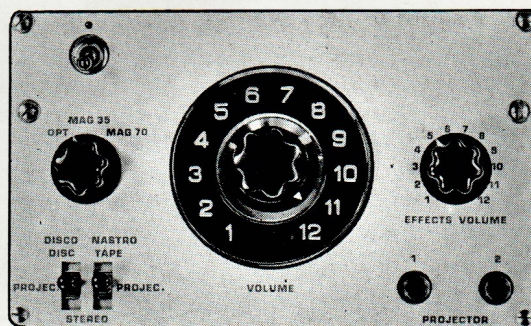


RANK AUDIO VISUAL LIMITED

CINEMECCANICA

C 65 TRANSISTORISED

SOUND SYSTEM



CINEMECCANICA

C/65 TRANSISTORISED SOUND SYSTEM

The C/65 Transistorised Sound System has been especially developed to give the cinema a sound reproduction system which does justice to the high standard of present-day sound recording.

A study was made to determine the best methods and basic equipment needed for a theatre with a typical requirement for single-track optical, four-track magnetic and six-track magnetic sound.

Special regard was paid to accessibility of all units for service inspection, testing and equalising. It was decided to take advantage of developments in computer technology — especially transistors and modular construction, as a basis for the new system.

The C/65 Transistorised Sound System is the result.

The system meets all present-day requirements for functional design, reliability, unit construction, and realistic costs.

The use of transistors and printed circuits has made possible much smaller items of equipment while ensuring greater reliability.

Working sections of all units have been designed as plug-in modules. This enables the theatre staff to carry on the show, in the rare case of emergency, by inter-changing modules. It also provides an element of custom-building of sound systems to suit individual theatre requirements.

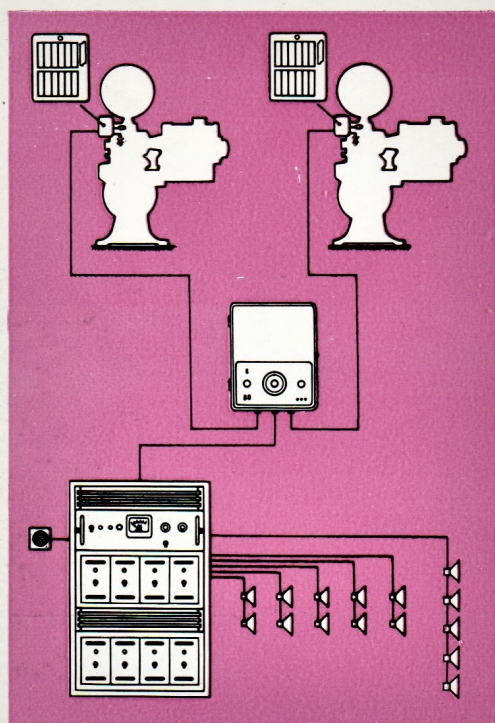
Evaluation by conventional test methods and by critical listener of the quality of reproduced sound from the system confirms that the C/65 meets the high standards demanded by modern sound recording.

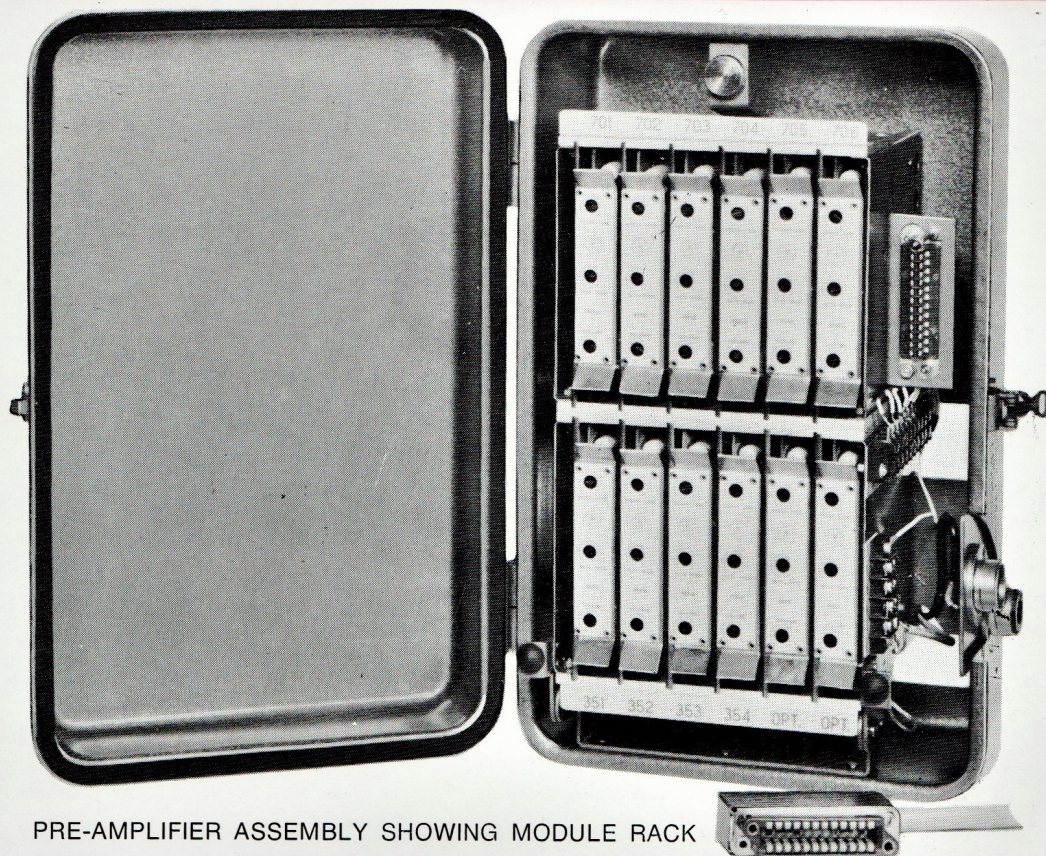
EQUIPMENT FOR TYPICAL 70/35mm. INSTALLATION

