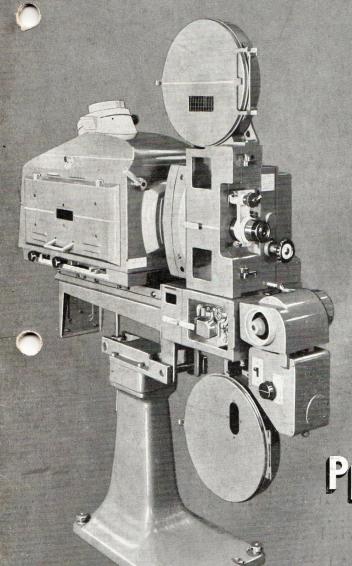
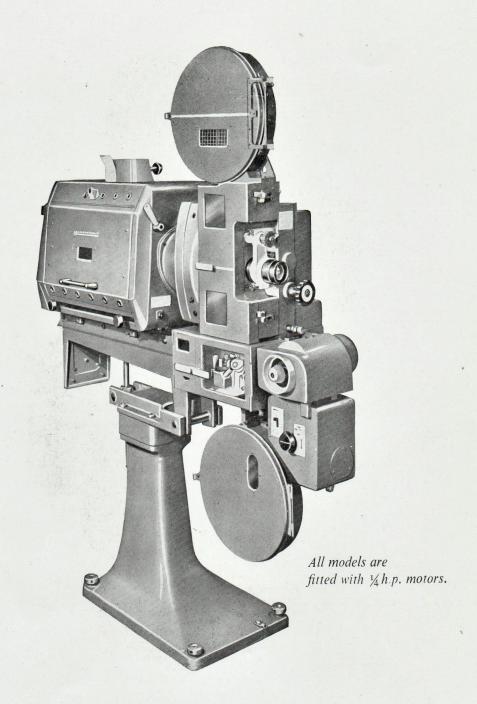
A GÁUMONT-KALEE PRODUCT



GK18

PROJECTION & SOUND EQUIPMENT

The CAUMONT-KALEE 18



This Model has

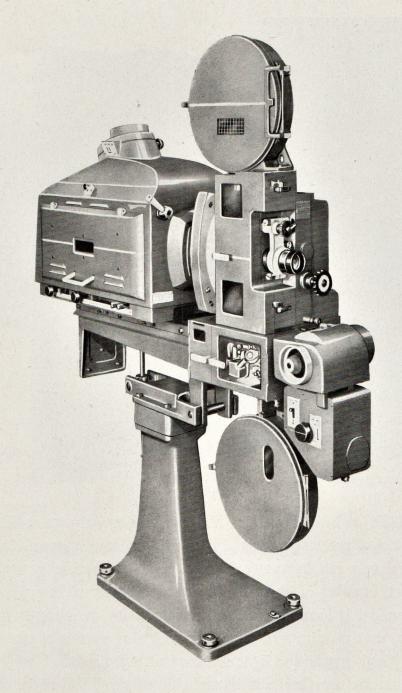
TOTALLY ENCLOSED MECHANISM

and is fitted with the

"UNIVERSAL"

ARC LAMP

The GAUMONT-KALEE 18



This Model has

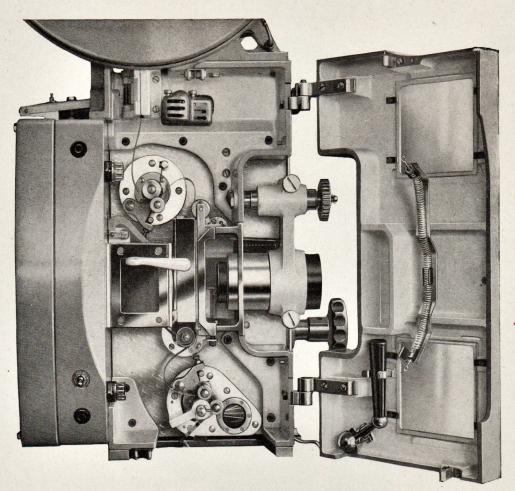
TOTALLY ENCLOSED MECHANISM

and is fitted with the

"PRESIDENT"

