

Alcester Street, Redditch, Worcestershire, B98 8AE

MAIN THEATRE TECHNICAL SPECIFICATION

Updated 1st March 2022

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For email contacts, Google Street view and more information please see :

www.redditchpalacetheatre.co.uk



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1. STAGE DIMENSIONS

NOTE: Nails, tacks or staples are <u>NOT</u> to be used in the stage. The use of screws is accepted as long as they are fully removed after use. The painting of the stage is also <u>NOT</u> permitted.

Proscenium Stage, Raked; Pros Opening

Pros Height to Tabs

Depth of Stage

Extension over orchestra pit (removable by 5 individual sections)

Wing Widths SR

Wing Widths SL (Access to Scene Dock via SL wing)

Stage Width Wall to Wall (stage left to stage right)

6.7m (22').

3.8m (12'6")

1.60m (5'3")

2m (6'6").

1.52m (5')

14.2m (46'6")

The Stage has a rake of 25 mm in 1m (1 in 40)

Width of Scene dock doors

2.86m (7'6")

Height of Scene dock doors

5.46m (17'11")

2. LOADING ACCESS

Please note that there is an ANPR camera in car park on arrival please ensure that you give car/van registration to the technical staff on duty.

Main vehicle load in is in the Palace Theatre car park GPS location 52.305718,-1.93785 (see plan section 10) get in doors through scene doc stage left: Width: 1.5m (4'9") Height: 3.124m (10'2") Additional load in via Stage Right. (restricted access) Width: 2.16m (7'1") Height: 3.25m (10'8")

3. STAGE SUSPENSION

Height of Grid: 11.9m (38'6") Max. Scenery / Cloth Height: 5.5m (18')
Maximum uniform loading of Grid (Standard lx is weight is 343Kg): 1.6 Ton
16 x Hemp Lines. Max 70 Kg per bar (No counter weights) Width: 9.2m (30')
3 x 10 circuit lighting bars with a Max loading of: 250 Kg

Main Tabs on Counter Weight

1 x Truss bar at the rear of the stage with a Max loading of: 200Kg.

4. ACCOMMODATION Numbers in brackets relate to people per area (see note 2)

4.1 Ground floor Dressing Room Block (20)

Dressing Room 1 (3)
Dressing Room 2 (2) with single Basin
Dressing Room 4 (5) with two Basins

1 x Disable toilet and shower combined

1 x Laundry Room / Kitchen with Auto Washer, Dryer, Steam Iron, Ironing Board, tea and coffee making facilities with instant boiled water and filtered cold water machine

4.2 First floor (40)

Dressing Room 5 (5) with single Basin Dressing Room 7 (15) with two Basins

Dressing Room 6 (12) with two Basins 2 x Toilets

Gents Showers (2 cubicles) (2) Ladies Showers (2 cubicles) (2)

All dressing rooms have central heating, show relay and back stage call system.

4.3 Orchestra pit (16)

14 x Lit music stands
1 x Lit conductors stand
14 x Red folding chairs
1 x Portable Digital Piano

4.4 Second Floor (front of house)

Studio (70)

4.5. Stage (120)

PLEASE NOTE:

- 1. We do not have the facilities or staff to provide hot food or sandwiches.
- 2. Numbers provided for people per area is a maximum guide of adults for each area and must be reduced accordingly when set / props/ costume are stored or used in that area.
- 3. THE ENTIRE BUILDING IS A NO SMOKING ZONE.



5. STAGE LIGHTING

Lighting desk: ETC ION XE20

Artnet runs from Dimmer room to control room & Rear Stalls

Dimmers: Strand Permus. 90 Circuits. 2.5K (10 amps) per channel.

House Lighting:Stand-alone system with four pre-set levels between full up and black with a full fade time of 11 seconds. Also controlled by Universe 1 DMX channel 1.

3 x 7.15m IWB (On stage) 250 Kg each hand winch.

