

**GAUMONT-KALEE**

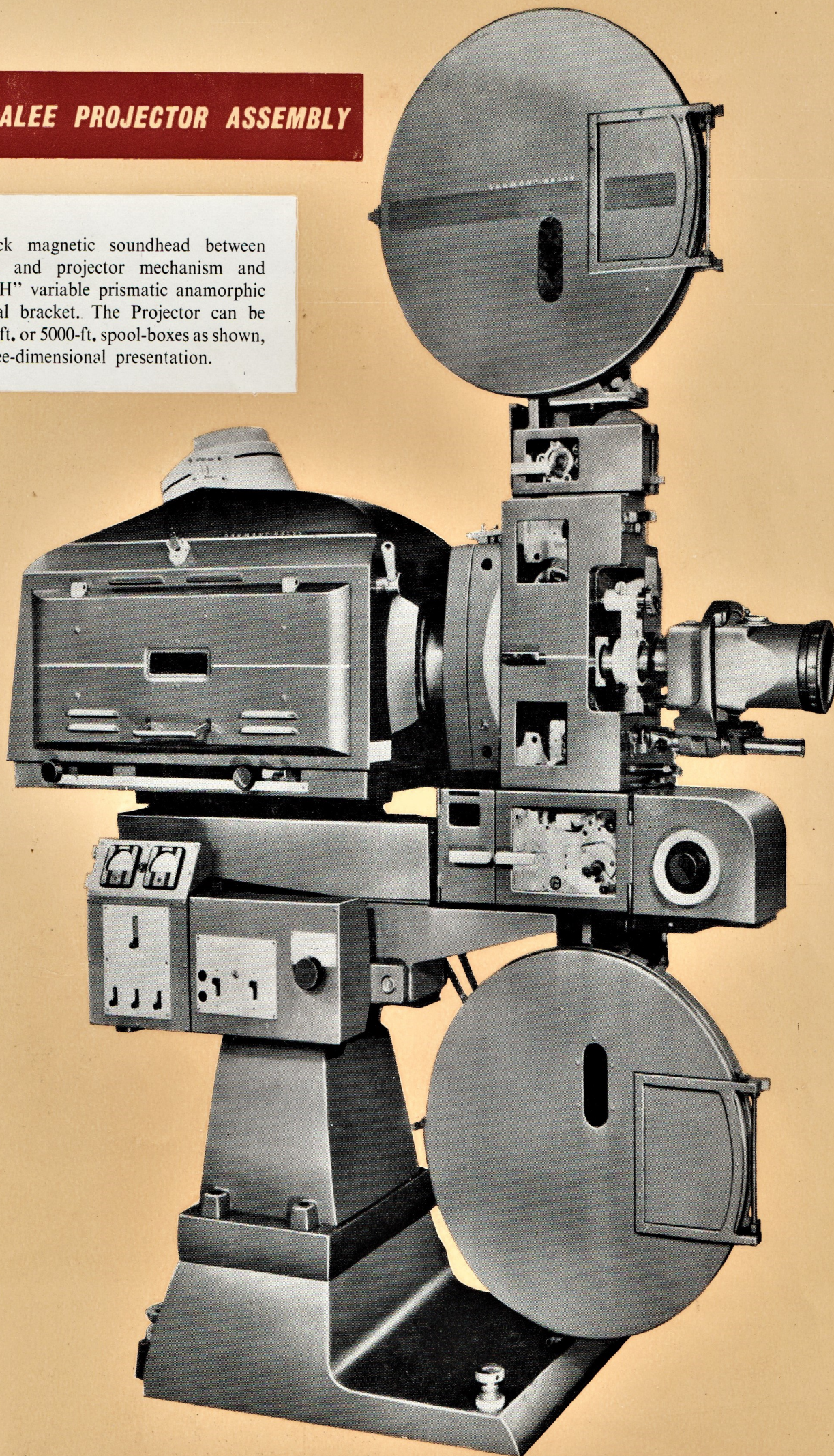
**Anamorphic Lenses  
and  
Stereophonic Sound**  
REPRODUCING EQUIPMENT

**For use with CINEMASCOPE, PERSPECTA  
and ALL other Large Screen Systems**



## GAUMONT-KALEE PROJECTOR ASSEMBLY

Showing 4-track magnetic soundhead between top spool-box, and projector mechanism and "VARAMORPH" variable prismatic anamorphic lens and special bracket. The Projector can be fitted with 2000-ft. or 5000-ft. spool-boxes as shown, for use on three-dimensional presentation.