ARC LAMP

The GAUMONT-KALEE



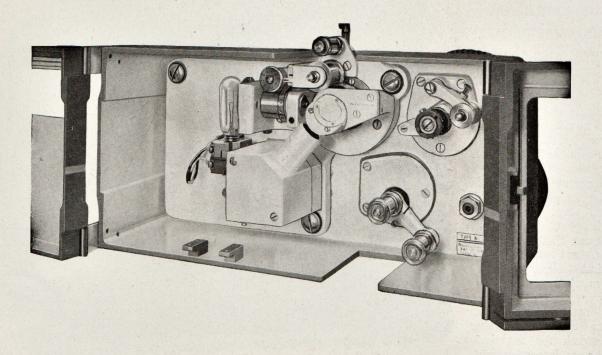
TOTALLY
ENCLOSED
PROJECTOR
MECHANISM

The Gaumont-Kalee enclosed Projector Mechanism not only embodies the main and proved characteristics of previous models of the world-famous Gaumont-Kalee machines, but incorporates several new and important features. The mechanism is totally enclosed with all mechanical parts running in an oil bath. A scientifically sprung parallel gate, quickly detachable for cleaning, is incorporated. All main sections are built on the unit principle, readily detachable, thus permitting indefinite life. A rear shutter of the two-blade pattern provides for a very high standard of light efficiency without flicker. The position of the gate in relation to shutter and lens has been arranged to make full use of the new wide aperture colour-corrected "bloomed" projection lens. The Gaumont-Kalee Lens is of the latest design, having an effective aperture of f 1.9, thereby passing the maximum amount of light, whilst the patented Gaumont-Kalee coating process ensures the correct rendering of high lights, shadows and half tones. Pressure rollers are self-sustaining in open position. Electrically operated picture changeover (optional), can be incorporated with fire shutter and arranged for remote control. There is provision for the specially designed automatic "Pryene" Fire Extinguishing Equipment as an integral part of the Projector when this optional equipment is ordered.

The

GAUMONT-KALEE

SOUNDHEAD TYPE 543



The Gaumont-Kalee type 543 Soundhead employs drum scanning with fluid flywheel stabilizer; the scanning unit is shock-absorber mounted. Micrometer adjustment of film guide roller is provided.

The film sprocket is isolated from disturbances originating from the bottom take-up, or from a bent bottom spool, by a cushioning roller mounted on a spring loaded jockey arm.

The optical system is of the front scanning or projected slit type, and the exciter lamp is of the standard 8-volt 4-amp. type. The exciter lamp holder has a quick acting height adjustment to cope with variations in individual exciter lamps.

Belt drive is employed between motor and soundhead, also for the take-up, and motors can be supplied for operation from 40, 50 or 60 cycle supplies, in the range 95-130 volts, or 190-260 volts. Mechanical assemblies are standardised in interchangeable units, thus avoiding the necessity for part fitting, and providing simplicity in maintenance.

The Soundhead is finished internally in mid-stone; internal assemblies are finished in hard porcelain white enamel, which facilitates inspection and affords greater cleanliness.

The GAUMONT-KALEE

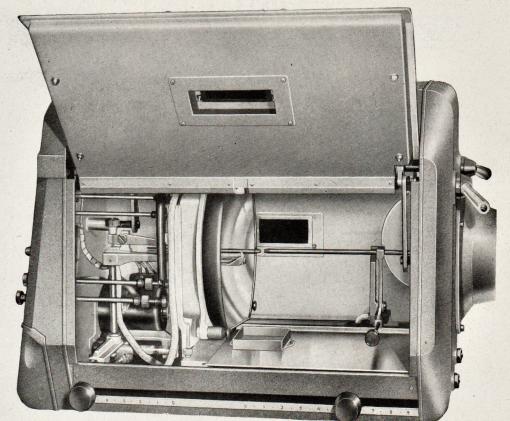
"UNIVERSAL" ARC LAMP

ADAPTABLE FOR OPERATION ON D.C. HIGH AND LOW INTENSITY, AND A.C.

The front and rear of the lamp - house are castings, secured by the mechanism guide-bars and the door pivot rods. The side doors, which open to the full width of the lamphouse, are of formed sheet steel panels. The lamphouse contains the arc-burner mechanism, feed motor, and metal - backed elliptical mirror of 12" (305 mm.) diameter.

The rear control panel carries the potentiometer and switch for the feed-motor, arc inspection window, negative crutch and

dow, negative crutch and mirror tilt controls. The panel is readily detachable for access to wiring and lamp mechanism. The mirror and light cut off are positively linked, and may be operated from either side of the lamp.



CARBONS

The following "SHIP" Carbon Combinations, voltages and amperages are recommended.