DMX points: DSR, DSL, CSL, CSR, USL, USR, Orchestra Pit, LX 1, LX2, LX 3, front of

Circle bar, FOH Booms & FOH Bar

Lanterns used for the Standard Rig and are NOT moved re focused:

4 x ETC Source 4 Lustr+ with Cyc Wash
4 x ProLights Eclipse FC 19 deg. Profile
4 x ProLights Eclipse Fresnel TW
4 x Prolights Studio COB FC
2 x Prolights Studio COB UV
LEDj Slimline 7Q5

Lanterns used for the Standard Rig that are re focused as required per performance:

4 x ProLights Eclipse FC 15 to 30 deg. profile

10 x 26 Deg ETC Source 4 Lustr+

8 x Prolights Luma 700
2 x Prolights Diamond 7
2 x Prolights Studio COB FC

Additional Lanterns Available:

4 x 1.2k Cantata Fresnel with barn doors

2 x 1.2k Cantata 11/26 2 x 1.2k Cantata 18/32 6 x 575w Source 4 50° 7 x 650w Prelude 16/30

6 x 1k Parcans P64 CP62 Lamp

6 x 1k Floor Cans P64 CP62 Lamp (Chrome)

10 x Birdies GU10 type 10 x LEDj Slimline 7Q5

Accessories

2 x Iris to fit Cantata & Prelude

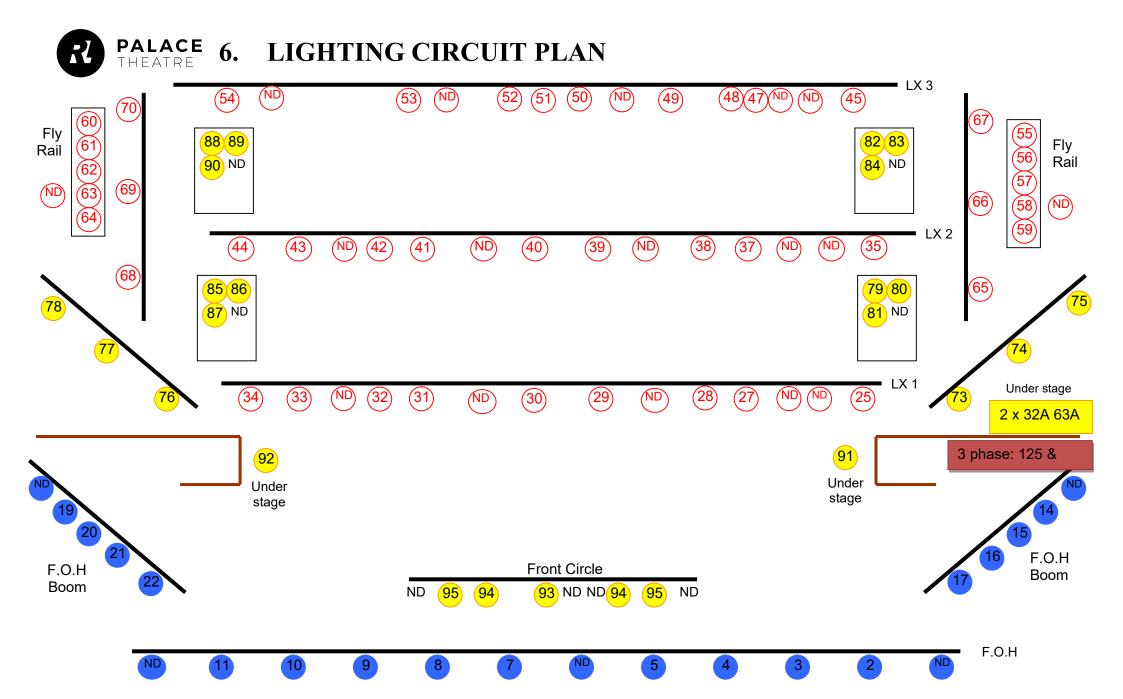
Iris to Fit Source 4's & Pro Light Eclipse