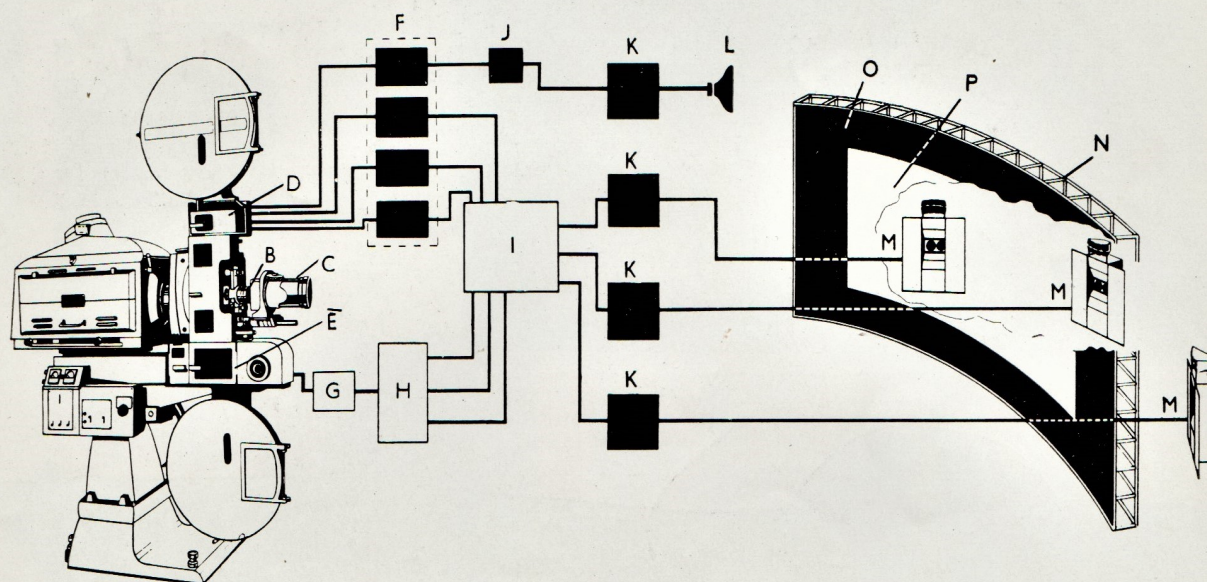


# Stereophonic Sound Reproducing Equipment

The new Gaumont-Kalee Stereophonic Sound Equipment is designed for multi-channel magnetic (Cinemascope), multi-channel photographic (Perspecta), and single-channel standard photographic reproduction. It is a "composite" equipment of the highest efficiency enabling the replacement of old reproducer systems at an extremely low cost.

The power output of the amplifiers is 18 watt for the smaller hall, but by increasing the number of units it can be increased to 36 watts for the largest cinema.

Diagram shows the equipment required for both magnetic and photographic stereophonic sound.