Comprises: two separate twelve module pre-amplifier assemblies, one for each projector; system control and selector unit; eight module power amplifier assembly; screen and ambient speakers as required. The output from the pre-amplifiers is fed to the system control unit. The signals are then taken to the input of the power amplifiers. The output from the power amplifiers is then fed to the stage and auditorium speaker systems. Facilities can be provided for non-synchronous reproduction from mono or stereo records or tape, or with microphone of suitable type and matching.

EQUIPMENT FOR ESSENTIALLY 35mm. INSTALLATION

This comprises the same basic units as for 70/35 mm. operation but with fewer modules in pre-amplifier and power amplifier assemblies to cover the more limited functions, and a smaller speaker array.



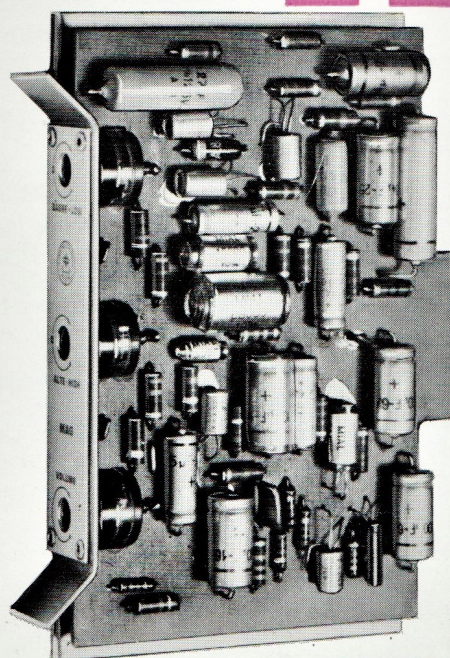


PRE-AMPLIFIER ASSEMBLY SHOWING MODULE RACK

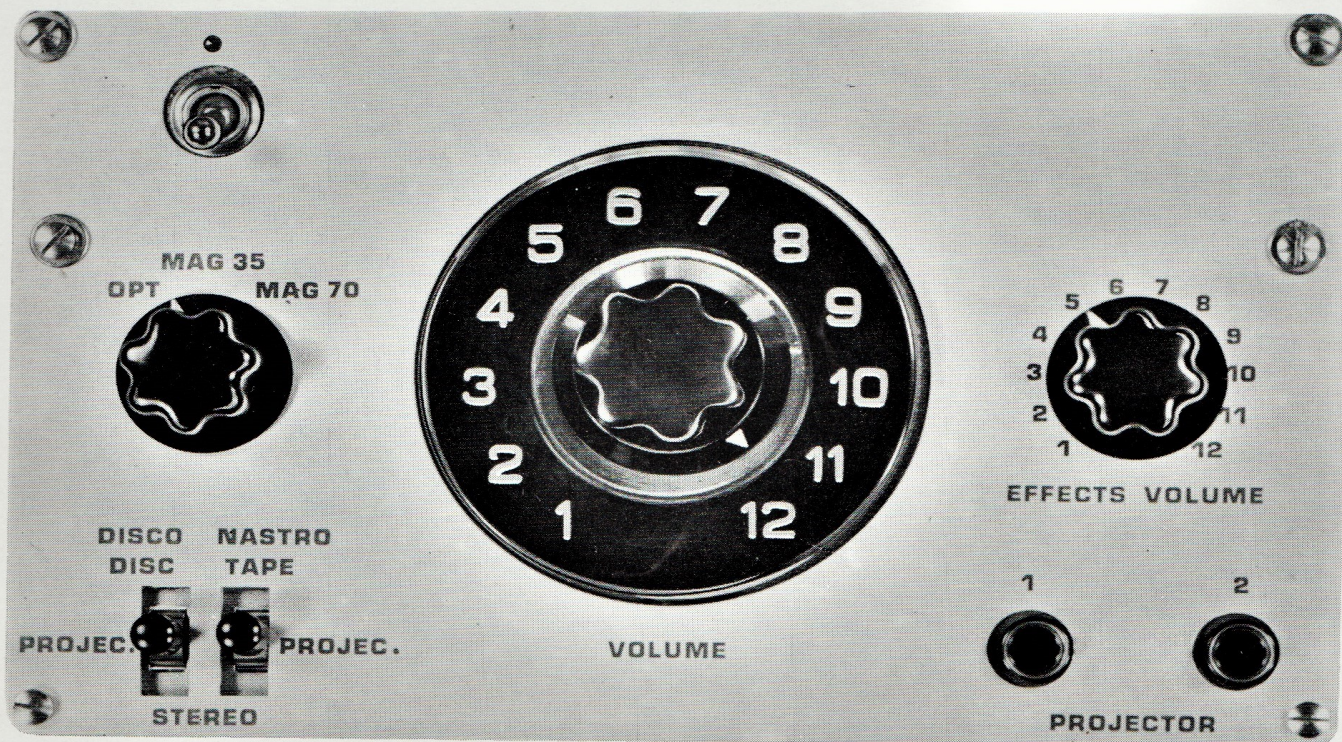
PRE-AMPLIFIER ASSEMBLY

This unit is housed in a substantial metal cabinet which acts as a magnetic shield. The assembly can accommodate twelve transistorised modules: six for 70 mm. magnetic sound, four for 35 mm. magnetic sound, one for optical and one as an optical spare. The modules have key-type locating pins to ensure correct insertions; they slide into guides until engaged with gold-plated connectors of conventional type. Each pre-amplifier has facilities for pre-set control of gain and frequency response.

To give ease of access the internal frame supporting the pre-amplifier modules is mounted on a pivot bar at the base. By removing the knurled stud at the top of the frame the complete assembly can be lowered out of the container for inspection and service.



