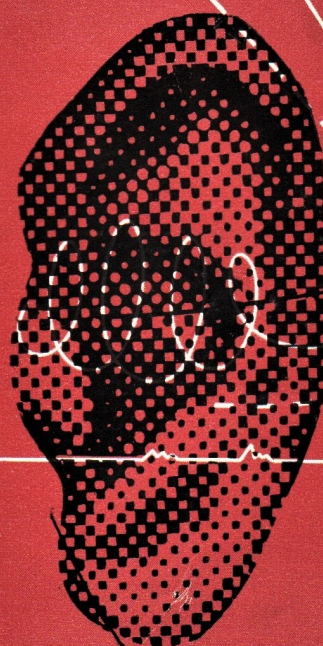


SOUND

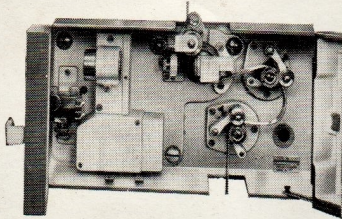
BY GAUMONT-KALEE



GAUMONT-KALEE

SOUNDHEADS

T Y P E " 8 3 "



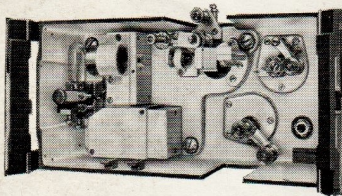
Designed to satisfy not only the most exacting theatre conditions, but also the higher standards required for film-studio re-recording. It incorporates drum scanning and fluid-flywheel stabilization, and the unique enlarged image optical system.

The optical magnification is six times that of the actual soundtrack, and to ensure maximum efficiency all surfaces of the optical units are bloomed.

Two sprockets with lay-on rollers and film strippers provide for accurate and smooth travel of the film through the soundhead. Essential parts are resiliently mounted.

The motor drive to the soundhead is by twin canvas and rubber belts, and by a chain to the bottom take-up.

T Y P E " 6 7 8 "

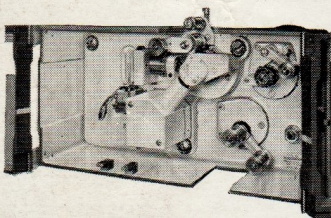


Constructed on the same principles as type "83", employing the high efficiency enlarged image optical system, drum scanning and fluid-flywheel stabilization.

A single film sprocket only is fitted, which is insulated from any irregularities raising from the bottom take-up by a jockey roller on a spring loaded arm.

Twin canvas and rubber belts drive the soundhead and a chain is used for the bottom take-up.

T Y P E " 5 4 3 "



Drum scanning with fluid-flywheel is employed ; the optical system is of the front scanning or projected slit type.

The scanning unit is shock-absorber mounted and the film sprocket is isolated from disturbances originating from the bottom take-up by a cushioning roller mounted on a spring loaded jockey arm.

Belt drive is employed between motor and soundhead, also for the take-up.

D R I V I N G M O T O R S

for all models can be supplied for operation from 40, 50 or 60 cycle supplies in the range 95-130 volts, or 190-260 volts.

Gaumont-Kalee Soundheads are an achievement of high precision engineering, assemblies are interchangeable, thus avoiding the necessity for part fitting and providing simplicity in maintenance.

Gaumont-Kalee Soundheads are available for use with all leading makes of Projection Equipment.



GAUMONT-KALEE

AMPLIFIERS

The Gaumont-Kalee "18" Amplifier is an entirely new design and is available in two ratings—Single Channel with one power amplifier of 18 speech watts output and Dual Channel with two power amplifiers providing a total of 36 watts output.

Each power amplifier is a self-contained unit comprising the complete amplifier chain from photocell input to power output for speakers, the Westinghouse Metal Rectifier circuit for exciter lamp supply ; the main Volume Control ; the Sound Changeover Switch ; the "film-disc-microphone" Switch ; and The Monitor Speaker.