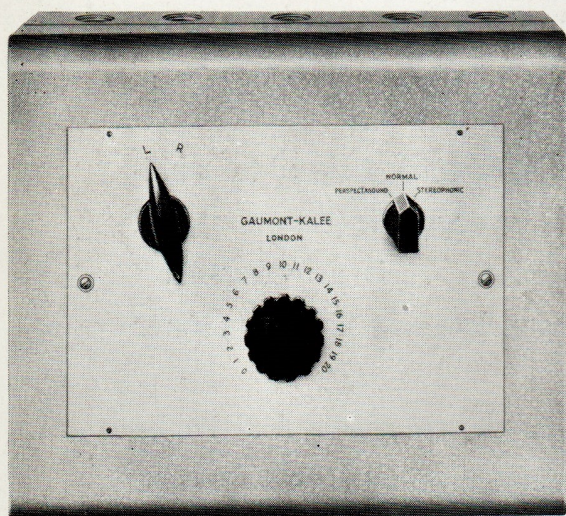
- B** High Definition backing lens and adaptor
- C** "VARAMORPH" Variable prismatic anamorphic lens and bracket
- D** Four-track Magnetic Soundhead
- E** Photographic Soundhead
- F** Magnetic channel pre-amplifier with four independent amplifiers
- G** Photographic Pre-amplifiers
- H** Integrator Unit for use with "Perspecta" sound

- I** Main Volume Control and System selector unit
- J** Effects Control Unit
- K** Power Amplifiers for four channels
- L** Auditorium effects speakers
- M** "Duosonic" stage speakers
- N** "Magnascope" Screen Frame
- O** Variable masking
- P** "Miracle Mirror" or aluminised screen

The above key letters identify the equipment illustrated on the following pages.

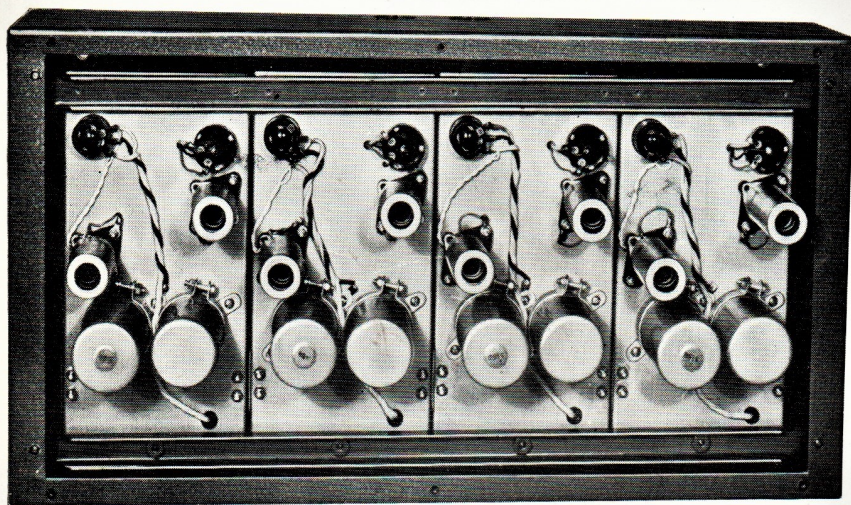


# Stereophonic Sound Reproducing Equipment for Small and Large Halls



**Fig. I** TYPE 905 Three-gang Main Volume Control and System Selector Unit, with changeover switch for two projectors.

**Fig. F** TYPE 914 Magnetic Channel Pre-Amplifier with four independent amplifiers.



**Fig. K**

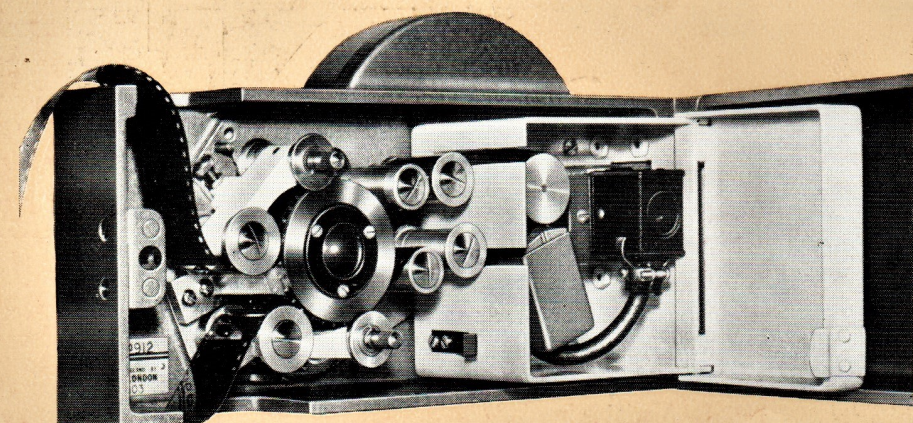
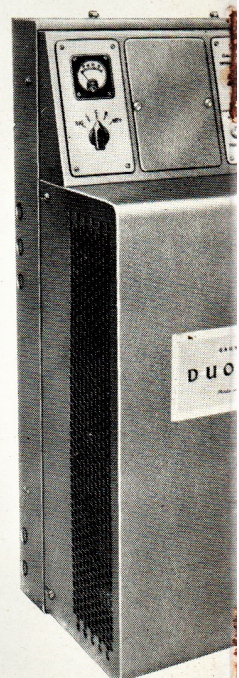
## TYPE 808 Photographic Single Channel POWER AMPLIFIER