6 x B Size Gobo holders (GH06) 6 x A Size Gobo holders (GH40)

Follow spots

2 x Spotlight LED250 RGBW DMX

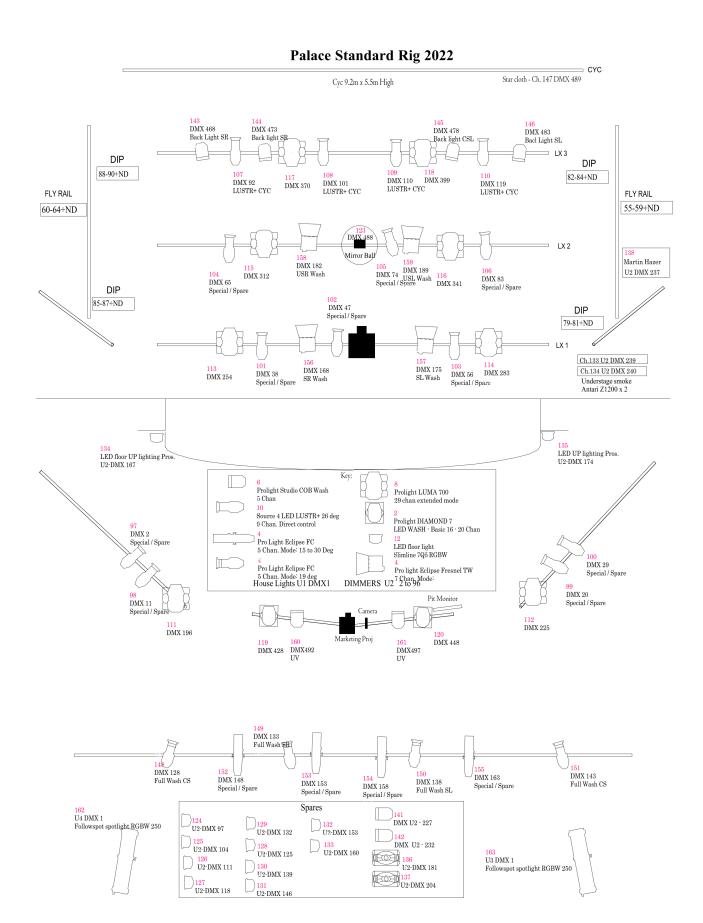
(Complete with Sights)



Spare circuits: 23,24,71,72



7. STANDARD LIGHTING RIG & FIXTURE LIST



NOTE: NO standard hanging lighting can be physically moved from its position

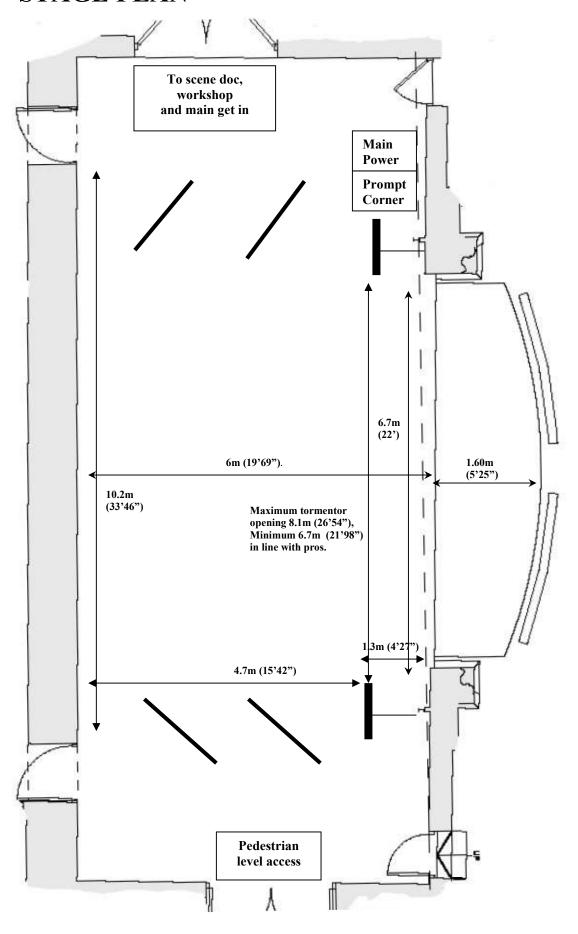
Fixture Description (Universe 1 - Universe 2)	Chan	DMX Chan.	Focus / location	Re focused?
Source 4 LED LUSTR+ 26 deg-9 Chan. Direct control	97	DMX 2	FOH Boom Spare	Yes