INTERIOR OF
PRE-AMPLIFIER MODULE



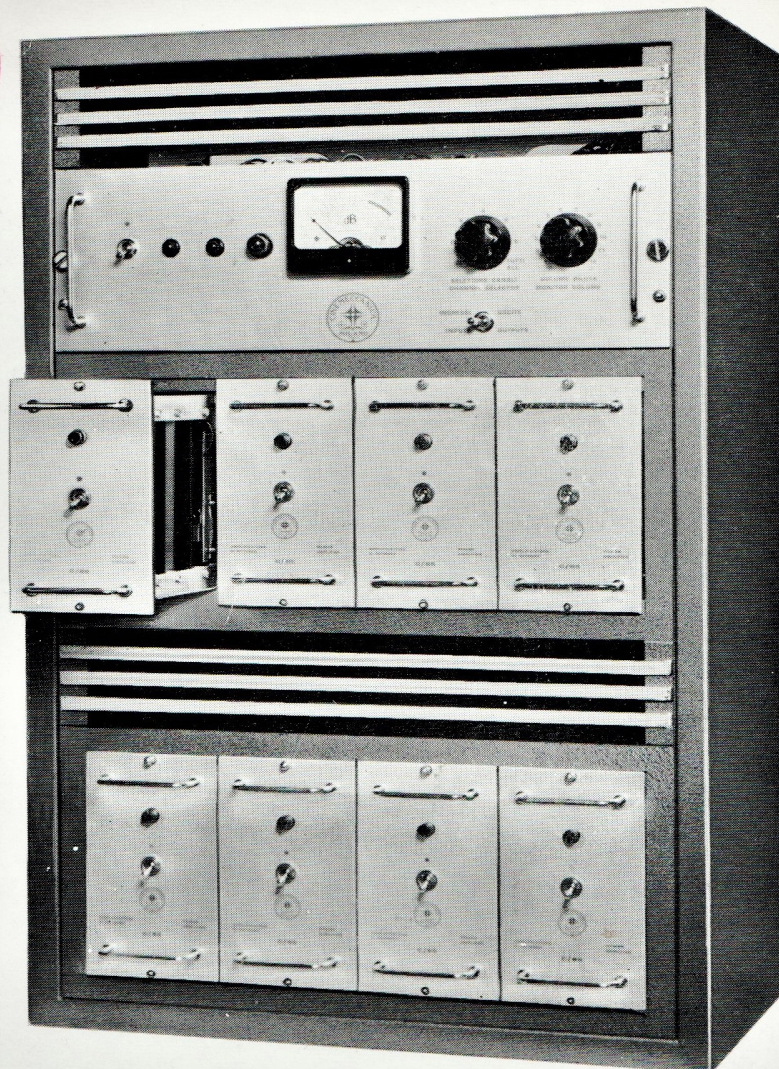
CONTROL PANEL OF SYSTEM CONTROL UNIT

SYSTEM CONTROL UNIT

The robust metal cabinet of the system control unit is designed to be mounted on the front wall of the projection room between the two projectors and its function is to centralise sound changeover, system selection, volume control, effects switching, non-synchronous pre-amplifiers and power supply to the pre-amplifiers. A dial, rear-illuminated and graduated, is provided for the main volume control; effects volume can be regulated by a separate control; pilot lamps indicate which projector is in use. Record/Tape/Microphone selection is made by means of a selector switch. The selection between optical, 35 mm. magnetic or 70 mm. magnetic is achieved by a separate switch.

POWER AMPLIFIER ASSEMBLY

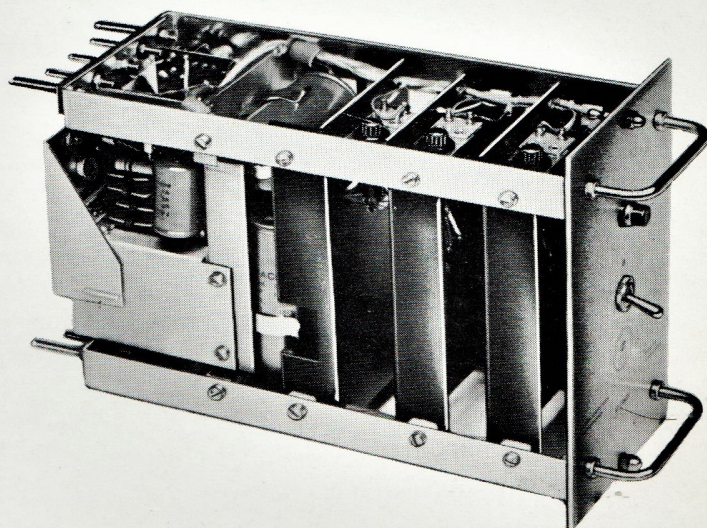
The power amplifier cabinet houses eight power amplifier modules. Six are employed to feed theatre speakers, a seventh to feed the monitor speakers, and one is a spare. The modules are easily inserted and can be instantly replaced. Integral with the assembly is a control panel having a master on-off a.c. switch with fuses and indicator lamp. A meter provides a means of checking the input and output level in each channel. A toggle switch selects inputs or outputs while a rotary switch selects the channel for testing and monitoring.



POWER AMPLIFIER ASSEMBLY

POWER AMPLIFIER MODULE

This is an all silicon unit which has many advantages over germanium in power amplifiers. Each module has its own built-in power supply, and large heat sinks have been used to allow cooling by convection. Output transistors of diffused-junction type have been specially designed to be free from secondary breakdown. All connections are at the back; four massive register pins are provided to ensure correct insertion. The amplifier is rated at 30 W. (British Standard) and has a frequency response better than 20 to 20,000 cycles per second.