Embodies in one unit, film, disc and microphone inputs, exciter lamp supply and monitor loud-speaker.

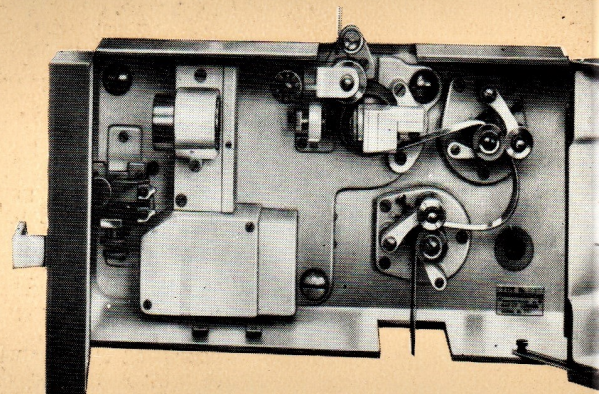


**Fig. H**

## TYPE 1092 Integrator Unit (Photographic) for use with "Perspecta" Sound film.



**Fig. D** TYPE 912 Four Track Magnetic Soundhead  
Quadruple magnetic pick-up head, plug connected for easy replacement. Tight-loop system, magnetic unit shielded in mu-metal box.



**Fig. E** TYPE 83 Photographic Soundhead. Incorporates drum scanning, fluid fly-wheel stabilization and enlarged image optical system.

