  in. × 13 $\frac{3}{4}$  in. × 4 $\frac{3}{4}$  in.)

"200/R" Cone diameter 180mm (7 $\frac{1}{4}$  in.) in cabinet 250mm × 250mm × 65mm deep (10 in. × 10 in. × 2 $\frac{5}{8}$  in.). Model "320" available for outdoor use.

*Other makes and types of loudspeakers are available.*

**Note:** Illustrations in this catalogue must not be taken as binding, alterations are made as occasion arises.



**RANK AUDIO VISUAL** THE RANK ORGANISATION

WOODGER ROAD LONDON W.12 ENGLAND

*Branches and Agents throughout the World*