HIGH INTENSITY

POS.	NEG.	Amps.	Arc Volts			
6 mm	5 mm	30–40	32-38			
7 mm	6 mm	40–50	33–41			
8 mm	7 mm	50-60	37-43			
6 mm	5 mm	35-45	32–38			
7 mm	6 mm	45- 55	34-41			
8 mm	7 mm	56-65	38-42			
	6 mm 7 mm 8 mm 6 mm 7 mm	6 mm 5 mm 7 mm 6 mm 8 mm 7 mm 6 mm 5 mm 7 mm 6 mm 5 mm	6 mm 5 mm 30-40 7 mm 6 mm 40-50 8 mm 7 mm 50-60 6 mm 5 mm 35-45 7 mm 6 mm 45-55			

	LOW IN	NTENSITY		
	10 mm	7 mm	15-20	45-50
61.1	11 mm	8 mm	20–25	48-52
Ship	12 mm	9 mm	25-30	48-52
"LUXO"	13 mm	9 mm	30–35	48-52
	14 mm	10 mm	35-40	50-55

A.C. SU	PPLY			
7 mm	7 mm	65–75	25-26	
8 mm	8 mm	80–90	25-26	
9 mm	9 mm	95-105	26-28	
	7 mm 8 mm	8 mm 8 mm	7 mm 7 mm 65–75 8 mm 8 mm 80–90	

Installation wiring is facilitated by the terminal block, beneath the rear panel, at which all internal wiring terminates. The removal of the cover casting also exposes the gear train driving the mechanism, and alternative gears, for converting the lamp for use on high intensity, low intensity, or A.C., can be exchanged quickly. The driving motor, when the lamp is used on A.C., will require a source of D.C. supply, and a unit for this purpose is included in the standard Gaumont-Kalee Inductor; where the A.C. supply is taken from any other source it is recommended that the Gaumont-Kalee Motoverter be used for this purpose.

Manual controls are provided for carbon-adjustment without interference with the automatic drive, and for rapid resetting when carbons are changed. An external scale indicates the available length of carbon.

The heat-resisting carbon holders, of simple screw clamp type, accept any appropriate size of carbons.

The Magnetic Arc Flame control adjusts its own field strength automatically to the arc current, for correct arc formation with maximum stability.

An enlarged image of the arc is projected to a convenient viewing position at the base of the chimney.

The CAUMONT-KALEE



The clean - cut streamlined exterior of the "President" gives an indication of a completely new departure in arc lamp design. One new and outstanding feature is the employment of twin motors to ensure accurate automatic feed with any H.I. carbon combination, over a range of 30-65 amps. Accommodates up to 18" (457 mm.) positive carbon. Every detail has been appropriately designed and tested - even to the lamphouse chimney which is tiled at 15° to allow for easy connection of vents at all operating rakes. This care

of detail combined with precision manufacture, simplicity of operation, and adequate cleaning facilities, ensures many years of trouble-free service.

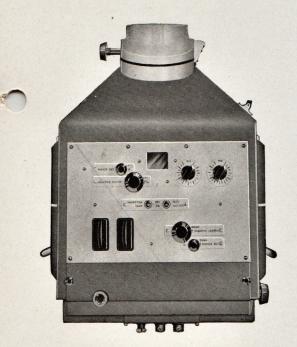
SPECIFICATION.

The Gaumont-Kalee "PRESIDENT" High Intensity Arc Lamp complete with 14" (355 mm.) diameter elliptical metal backed mirror, twin motor drive, potentiometer controls, external carbon scale, scissors-type striker, flame control, interior inspection lamp, arc periscope fitted in streamlined lamphouse with control panel at rear, and finished in midstone, maroon, and white; ready for use on D.C. supply.