Source 4 LED LUSTR+ 26 deg-9 Chan. Direct control Source 4 LED LUSTR+ 26 deg-9 Chan. Direct control Source 4 LED LUSTR+ 26 deg-9 Chan. Direct control Source 4 LED LUSTR+ 26 deg-9 Chan. Direct control	98	DMX 11 DMX 20	FOH Boom Spare FOH Boom Spare	Yes
Source 4 LED LUSTR+ 26 deg-9 Chan. Direct control		DIVIX 20	I FOH Boom Spare	
		D141/ 20		Yes
Source 4 LED LUSTR+ 26 deg-9 Chan. Direct control	100	DMX 29	FOH Boom Spare	Yes
The state of the s	101	DMX 38	LX1 Spare	Yes
Source 4 LED LUSTR+ 26 deg-9 Chan. Direct control	102	DMX 47	LX1 Spare	Yes
Source 4 LED LUSTR+ 26 deg-9 Chan. Direct control	103	DMX 56	LX1 Spare	Yes
Source 4 LED LUSTR+ 26 deg-9 Chan. Direct control	104	DMX 65	LX2 Spare	Yes
Source 4 LED LUSTR+ 26 deg-9 Chan. Direct control	105	DMX 74	LX2 Spare	Yes
Source 4 LED LUSTR+ 26 deg-9 Chan. Direct control	106	DMX 83	LX2 Spare	Yes
Source 4 LED LUSTR+ CYC -9 Chan. Direct control	107	DMX 92	LUSTR+ CYC	No
Source 4 LED LUSTR+ CYC -9 Chan. Direct control	108	DMX 101	LUSTR+ CYC	No
Source 4 LED LUSTR+ CYC -9 Chan. Direct control	109	DMX 110	LUSTR+ CYC	No
Source 4 LED LUSTR+ CYC -9 Chan. Direct control	110	DMX 119	LUSTR+ CYC	No
prolights luma 700 29 chan. Extended mode	111	DMX 196	FOH Boom Spare	Yes
prolights luma 700 29 chan. Extended mode	112	DMX 225	FOH Boom Spare	Yes
prolights luma 700 29 chan. Extended mode	113	DMX 254	LX1 Mover	Yes
prolights luma 700 29 chan. Extended mode	114	DMX 283	LX1 Mover	Yes
prolights luma 700 29 chan. Extended mode	115	DMX 312	LX2 Mover	Yes
prolights luma 700 29 chan. Extended mode	116	DMX 341	LX2 Mover	Yes
prolights luma 700 29 chan. Extended mode	117	DMX 370	LX3 Mover	Yes
prolights luma 700 29 chan. Extended mode	118	DMX 399	LX3 Mover	Yes
Prolight DIAMOND 7-LED WASH - Basic 16 - 20 Chan	119	DMX 428	Front Circle Wash	Yes
Prolight DIAMOND 7-LED WASH - Basic 16 - 20 Chan	120	DMX 448	Front Circle Wash	Yes
Slimline 7 x 5W RGBW LED PAR Can	124	U2-DMX 97	LED floor spare	Yes
Slimline 7 x 5W RGBW LED PAR Can	125	U2-DMX 104	LED floor spare	Yes
Slimline 7 x 5W RGBW LED PAR Can	126	U2-DMX 111	LED floor spare	Yes
