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BEB/W.

4th May.....

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SPECIFICATION OF LIGHT CONSOLE.

FOR ALHAMBRA ODEON

STAGE LIGHTING INSTALLATION

T. G. Galator

For the purpose of this price, it is assumed that the stage will be equipped with 68 dimmer ways. There are eight special Re-actance Dips, and these are installed as a substitute for the orthodox Special Effects Terminals on either side of the stage, as it is obviously contrary to the nature of the Console that any additional portable switchboards shall be used. It is expected that on an average stage of this size these extra eight 10 k.w. dips will cope with any temporary lighting arrangements over and above the usual stage dip load.

In designing the Console, special attention has been paid to the fact that in a Cinema great publicity value lies in featuring this instrument. Therefore, provision has been made for certain apparatus which would not normally be required in the legitimate theatre, but which will be invaluable in the playing of lighting scenes, or the accompaniment of hot rythm etc.

In this description we are assuming that our brochure has been read and therefore the reader is familiar with the general nature and methods of operation of this apparatus.

The Console itself will be the same size as the console installed in the Strand Electric Demonstration Theatre

(4'8" wide x 3'10" high x 2'6" deep, the actual controls occupying a space 3'5" wide), and will contain two key-boards, each of thirty-six double touch coloured keys, and nine double touch black keys, These keys will give, reading from right to left, groups of four (one per colour):-

Full-on.	First Touch, Momentary. Second " Sustained.
Seventh Speed	First Touch, Raise. Second " Lower.
Sixth Speed	² First Touch, Raise Second " Lower
Fifth Speed	First Touch. Raise Second " Lower.
Fourth Speed	First Touch, Raise Second " Lower.
Third Speed.	First Touch, Raise Second " Lower.
Second Speed.	First Touch, Raise Second " Lower.
First Speed.	First Touch, Raise. Second " Lower.
Blackout	First Touch, Momentary. Second " Sustained.

There will be no pedal keyboard, although certain pedal pistons, and balanced pedals for sustaining actions on the keys are provided.

The stop key lay-out and general accessories are as under:-

STOP KEY SCHEDULE.

Stops of each Manual will be grouped in their colours, and will be fitted with second touch cancel so that on pressing any stop key to second touch, the remainder of the stops of that colour on that manual will spring to off.

MANUAL 1. (NOTTOM KEYBOA RD)

1.	Spotlight. Footlight	White.	
2.	"	Red.	
3.	"	Blue.	
4.	"	Green.	
5.	Footlight	White.	
6.	"	Red.	
7.	"	Blue.	
8.	"	Green.	
9.	No. 1. Batten	White.	
10.	"	Red.	
11.	"	Blue.	
12.	"	Green.	
13.	No. 2. Batten.	White.	
14.	"	Red.	
15.	"	Blue.	
16.	"	Green.	
17.	Cyc. Top.	Red.	1/2
18.	"	Blue.	1
19.	"	Green.	1
20.	Cyc. Pit.	Red.	4 or
21.	"	Blue.	8000
22.	"	Green.	4000
23.	Special Effects.P.	White.	
24.	" PROSCENUM	Red.	
25.	"	Blue.	
26.	"	Green.	
27.	" SPARE O.P.	White.	
28.	"	Red.	
29.	"	Blue.	

8000

30.	"	Green.
31.	Apare	White.
32.	"	Red.
33.	"	Blue.
34.	"	Green.

MANUAL 11

1.	Circle Spots.	White.
2.	"	Red.
3.	"	Blue.
4.	"	Green.
5.	Bridge Spots.	White.
6.	"	Red.
7.	"	Blue.
8.	"	Green.
9.	Acting Area. 1.	White.
10.	"	Red.
11.	Acting Area. 2.	Blue.
12.	"	Green.
13.	Acting Area. 3.	White.
14.	"	Red.
15.	Perch P1.	White.
16.	P2.	Red.
17.	Perch OP1.	Blue.
18.	" OP2.	Green.
19.	Stage plugs Down.	White.
20.	"	Red.
21.	"	Blue.
22.	"	Green.
23.	"	Centre.White.
24.	"	Red.
25.	"	Blue.

26.	"		Green.
27.	"	Up.	White.
28.	"		Red.
29.	"		Blue.
30.	"		Green.
31.	Späre		White.
32.	"		Red.
33.	"		Blue.
34.	"		Green.

ACCESSORIES.

Sustainers.	Manual 1.	White.
(To hold any key on		Red.
while fingers are removed)		Blue.
"	"	Green.
	Manual 11.	White.
	"	Red.
	"	Blue.
	"	Green.
Independant Dips P.		Onl
"	OP.	On.
Fly Plug	B.	On.
	OP.	On.
	OP.	On.
Batten 1. Pilots.		On.
" 2. "		On.
Cyc. Batten Pilots.		On.
Stage focals		Off.
Dead Black Out.		

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REMOTE COLOUR CHANGE CIRCLE SPOTS.

