

Palace Theatre Newark Technical Department

**All tech-related correspondence should go through
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Technical details

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Stage Dimensions

Proscenium width	8.44metres
Proscenium Height	6.68metres
Stage right wing width	3.70metres
Stage Left wing Width	4.98metres
Underside of Grid	15.50metres
Underside of Fly Floors	6.70metres
Dock Door width	1.5metres
Dock Door Height	2.66metres
General trim height	6 metres
Setting line to rear of circle (control and follow spots)	30metres
Touring multicore run (mid auditorium)	30 metres

****Dock Door is at street level and slightly ramps onto stage surface upstage right (290mm)****

Dressing Rooms

- 6 (Six) Dressing rooms situated directly under the stage accessed via two staircases upstage left and upstage right.
- The dressing rooms accommodate 60 persons comfortably.
- 4 have sinks with hot water, all have mirrors, chairs and surfaces.
- Paging system and show relay
- Dressing rooms 1 and 4 have an en-suite toilet facility.
- All other dressing rooms have access to communal toilet and shower facilities in dressing room corridor.

Band room

A small dedicated band room adjacent to the orchestra pit for musicians

Technical staff room

A dedicated crew room for resident and touring staff with tea/coffee making facilities, toaster and microwave

Production Office.

There is no dedicated touring production office so any production facilities need to be run from a dressing room. There is Wi fi throughout the stage and backstage area's

Wardrobe

There is a domestic washing machine and drier within dressing room number four

Note* Due to fire regulations we are limited to 100 persons backstage

Piano's

1 Broad-wood upright (Orchestra Pit)
1 Allison Boudoir Grand (Stage)

Orchestra pit

A removable forestage to form an Orchestra pit to accommodate up to 16 musicians. The forestage is made up of 9 (Nine) removable modular sections each 2750mm x 800mm wide. The orchestra pit floor is 1900mm below the stage surface when top removed.

Stage

Surface

Flat, no rake. Satin Black 25mm marine ply. (We do allow things to be screwed ***within reason***)
Permanent step access to Left and Right sides of the Auditorium of the front edges.

Equipment

24	3 line hemp flying bars each 8.90metres long on 48 mm tube (SWL 160KG)	
	(These can be extended by up to 70cm each end if necessary for cloth/border extensions)	
4	Hand winched lighting bars 10.3 metres long on 48mm tube (SWL 500KG)	
1	Cotton White Cyclorama	10.3m x 6m
2	Red Bolton twill backdrops	8.9m x 6m
5	Black Surge Borders	10.3m long
1	Black surge backcloth	10.3m x 6m
12	Black surge masking flats	various Approx. (6000mm x2000mm)
4	black surge legs	3m x 6mm
8	7 metre x 1metre Red	Trevera gathered Legs
8	7 metre x 1 metre Blue	Trevera gathered Legs
8	7 metre x 1 metre White	Trevera Legs
3	Pieces of 1220mm x 2440mm	Steel deck Rostra (1ft legs or 2ft legs)
4	pieces of 1000m x 2000mm	Stage-dex (1ft or 2ft legs)
17	Stage weights	
17	Stage Braces	Various lengths

Large stock of flying hardware, to include tested wires, round slings, hanging clamps, shackles as well as scenery flying hardware.

House tabs are hand winched draw tabs operated from stage right

Prompt Corner.

- Prompt corner is on stage right side and fixed.
- Tech pro headset.
- Telephone to all office spaces and control room
- Manual house-light control (if required)
- 5 switched non-dims. DSL, MSL, USR, DSR.
- Pit cue light
- Safety curtain release
- House light Panic
- Paging system to bars and dressing rooms,
- 2 video feeds from centre front and offside close up. Front feed is sent also to fly-floor.

No cue light system.

Power supplies

Stage Dimmers	300amp three Phase
Touring Stage Right	125/ 63 amp Three Phase
Touring supply Stage Left	125amp Three Phase
Touring supply Stage Left (Sound)	63/32/16amp Single Phase
20	16amp sockets at stage level distributed
20	13amp sockets at stage level distributed
54	16amp sockets on stage left Fly Floor distributed
4	16amp sockets on rear wall of Fly Floor catwalk.

Sound

Desks

1	Midas Pro3 (48in/16out)
1	Midas M32R (16in/8out)

Amplifiers

2 Quad x MC2	AQ10	(Main Hangs)
2 Stereo x MC2	E25	(Box Infills)
1 Stereo x MC2	E25	(Front fills)
6 Stereo x QSC	RMX1450	(Monitors)

Speakers

Main system is;	
-EM Acoustics	Halo C line array (7 boxes) with a single Ems118 Subwoofer per side.
-Front fills (6) and box fills (8) are	Ems 51 dedicated infills
-Delays are	Ems126 (2)

Monitors

4	Martin	Blackline F12
4	Turbo sound	MXD 12" Wedges
2	Turbo sound	TCS 30

Playback

2	Sony	Professional Cd Players
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1	Tascam	MD-350 Minidisk Player
1	Denon	DN-C630 CD Player
1	Tascam	CD-RW900 Recorder

Microphones

3	Sennheiser	ME-80/K3U Condensers
1	AKG	300B/CK 91 Condenser's
1	AKG	TG 157c Clip on
4	Shure	Beta-57A
4	Shure	Sm-57
6	Shure	Sm-58
1	Shure Beta 52	Bass microphone
2	Shure Beta 87a	Condensor vocal microphone
1	Shure	Beta 91 bass microphone
1	Audio Technica	ATM-25
4	Sennheiser	E-604 Drum Microphones
2	Sennheiser	e606 cardioid microphones
1	Beyer	Opus-83 condenser instrument Microphones
5	Beyer	MPC65 boundary microphones
4	sE 1a	Condenser microphones
2	sE X1	Large diaphragm condenser
1	Focusrite interface	

Stands and Cables

- Large assorted selection of cables and adapters
- Large quantity of 2 core Speakon Speaker cables
- 13 Boom stands Short
- 19 Booms Stands Tall
- 4 Table stands
- 3 8 way Stage Boxes
- 8 BSS Direct injection Boxes

Lighting

Desk

-Avolites Sapphire Touch and Touch Wing situated in control room at rear of circle

Dimmers

108 ways of ADB Euro rack (3kw per channel) on 300amp three phase main.