Slimline 7 x 5W RGBW LED PAR Can	127	U2-DMX 118	LED floor spare	Yes
Slimline 7 x 5W RGBW LED PAR Can	128	U2-DMX 125	LED floor spare	Yes
Slimline 7 x 5W RGBW LED PAR Can	129	U2-DMX 132	LED floor spare	Yes
Slimline 7 x 5W RGBW LED PAR Can	130	U2-DMX 139	LED floor spare	Yes
Slimline 7 x 5W RGBW LED PAR Can	131	U2-DMX 146	LED floor spare	Yes
Slimline 7 x 5W RGBW LED PAR Can	132	U2-DMX 153	LED floor spare	Yes
Slimline 7 x 5W RGBW LED PAR Can	133	U2-DMX 160	LED floor spare	Yes
Slimline 7 x 5W RGBW LED PAR Can	134	U2-DMX 167	Pros Up light	No
Slimline 7 x 5W RGBW LED PAR Can	135	U2-DMX 174	Pros Up light	No
China LED moving head wash	136	U2-DMX 181	Spare	Yes
China LED moving head wash	137	U2-DMX 204	Spare	Yes
PROLIGHTS StudioCob	141	DMX U2 - 227	Spare	Yes
PROLIGHTS StudioCob	142	DMX U2 - 232	Spare	Yes
PROLIGHTS StudioCob	143	DMX 468	Back light SR	No
PROLIGHTS StudioCob	144	DMX 473	Back light CSR	No
PROLIGHTS StudioCob	145	DMX 478	Back light CSL	No
PROLIGHTS StudioCob	146	DMX 483	Back light SL	No
Pro Light Eclipse FC-5 Chan. Mode: 19 deg	148	DMX 128	Full Wash CS	No
Pro Light Eclipse FC-5 Chan. Mode: 19 deg	149	DMX 133	Full Wash SR	No
Pro Light Eclipse FC-5 Chan. Mode: 19 deg	150	DMX 138	Full Wash SL	No
Pro Light Eclipse FC-5 Chan. Mode: 19 deg	151	DMX 143	Full Wash CS	No
Pro Light Eclipse FC-5 Chan. Mode: 15 to 30 Deg	152	DMX 148	FOH Spare	Yes
Pro Light Eclipse FC-5 Chan. Mode: 15 to 30 Deg	153	DMX 153	FOH Spare	Yes
Pro Light Eclipse FC-5 Chan. Mode: 15 to 30 Deg	154	DMX 158	FOH Spare	Yes
Pro Light Eclipse FC-5 Chan. Mode: 15 to 30 Deg	155	DMX 163	FOH Spare	Yes
Pro light Eclipse Fresnel TW-7 Chan. Mode	156	DMX 168	SR Wash	No
Pro light Eclipse Fresnel TW-7 Chan. Mode	157	DMX 175	SL Wash	No
Pro light Eclipse Fresnel TW-7 Chan. Mode	158	DMX 182	USR Wash	No
Pro light Eclipse Fresnel TW-7 Chan. Mode	159	DMX 189	USL Wash	No
PROLIGHTS StudioCob UV	160	DMX492	UV	No
PROLIGHTS StudioCob UV	161	DMX497	UV	No
Follow spot spotlight RGBW 250R	162	U4 DMX 1	Follow Spot	Yes
Follow spot spotlight RGBW 250R	163	U3 DMX 1	Follow Spot	Yes