1.	A.	Amber.
2.		Red.
3.		Blue.
4.		Green.
5.	B.	Amber.
6.		Red.
7.		Blue.
8.		Green.
9.	C.	Amber.
10.		Red.
11.		Blue.
12.		Green.
13.	D.	Amber.
14.		Red.
15.		Blue.
16.		Green.

COUPLERS

Manual 1 to 11.

Manual 11 to 1.

THUMB PISTONS (PRESETS) Situated in keyslips under keyboards

Manual 1. Ten "Adjustable Combinations". Double Touch,
second touch operating same piston on Manual 11.
One "Circuits in Use" Combination Single Touch.
"One Cancel".

Manual 11 to 1 on and off Piston.

Manual 11. Ten "Adjustable Combinations" double Touch,
second touch operating same piston on Manual 1.
One "Circuits in Use" Combinations single touch.
"One Cancel".

Manual 1 to 11 on and off Piston.

SETTER PISTON. (with lock) All adjustable pistons
(Presets) may be set without leaving the
console seat, by means of a setter piston
in accordance with latest organ practice.

PEDALS.,
One Balanced Crescendo Pedal, bringing
on all "Downstage" circuits in succession.
One Balanced Crescendo Pedal bringing on
all "Up Stage" circuits in succession.
One Balanced Speed Pedal giving six main
speeds from which the manual keys will
take their range.

TOEPISTONS. Four Toe Pistons giving stop combinations
2 to each manual (Adjustable) from setter
piston).

Cancellous Off.

General Dim.

Dead Black Out.

Manual 1. Sustainers Off

Manual 2. Sustainers Off

Master Sustainers Off.

Spare pushes will be provided for signals, Auditorium
Decorative Lighting, Curtain controls, and Signal Buzzers.

Eight dials for Positions indication will be fitted.

Space will be left for controls in connection with
Loud Speaking Telephones from Console to stage Managers
Corner. Front of House Arc Spot Box.,

RELAYS.

From the Console a flexible cable will run
to Relay Bank in Dimmer room. (This room should be
situated in some position convenient to keep cost of

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high voltage wiring down to a minimum).

Relays will be mounted in easily accessible dust proof cupboard, adjacent to the Main Dimmer Bank and Contactor Panel.

ACTION

The action is all electric 15 volt and will be supplied from a suitable Motor Generator Set and starting battery, which will be started from the Console and supplied in this contract.

PRELIMINARY SPECIFICATION OF DIMMER BANK.

GENERAL FRAMEWORK

The dimmers will be mounted on an angle iron frame, and will be driven by a continuously revolving shaft. The shaft will be operated by an electric motor with a staddy. The dimmers will be connected by means of 15 volt D.C. pairs of magnetic clutches to drive in either direction (i.e. raise and lower). Dimmers will be of the "SUNSET" element type, which have proved the most successful for this type of work, and will be fitted with 100 contacts. Working in conjunction with the magnetic clutches to travel in different directions either at the same or different speeds. New type mercury limit switches will be provided to each end of travel of the clutch, as a safeguard. Each dimmer will be fitted with Potentiometer Resistance working in conjunction with the dimmer arm, on the 15 volt supply, to give indication, in conjunction with the instruments on the console, of the position of each dimmer. In addition to the dimmers there will be eight special timing switches, associated with the position controls (black notes).

SCHEDULE OF DIMMER LOADINGS.

These will be same as standard board already

quoted, with an addition of eight 10.k.w. Reactance units for special Effects.

CONNECTOR BOARD.

Inter-connected with the dimmer bank will be a Contactor Bank, carrying for each circuit a normally closed, magnetically opened contactor and a normally opened magnetically closed contactor. By this means circuits may be switched on irrespective of the position of the dimmer, or circuits may be blacked out, irrespective of the position of the dimmer. The operating coils for these contactors will be wound for 15 volt D.C. current.

MOTOR GENERATOR.

A motor Generator set will be supplied to give sufficient output 15 volts D.C. to meet with the requirements of the "action". A further small 50 volt Generator will also be provided, as part of the speed control.

GENERAL REMARKS.

The whole job will be balanced over 230 volts 3-phase. Circuit fuses and necessary low voltage protection will also be provided.

PRICE.

Including installation and supply of all apparatus as specification above, supply of low voltage wiring and high voltage internal wiring of dimmers and contactors, converter set and battery.....£2,100. 0. 0d. Nett.

This price compares with £629. 7. 6d. included in our original quotation No. TLD/LA/281, for standard and sub-main boards.

OPERATION.

Contract price includes for maintenance for one year after installation. Also the provision of fully

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qualified operator to work Console for rehearsals and for one month after inaugural performance. Special arrangements will be made for preliminary training of your operator (if considered suitable) on the Console already installed in our Demonstration Theatre, and subsequent instruction on the actual console when installed. Alternatively, we are prepared to put forward a suitable man. Furthermore, the services, of Mr. Bentham (the inventor) will be loaned from time to time for special performances, where it may be desired to feature the console in a lighting scene or solo.

The console is finished in polished oak or to suit decorations provided with organ bench and platform with rubber tyred castors and sufficient flex to allow it to be pushed into any number of convenient positions.