CARBONS

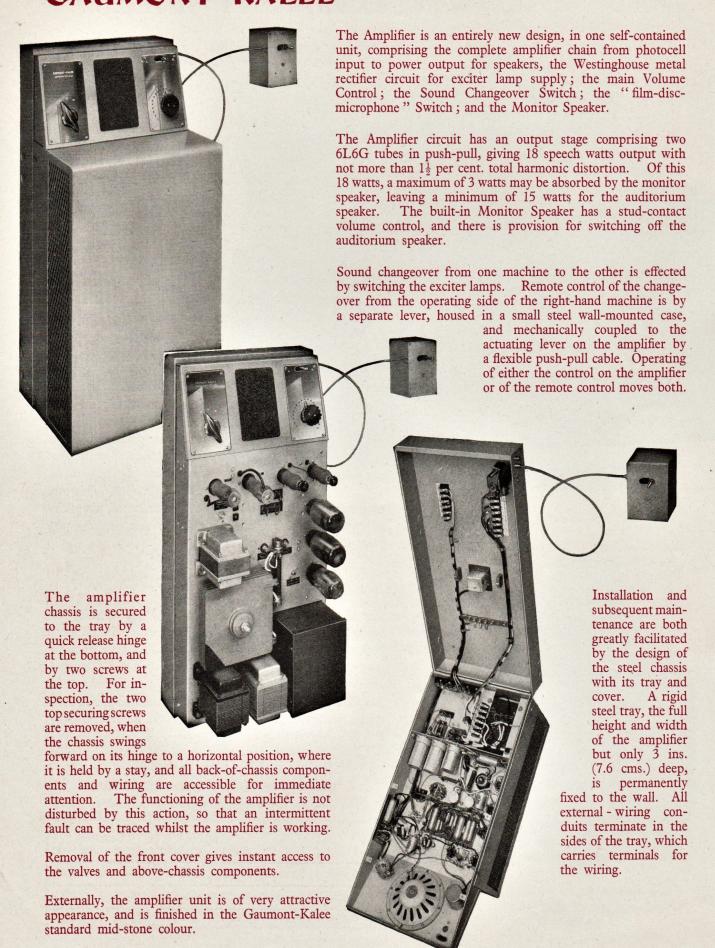
The following "SHIP" carbon combinations, voltages and amperages are recommended.

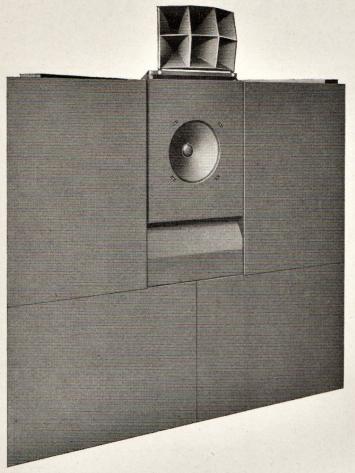
POS.	NEG.	" Cen	relux " Arc Volts	"Cereluxa" Amps Arc Vo				
6 mm	5 mm	30–40	32–38	35-45	32–38			
7 mm	6 mm	40-50	33–41	45-55	34-41			
8 mm	7 mm	50-60	37–43	56-65	38-42			



Rear view of the "President" Arc Lamp showing control panel.

GAUMONT-KALEE 18 WATT AMPLIFIER





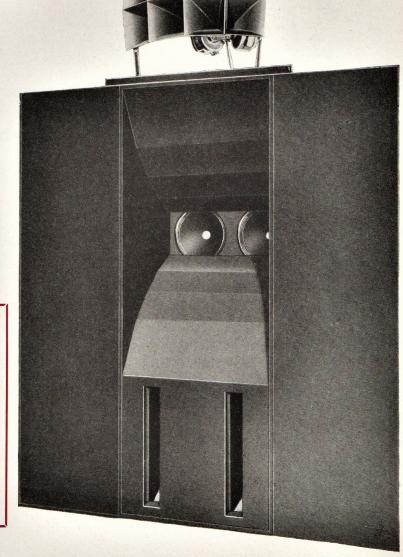
DUOSONIC LOUD-SPEAKERS

The Gaumont-Kalee '18' Sound Equipment is offered with various sizes of Duosonic Speaker assemblies. For small cinemas No. "0" is used, for average size cinemas No. "1" is used, and for cinemas of above average size, or difficult acoustic conditions, either No. "2" "3" or "4" (not illustrated) is used. The selection of the correct size of speaker depends on the shape as well as the size of the auditorium, and survey of the hall or examination of plans, and no general recommendation can be given as to the speakers needed for the theatre of a given seating capacity.

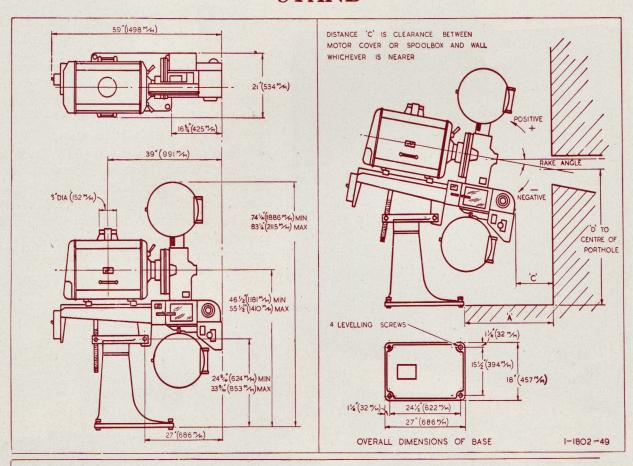
In both the speaker assemblies referred to, the speaker units are of the permanent magnet type. These two speakers give the utmost fidelity of reproduction. They utilise all metal multicellular treble horns driven by units having all metal diaphragms, thereby ensuring even distribution of sound over the entire auditorium. These horns are of the direct flare type with no rear emanation.