8. STAGE PLAN





9. HANGING PLOT & GRID PLAN

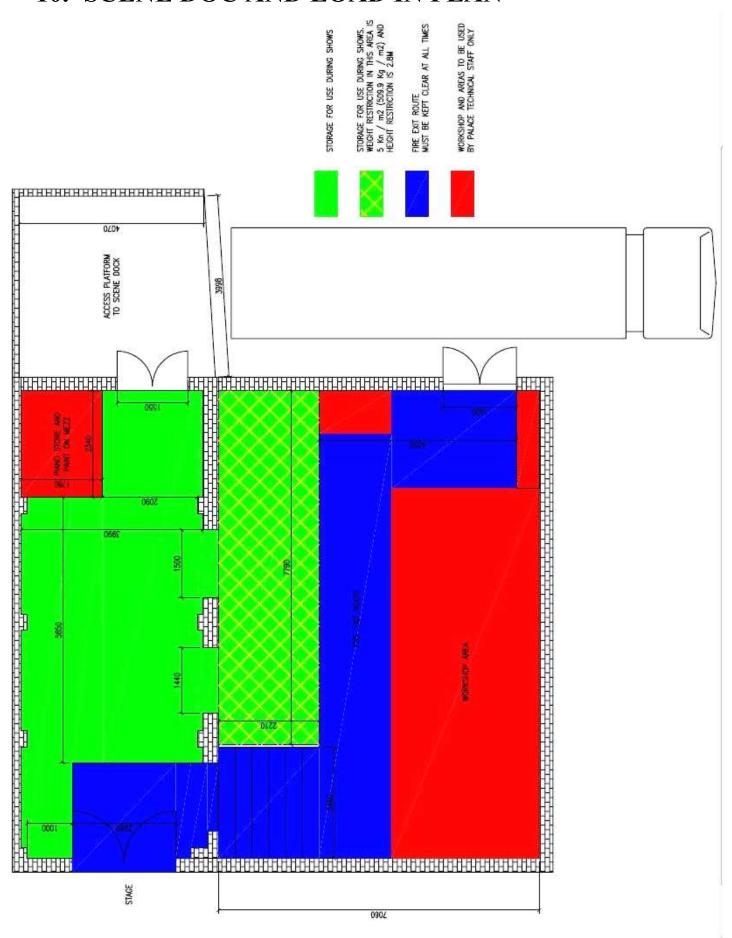
Default Hanging Plot

Note: Measurements in mm. Scale 1:25

and the same of the same of	ner to a complete of the control of	Cyclorama			
From Cyc	Bar No. Cloth No.	Cloth Description		From Pos	Rul
0	Op 17	Star Cloth	Op 17	6040 -	=
200	16	Black Legs for Masking screen	16	5840 -	_[
340	15		15	5700 -	_E
490	14		14	5580 -	-6
760	13		13	5280 -	-₹
1220	12		12	4820 -	-
1520	LX3		LX3	4520 -	-
1960	11	Black Border	11	4080 -	_
2110	10		10	3930 -	_ [
2270	9		9	3670 -	_F
	8A		8A		F
2580	8		8	3460 -	-
3220	LX2		LX2	2820	
		Black Border			_ ‡
3370	,	Didd Dodd		2070	
3640	6		6	2400 -	-₽
3790	5		5	2250 -	-
4060	4		4	1980 -	-
4210	3		3	1830 -	_E
	2		2	1680	_ f
4360	2		-		
	1		1	1540 -	_
4360	0 1000 30	Black Border		1540 -	-
	340 490 760 1220 1520 1960 2110 2270 2580 3220 3370 3640 3790	340 15 490 14 760 13 1220 12 1520 LX3 1960 11 2110 10 2270 9 8A 2580 8 3220 LX2 3370 7 3640 6 3790 5	340 15 490 14 760 13 1220 12 1520 LX3 1960 11 Black Border 2110 10 2270 9 8A 2580 8 3220 LX2 3370 7 Black Border 3640 6 3790 5	340 15 15 15 16 17 18 19 19 19 19 19 19 19	15 15 16 17 18 18 19 19 19 19 19 19



10. SCENE DOC AND LOAD IN PLAN





11. SOUND

11.1 Auditorium Sound Reinforcement:

2 x Circle - d&b audiotechnik - 24s - D Loudspeakers 2 x Stalls - d&b audiotechnik - 24s - D Loudspeakers

Above powered and configured from 1 x d&b audiotechnik – 30 D Amplifier

2 x Sub Martin Audio S18's (Both in Orchestra pit)