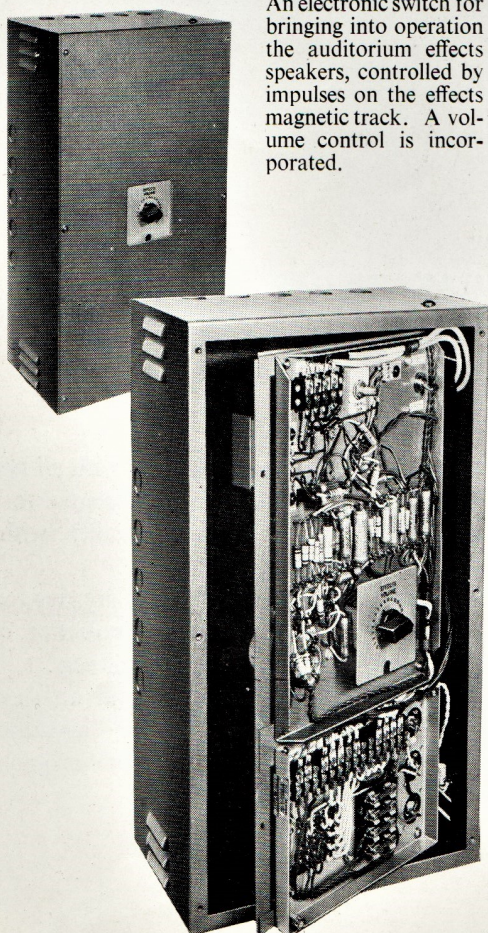




**Fig. K** POWER AMPLIFIERS for "Cinemascope" Magnetic and "Perspecta" Photographic Stereophonic Sound.



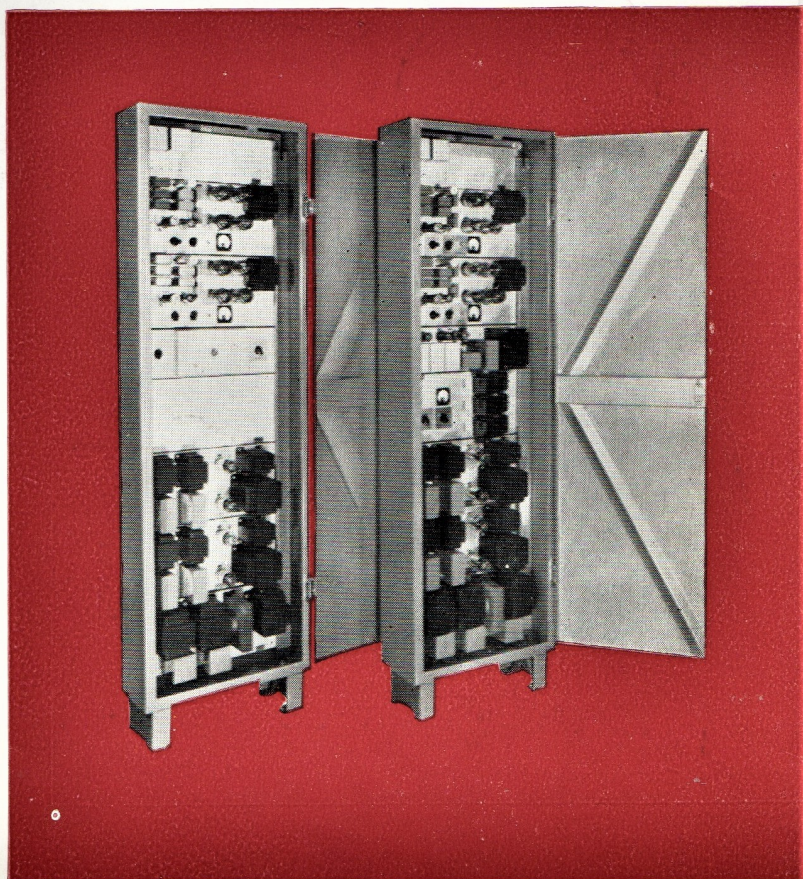
**Fig. J** TYPE 968 Control Unit for Effects Speakers



An electronic switch for bringing into operation the auditorium effects speakers, controlled by impulses on the effects magnetic track. A volume control is incorporated.

**Fig. K** 30-WATT 4-CHANNEL AMPLIFIERS

The alternative amplifying equipment shown below consists of four 30-watt power amplifiers suitable for any system at present in use. Two amplifiers are contained in each cabinet. This type of unit can be supplied as single or dual photographic channels, or as additional power channels where the photographic channel is already installed.







**Fig. C** Gaumont-Kalee Anamorphic Lens Bracket as fitted to the Gaumont-Kalee range of projectors

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### **Anamorphic Lens Bracket**

Optical and projection experts are unanimous on the merits and superior advantages of the mechanical principle of fixing anamorphic lenses as employed in the Gaumont-Kalee bracket.

It is the only efficient and assured method for instantaneous changeover from one type of film system to another.

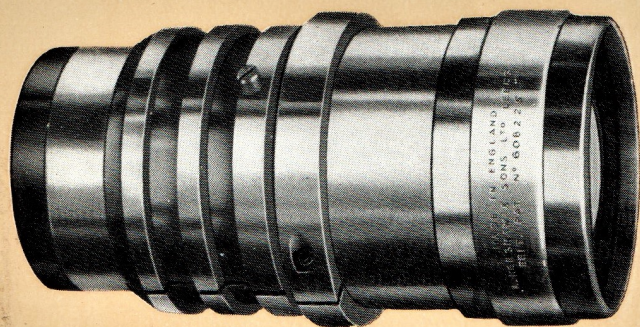
The pre-focussed "Varamorph" can be swung out of the optical path for the projection of normal films, and brought back into use in perfect focus, to pre-determined adjustments for instant projection of anamorphic prints.