POWER AMPLIFIER MODULE



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SCREEN SPEAKERS

Loudspeakers used are of the "Duosonic" or "Biphonic" type, each having multi-cellular horns with high quality pressure unit for upper frequency response. These, in conjunction with suitable frequency dividing networks, are mounted on bass baffle wood horns which incorporate large diameter moving coil cone speaker units.

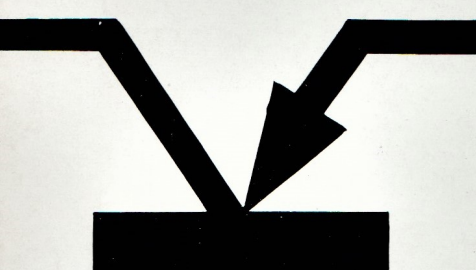
The seating capacity and auditorium lay-out determine the dimensions and power of the upper frequency horns and lower frequency units and baffle systems.

AUDITORIUM AMBIENT SPEAKERS

As with the screen speakers, the size and design of the auditorium materially affects the quantity and type of outlets, which vary between simple cone units mounted in the structure of the building to elaborate two-way speaker systems of small dimensions.

Rank Audio Visual offers a full range of Cinemeccanica Projection and Sound equipment for professional presentation. We would be pleased to advise on the most suitable combination of equipment for specific locations.

Rank Audio Visual also supplies Projectomatic and Cinemation automated cinema control equipment and its Contract Service is the largest in the United Kingdom, providing theatre seating, carpeting, stage- and wall-drapes, and projection screens.



Illustrations of equipment cannot be taken as binding as modifications are incorporated from time to time to take advantage of advances in technology.