2 x Sub Martin Audio ICTS (Box A & Box B) flooding circle. Above powered and configured from 1 x d&b audiotechnik – 40 D Amplifier

2 x Martin Audio AQ5's Rear Circle Surround sound

2 x ICT300's stalls Surround sound

2 x Martin Audio AQ 10's 300 watt RMS speakers (Permanent side fills on stage) 8 x Channels of fold back via Martin Audio 4 x F10 & 1 x F12 full range cabinets

NOTE: All amplifiers and system controllers are permanently wired and installed and can not be altered. The system has been analysed and set up for the acoustics of the auditorium.

11.2 Main Mix Position (located at the rear of the Circle):

1 x Yamaha M7CL sound desk. Note Main mix from AES EBU output

Permanent Patch to desk:

1 CI III ai	ient i uten to desk.		
M7 Input	Where from:	Omni Out	Where to:
1 to 10	Stage left box XLR's in	1 to 8	Stage fold back amps (Power Patch in Tech store)
11 & 12	Stage left box Jack in	9-12	IEM Sends Stage Right
13 to 24	Stage right box XLR's in	14	Building Audio
25 to 32	Orchestra Pit XLR's in	15-16	Surround L&R
33 to 36	Satellite box inputs (37 to 40 spare @ M7)		
37 to 48	Radio Microphones 1 to 12		
Stereo 1	CD player / DVD player		
Stereo 2	Mini Disk]	
Stereo 3	Media Player		
Stereo 4	Computer L & R (Rear, Sub & Centre spare @ M7)		

1 x Behringer Composer (permanently set for surround sound)

2 x Alesis M-EQ 230 30 Band Graphic Equalizer (permanently set for surround sound)

1 x Audio Media player. Plays direct from USB memory sticks & card readers.

1 x PC dedicated to Audio and video play back.

1 x DVD / CD player

11.3 Loose Equipment:

3 x EV Pl 88l Microphon	es
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6 x	Shure SM 58 Microphones	5 x	EMO Single DI Box
4 x	Shure SM 57 Microphones	1 x	EMO Dual DI Box

2 x Sennheiser K3-V Shot Rifle Microphones 2 x Calrec CB 21c Microphones

2 x Crown PCC 160 PZM Microphones - Permanently mounted SL & SR on pros

10 x Sennheiser EW 300 G3 Radio Microphone lapel/headset or 5 x hand held

3 x Sennheiser E604 DRUM MICS

Notes: All Sennheiser G3 hand held and lavalier <u>CAN NOT</u> be used at the same time as they share the same receivers. But they can be used in any configuration (IE 3 X Hand Held & 3 Levieila)

11.4 Show Relay and Communications:

The Theatre has full show relay to all dressing rooms with paging system via prompt corner & Control Room

The fronts of house calls are done from the control room or Stage by the technician on duty.

There are communication head sets at lighting, Control room mix position, main mix position, follow spot 1 & 2, prompt corner, opposite prompt and fly floor and an additional 4 radio headsets



12. MULTI MEDIA

- 1 x Video projector on Front of circle LX Bar for marketing only
- 1 x 5000 lm projector on LX1 to hit the cyclorama
- 1 x DVD player located in sound position
- 1 x VGA Lead for Power Point presentations located in prompt corner and control room
- 1 x Colour Camera on front of circle LX Bar for video relay to wings
- 1 x Black and White Camera in Pit also links to video relay system including monitor on front circle
- 5 x TV'S (Stage Left, Stage Right & Fly floor), 1 for viewing pit and 1 for Stage each side and just stage on the fly floor..