"PYRENE" FIRE EXTINGUISHER EQUIPMENT

This is an optional accessory, at an extra charge, which is built into the equipment when specifically required. It comprises a CO₂ cylinder, striker mechanism and automatic cut-off switches for the motor and arc lamp. In the event of a fire occurring in any part of the film track, it has been proved by exhaustive tests that this extinguisher equipment will put out the fire instantaneously. The insertion of a fresh CO₂ cylinder and the resetting of the striker mechanism can be completed in a matter of seconds, with the result that the performance can proceed almost immediately on the same machine.



The CAUMONT-KALEE 18 STAND



DIMENSIONAL & INSTALLATION DIAGRAM FOR GK 18 OUTFIT

PORTHOLE HEIGHTS OF STAND FOR 52 1 (1333 M/M) LEVEL OPTICAL CENTRE

	WHEN	1 A=2	6"(66	O MM)	WHEN	A=32	(819)	M/M)	WHEN	A-38	8 (965	M/M)		WHEN	A-26	6660	M/M)	WHEN	A-32	2"(819	M/M)	WHEN	A=38	3"(965	5 M/M)																												
		D	(D	(0) C		D		D		D		D		D		D		D		С		С		С		С		С		С		С		C		D		C		D		C		D		C	
RAKE	INS	M/M	INS	M/M	INS	M/M	INS	M/M	INS	M/M	INS	M/M	RAKE	INS	M/M	INS	M/M	INS	M/M	INS	M/M	INS	M/M	INS	M/M																												
+ 5°	55‡	1403	9 7	251	55 }	1416	15 7 8	403	56‡	1428	217	556	- 13°	NE BY	The state of		0.74	43 %	1114	12 3	321	42 1/2	1079	18 5	474																												
+ 4°	54 3	1390	91-	248	55	1397	15 3	400	55 1/2	1409	21 1	553	- 14°					43 1	1095	12	305	41 5	1057	18	458																												
+ 3°	54 -	1374	93	244	543	1381	15 %	396	545	1387	213	-549	- 15°	8(2)481	-			42 1	1079	11 +	286	40%	1038	17 4	439																												
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+ 1°	53	1346	9 3	238	53	1346	15 3	390	53 %	1349	21 3	543	- 17°			MARKET		41	1041	10	254	391	997	16	407																												
- 0°	52 ½	1333	9 :	235	52 ₺	1333	15 ‡	387	52 1	1333	21 1	540	-18°					40 :	1022	9 3	238	38 1/8	974	15 1	391																												
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- 4°	50 ±	1276	82	225	50	1270	14 2	378	49 1	1257	20%	530	-22°	-			00015	OV C	000	TO		35	889	12 7	327																												
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-8°	48 1	1222	8 3	213	471	1200	14 3	365	46 1	1181	20 3	518	-26°			1000		PARK	(,,		31 1	800	10%	270																												
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-12	45 1	1162	7 ;	184	44	1130	131	336	43 1	1098	19‡	489	-30							10/7 KB		28 +	714	81	216																												

ALTERNATIVE HEIGHTS

3"(76 M/M) HIGHER - ADD 3"(76 M/M) TO D' ABOVE 3"(76 M/M) LOWER - SUBTRACT 3"(76 M/M) FROM D' ABOVE 6"(152 M/M) " 6"(152 M/M) - "

1-1803-49

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GAUMONT-KALEE PRODUCT

Distributed throughout the World by



G.B-KALEE LTD

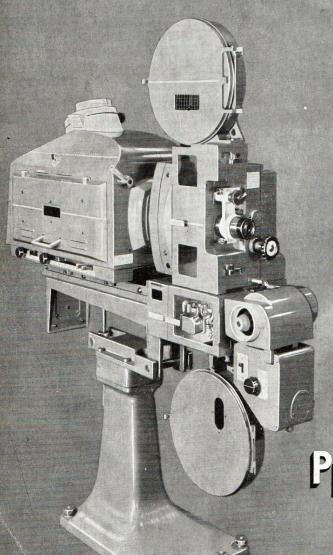
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MORTIMER HOUSE 37-41 MORTIMER ST., LONDON, W.1

Telephone: Museum 5432

Cables: GEBEKAY WESDO LONDON

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GK 18

PROJECTION & SOUND EQUIPMENT