Lighting positions

- | | |
|---|---|
| 4 | Permanent winched bars on-stage (400kg) |
| 2 | Bridges front of house ceiling (situated at 45degree's and 55 degree's to the setting line face on) |

Note: These bridges are limited to 8 lamps each and we have no centre hanging point.

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|---|---|
| 2 | Fixed proscenium ladders (behind) running from stage level to underside of fly floor (6.5metre) |
| 2 | Front of house slip positions @ 7metre's running from pros wall to rear bridge position. |

2 Fixed proscenium ladders (in-front) running from stage level to 6metres

Lighting stock

9	CCT Starlette	Fresnel's	1000w	
11	Selecon high performance	Fresnel's	1200w	
8	Source Four	Fresnel's	HPL750	
2	Cantata	Fresnel's	1000w	
8	Source 4 19 deg	Profiles	HPL750	(FOH)
12	Source 4 26 deg	Profiles	HPL750	(FOH)
8	Source 4 15-30	Profiles	HPL750	(FOH)
7	Source 4 25-50	Profiles	HPL 750	
4	Source 4 36 deg	Profiles	HPL750	
4	Source 4 70 deg	Profiles	HPL 750	
4	Source 4 50 deg	Profiles	HPL 750	
12	Source 4 Junior Zoom	Profiles	HPL 575w	
2	Source 4	Parnels	HPL750w	
6	CCT Starlette	Floods	1000w	
5	3 cell Selecon	Hui Cyc Battens	500w	
48	Source 4	Par64 62/61/60/95	HPL575	
34	Par64/62, (Other angles available in limited quantity)		1000w	
10	Par64	Floor Cans	1000w	

Led/Intelligent

40	Chauvet LED	Colorado Tri-Tour Pars	
12	Chauvet LED	Birdies	
6	City Theatrical Autoyokes	Profiles	
8	Varilite VL2000		
8	Source Four Colour Source	Led Profiles	50degree

Follow spots

2 ROBERT JULIAT TOPAZE MSD1200W
(In Control room at rear of circle on centre)

Accessories

Note: Colour stock is a mix of both Lee and Rosco Super gel

8	2 metre tubular booms on tank traps	
6	3 metre ladders (hung from underside of fly floor and moveable)	
2	6 way IWB (on Socapex)	
8	floor stands	
2	Smarty bases	
	Quantity of Grelcos/Trelcos (48+)	
	Quantity of Socapex and spiders	(Ask for current cable inventory)
	Quantity of 15 amp cable	(Ask for current cable inventory)
	Quantity of 13 amp cable	(Ask for current cable inventory)
	Quantity of assorted Mains adaptors	(Ask for current cable inventory)
	Quantity of Dmx cable	(Ask for current cable inventory)
	Quantity of Scroller cable	(Ask for current cable inventory)
	Quantity of Power-con	(Ask for current cable inventory)
1	12 way	Scroller power supply
1	8 way	Scroller power supply
1	6 way	Scroller power supply
14	Source 4	Iris'

2	Source 4 Junior	Iris'
18	Source 4	Gobo holders
10	Source 4 Junior	Gobo holders
3	Source 4	Glass gobo holder
2	Source 4	Donuts
2	Source Junior	Donuts
8	Source 4 full	Top hats to fit Zooms or Source Four Pars
28	Source 4 full	Top hats to fit Fixed angle or Juniors
4	Source 4 short	Top hats to fit Zooms or Source Four Pars
4	Source 4 Half	Top hats to fit Zooms or Source Four Pars
8	Par64 full	Top hats.

Dmx Distribution

Main System is 2x 8way splitters and fed from 2 universes from both control room and front of house sound position in stalls is feeding:

-House dimmers/Led	(Universe 1)
-Intelligent equipment	(Universe 2)

Additional splitters/outlets

6 x 4 ways stage left fly floor rear	
1 x 4 way upstage right fly floor rear	(universe 1)
2 x 8 ways front of house roof space	(universe1 and 2)
2 x 8 ways mid stage left at stage level	(universe1 and 2)
1 x way down stage left proscenium wall	(universe 2)
1 x way down stage right proscenium wall	(universe 2)
1 x way at each boom/ladder position stage left and right.	(universe 2)

Video

- 1x 17" screens on fly floor with front centre feed.
- 1x 17" screen in prompt corner with front centre feed.
- 1x 17" screen in prompt corner with close up feed on stage or conductor.
- 1 black and white low light level camera for close up on stage (can be moved)
- 1 colour camera, (front centre on circle rail)

Parking

Access to the building, stage door and dock door is situated down the left hand side of the building.

There is parking and space for 1x45ft trailer and up to 4 cars at any one time. Any additional trailers have to be parked or stored off site. The nearest truck park is situated approximately 1 mile away at the cattle market near to the castle and the castle railway station.

Drawings/Addition Information

- 1 Ground plan
- 1 Stage/Auditorium Elevation
- 1 Dock Door Detail Plan
- 1 Dock Door front Elevation
- 1 Dock Door side Elevation
- 1 Fly Bar measurements.

END OF DOCUMENT UPDATED Mar 2020