Switchgear provided in the Dual Channel model permits the selection and use of, alternatively, Power Amplifier "A" alone, Power Amplifier "B" alone, or Power Amplifiers "A" and "B" coupled together to give 36 watts.

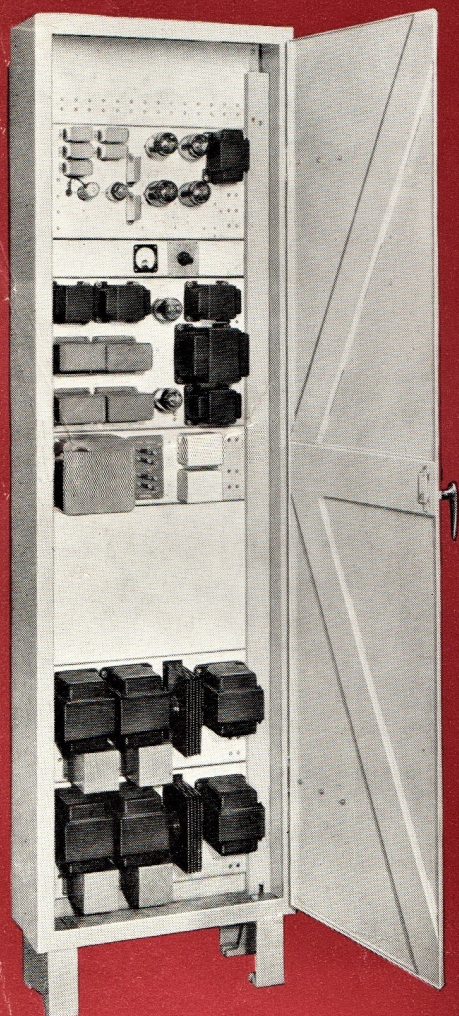
The built-in Monitor Speaker absorbs 3 watts and has stud-contact volume control. Provision is made for switching off the auditorium speaker. Sound changeover from one machine to the other is effected by switching the exciter lamps. Remote control of the changeover from the operating side of the right-hand machine is by a separate lever, housed in a small steel wall-mounted case, mechanically coupled to the actuating lever on the amplifier by a push-pull cable. Operation of either the control on the amplifier or the remote control moves both.



The amplifier chassis is secured to a wall mounting tray by a quick release hinge at the bottom and two screws at the top. For inspection, the two screws are removed and the chassis swings forward to a horizontal position, where it is held by a stay, and all back-of-chassis components and wiring are accessible for immediate attention. The functioning of the amplifier is not disturbed by this action, so that an intermittent fault can be readily traced.

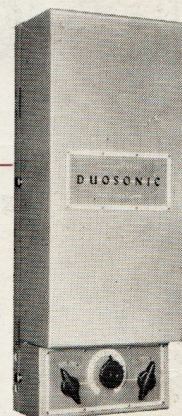
Removal of the front cover gives instant access to the valves and above chassis components.

Externally the amplifier unit is of very attractive appearance and finished in the Gaumont-Kalee standard mid-stone colour.



ALTERNATIVE AMPLIFIER EQUIPMENT—30 WATTS

The complete 30-watt amplifier system for a single or dual channel is built up from basic units all of which are mounted on panels of uniform width. Every component is rated for continuous tropical use and in the design care has been taken to operate valves and rectifiers at less than the manufacturers' rating. The equipment comprises a 3-stage pre-amplifier, volume control, 30-watt power amplifier, power supply unit, meter panel, dividing network and exciter lamp supply units.