For projection from the front circle, the distance to the cyclorama is 12 meters and 11 centimetres

Projection Distances:

Front circle to Fly Bar 1: 7.4m Front circle to cyc: 11.9m Lx Bar 1 to cyc: 5.3m

13. POWER INFORMATION

- 7 x Independents switched from prompt corner. Positioned CSL, CSR, USL, USR, Fly floor, Op fly floor, Front Of Circle Lighting Bar
 - 2 x Double 13 amp sockets stage left
 - 1 x Double 13 amp socket stage right

The following are located stage left, under the stage:

- 2 x 32 Amp CEE form Sockets (yellow phase) each protected by 30mA RCD
- 1 x 63 Amp CEE form Socket (yellow phase) protected by 63 Amp MCCB
- 1 x 63 Amp 3 phase CEE form socket protected by 30 mA RCD
- 1 x 125 Amp 3 phase CEE form Socket protected by 100 Amp / 300 mA RCD

Connections to these supplies will only be permitted once Evidence of a current Electrical Safety is proven. Connection to these supplies will be made by Palace Technical staff only.

14. MISCELLANEOUS EQUIPMENT

Curtains: 1 x Main House Tabs Red

1 x Full Black Back Cloth

1 x White Gauze 1 x Black Gauze 1 x Set of Blue Tabs

1 x Grey Tabs with border & legs

1 x Red Tabs

Staging: 5 x 2m x 1m Metro deck sections

24 x 440 mm (17.32 inch's) Legs for Metro deck sections 12 x 660 mm (25.98 inch's) Legs for Metro deck sections 24 x 1500 mm (59 inch's) Legs for Metro deck sections 14 x Red interlocking armless Chairs in Orchestra Pit

1 x Tab Track

Right perch)

1 x Antari Z1200 smoke machine permanently installed under stage smoke system (can be controlled via DMX or stand alone from prompt corner)

1 x Martin Magnum Hz 2500 (can be controlled via DMX & permanently installed Stage

1 x Le Maitre Pyrotechnic Firer 6 – 24 permanently installed in prompt desk and hard wired to 9 locations on the stage, DSL, DSCL, DSC, DSCR, DSR, CSL, CSCL, CSCR, CSR.

1 x Steinway Baby Grand (On Stage)

1 x Fibre-optic Star Cloth, full width

Certain items in this document are subject to a hire charge. Please see Palace Theatre Website for current fees and charges.



15. FIRE EXIT ROUTE CAPACITIES

Dressing Room Block fire exit to car park Pedestrian Level Access Stage Right 100 Stage door on Alcester street 40

Notes:

All equipment on this specification is subject to availability. Please check with the technical department if you require any specific items listed on this document. We reserve the right to substitute any equipment without prior notice.

The Production / Hiring company staff are the responsibility of the Production / Hiring company and must be provided will all relevant PPE and safe working processes (i.e. relevant ear protection, safety shoes, risk assessments / method statements where applicable).

Please be aware that the orchestra pit will not be allowed to be used when a get in is in progress as this can affect the safety of everyone involved.

The stage can not be re painted for your production. You are welcome to put down suitable flooring such as dance floor. The flooring may only be taped, not stapled.

All electrical equipment brought into the venue by the visiting company must comply with the Current *Wiring Regulations*, and must come with a valid and current electrical safety test certificate even if it is hired from a third party.

All rigging equipment must comply with the *Lifting Operations and Lifting Equipment Regulations* and must come supplied with a valid and current test certificate even if it is hired from a third party.

The Palace Theatre and its employees have the right to refuse to use any equipment that they think is unsafe or unsuitable for the task intended. WE RESERVE THE RIGHT TO CANCEL ANY PRODUCTION IF WE FEEL IT DOES NOT COMPLY WITH OUR HEALTH AND SAFETY CONDITIONS

We are not able to pre-rig unless agreed in advance and by contract with The Palace Theatre and the visiting company.

The Technical Department must receive all technical requirements in the form of a rider at least five weeks prior to the event. This must include, as a minimum, get-in schedule, staff requirements, equipment requirements, lighting and ground plans, risk assessment and special effect license requirements (where required).

Please note all information contained in this document is subject to alteration. E & O E



16. DRESSING ROOM AND BACK STAGE PLAN