No light losses are imposed during projection of normal films, and damage to valuable lenses in changeover is avoided.

An adaptor is also available for fitting standard fixed type cylindrical anamorphs in the bracket for use with ultra short or long focus lenses.

Models are available for fixing to all well-known makes of projectors.

**Fig. B** High Definition Lens and Adaptor.



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### **Series 'S' High Definition Lenses**

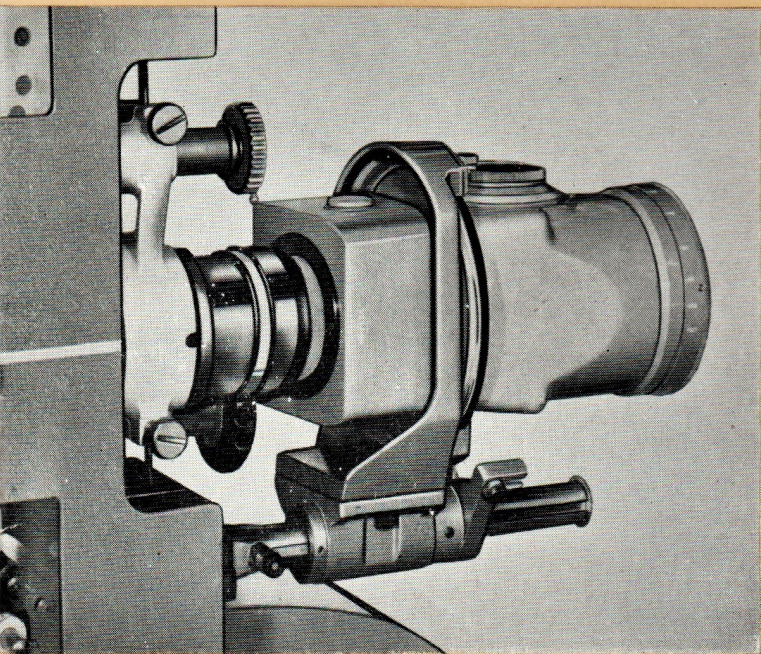
Because of the great magnification with all systems of wide screen presentation, it is essential to use a backing lens of the highest quality with the anamorphic attachment.

Gaumont-Kalee Series 'S' lenses are designed to give high definition, undistorted projection of the picture, and maximum screen brightness.

The lens illustrated is fitted with an eccentric pre-focussing adaptor to obtain accurate re-alignment of optical centre for magnetically recorded Cinemascope films.

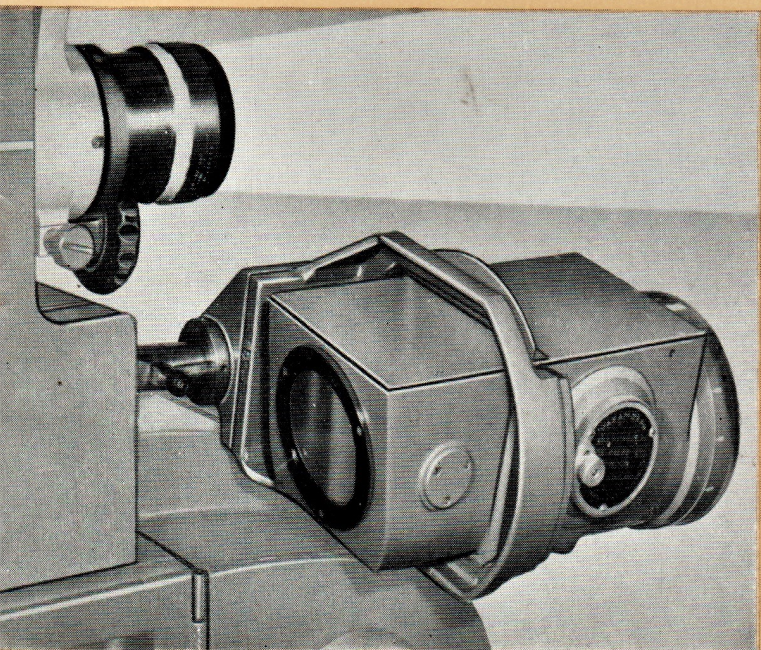


# Anamorphic Lenses



**Fig. C** Gaumont-Kalee 'VARAMORPH' Variable Anamorphic Lens and Bracket

*'VARAMORPH' swung away for normal projection*



The Anamorphic or "squeeze" lens attachment is the key to Cinemascope and other anamorphic systems. On the camera lens, the anamorph "squeezes" a wide picture on to 35mm film. On the projector it reverses the process, and "spreads" the picture on to a curved screen with the aspect ratio required.