GAUMONT-KALEE DUOSONIC LOUD SPEAKERS

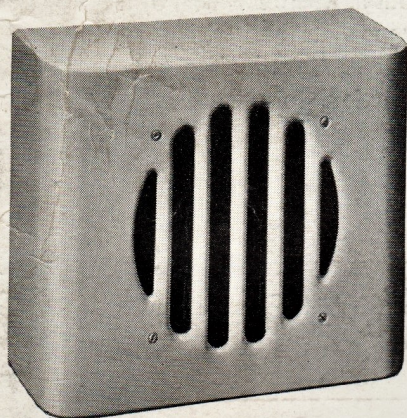
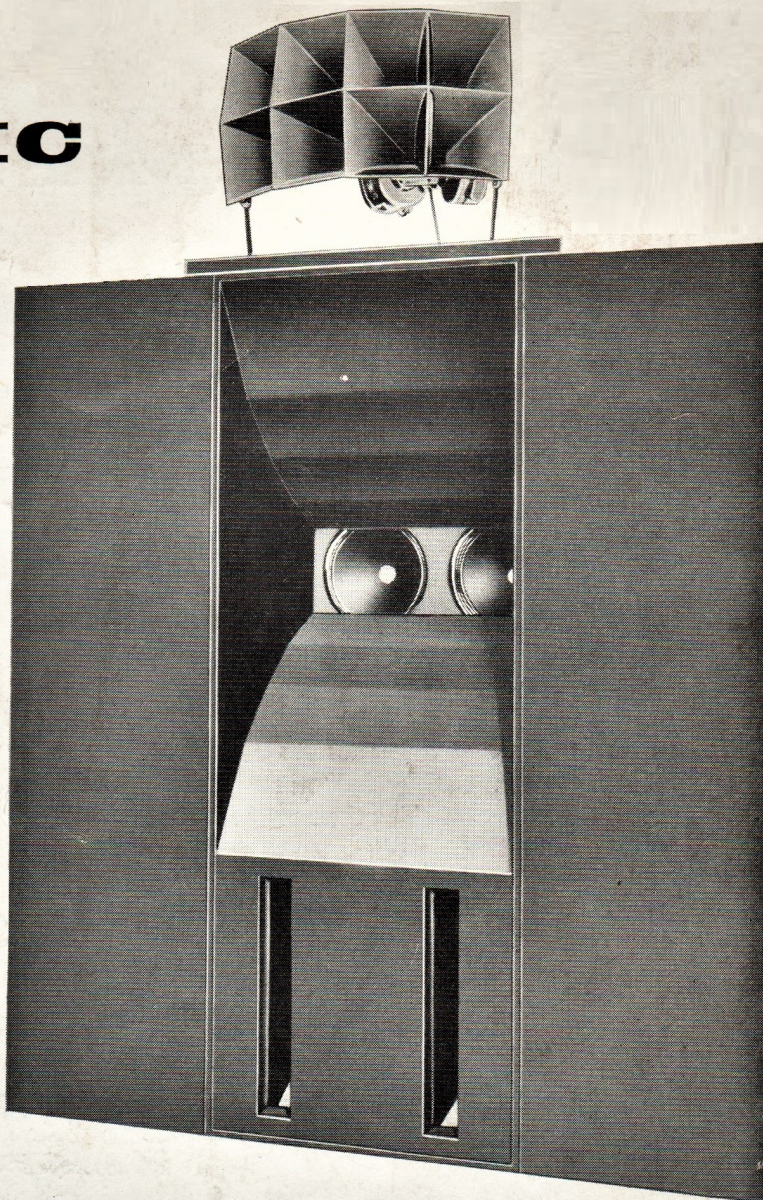
The frequency range of Gaumont-Kalee Duosonic Loud Speakers is considerably wider than that commercially possible to record on film.

There is a range of five models—for small cinemas No. "0", cinemas of average size model No. "1" and for large auditorium or difficult acoustic conditions either No. "2", "3" or "4".

The selection of the correct model is always dependent on the shape as well as the size of the auditorium and no general recommendations can be given as to the speakers needed for a theatre of a specified seating capacity. A survey of the hall or an examination of the plans is always advisable.

All speakers are of the permanent magnet type and utilize all metal multicellular treble horns with metal diaphragms ensuring even distribution over the entire auditorium. There is no rear emanation.

They are compact in design without any sacrifice in performance.



*The Gaumont-Kalee Monitor
Speaker for installation in
the operating booth.*



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