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**'VARAMORPH'**

***Variable Prismatic Anamorph***

Variable for all known expansion ratios; instantly adjusted during projection by a knob which can be locked in position.

Variable for any length of throw. Special focus control by a graduated ring to ensure perfect definition at any length of throw—an exclusive "Varamorph" feature.

Sharp focus is retained in the horizontal and vertical directions at all expansion ratios.

Equal light transmission over the whole screen.

All glass surfaces hard coated for maximum light transmission.

Completely enclosed to prevent dust entering the optical system.

Designed for mounting in the Gaumont-Kalee Anamorphic Lens bracket which enables the pre-focussed "Varamorph" to be swung out of position for normal projection and brought into use to pre-determined adjustments for instant projection. *No light losses are imposed during normal projection.*

Standard fixed type cylindrical anamorphs are available for use with ultra short or long focus lenses.

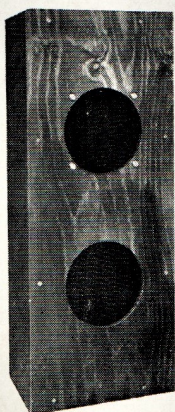


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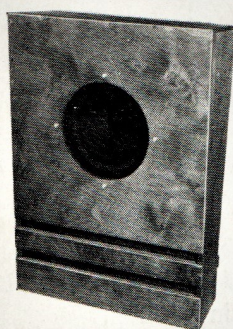
# DUOSONIC

LOUDSPEAKERS

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 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.



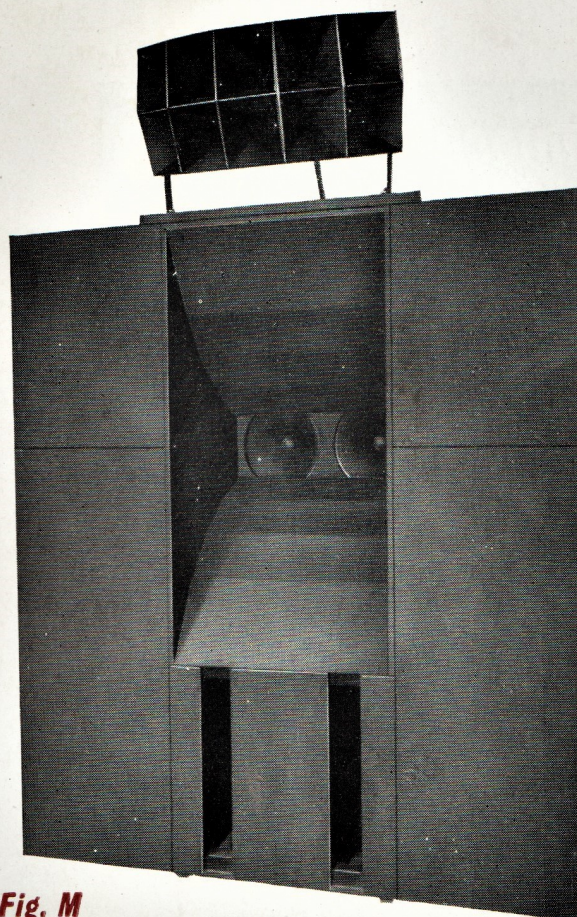
**Fig. L**



AUDITORIUM EFFECTS LOUDSPEAKERS

Type 978

Type 1071



**Fig. M**

DUOSONIC STAGE LOUDSPEAKER

Type No. 2

## G.B.-KALEE LIMITED

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