



THEATRE
Technical Specifications

Updated 23/05/2022
V12.0

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GENERAL

LOCATION

- 20 Carlisle St, St Kilda. (cnr Barkly St and Carlisle St)
- Approximately 5Km from the Melbourne CBD, 150m from St Kilda foreshore, Luna Park and the Palais Theatre and 2mins away from a wealth of fine dining in Acland St.

PUBLIC TRANSPORT

- Light rail No 96 from Bourke St to Acland St
- Tram No 16 from Swanston St to Acland St
- Bus No 246 down Hoddle St and Punt Rd stopping outside the theatre.
- Also buses from Chadstone, Brighton and Southland.
- Trains leave from Balaclava station to Melbourne City CBD.
- Exceptionally good location for hailing taxis and ride shares.



AUDITORIUM

Auditorium steeply raked.
Good sightlines throughout, divided by audience crossover between eighth and ninth row at entrance level.

264 Front area - lounge armchairs
519 Rear area - tip up seats

TOTAL CAPACITY

783 patrons

FOYER office

- Main entrance - corner position, 148 sq meters with Box office
- Candy Bar and toilets on ground floor.
- Marble staircase leads to the Mezzanine Foyer of 1100 sq ft with access to the theatre.
- A large enclosed merchandising area/display area or closed off work area.
- Twin stairs lead to upper foyer of 1300 sq ft with licensed bar and toilets.
- Disabled access to the theatre available.



DRESSING ROOMS

Located directly behind the stage

- 2 240 sq ft
- 1 200 sq ft
- 1 65 sq ft
- 1 Diana Gibson Room

- 600 sq ft (warm up / holding space)

Toilets and shower

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LAUNDRY

Located in Dressing Room 1
Euromaid 7kg Washing Machine
Euromaid 6kg Condenser Dryer

LOADING DOCK

Goods Lift - 4000mm (deep) x 2800mm (wide) x 2800mm (high)
3 Tonne Capacity
60 second travel time
Doorway to stage – 1565mm (wide) x 4000mm (high)
5 steps up to stage (Ramps available)

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STAGE

STAGE DIMENSIONS (US edge of Pros Arch/DS edge of fire curtain)

Stage area 11.015m (D) x 13.730m (W)
(36.14ft x 45.05ft)

***Depth is the upstage limit of the usable stage area**

Proscenium Width 10.562m (34.65ft)
Proscenium Height Centre 5.50m (18.05ft)
Sides 5.11m (16.77ft)

Wing Space 2.42m (7.94ft) both sides (stage edge to fly rail barrier. **Refer to stage map**)

Stage Tower (stage to grid) 14.02m (46ft)
Orchestra pit depth 2.13m (7ft) ***Under apron**
Orchestra pit area 69.67sqm (750 sq ft) ***Under apron**
Apron depth @ centre 4.24m (13.91ft)

STAGE FITTINGS

- 1 House curtain - red, counter weight action
- 5 Lighting bars
- 5 sets Black legs
- 5 Borders
- 2 sets Black tabs
- 1 Cyclorama
- 12 Scenery bars

FLY TOWER

Single Purchase Counterweight Fly System with an out dead of 12m.

Line 1 to 19 controlled from PS, Lines 20 to 26 from OP. Weight loading from floor only.

Line 26 is the Upstage Limit of the workable Stage Area. Bars are 12m in length.



Line	Standard Setup	Position	Type	Max Dist. Load
	US edge of Pros Arch/DS edge of fire curtain	0.00m		
1	House Curtain	0.53m	N/A	
2	Legs 1 / Border 1	0.73m	Flat Truss	160 Kg
2A		1.00m	Flat Truss	190 Kg
3	LX - 1	1.36m	Flat Truss	190 Kg
4		1.72m	Flat Truss	160 Kg
5		1.93m	Flat Truss	160 Kg
6	Mirror Ball 600mm (24inch)	2.28m	C.H.S.	160 Kg
7	Legs 2 / Border 2	2.66m	R.H.S.	190 Kg
8	Black Scrim ***	3.20m	Flat Truss	160 Kg
9	LX - 2	3.75m	Flat Truss	190 Kg
10	Black Tab (MS)	4.19m	R.H.S + Track	190 Kg
11	Legs 3 / Border 3	4.48m	R.H.S.	160 Kg
12		5.01m	C.H.S.	160 Kg
13		5.67m	C.H.S.	160 Kg
14	LX - 3	6.17m	Flat Truss	190 Kg
15		6.69m	Flat Truss	160 Kg
16		6.92m	Flat Truss	160 Kg
17	Slash Curtain ***	7.16m	Flat Truss	160 Kg
18	Legs 4 / Border 4	7.39m	R.H.S.	160 Kg
19	Black Tab (US)	7.68m	R.H.S. + Track	190 Kg
20	LX - 4	8.20m	Flat Truss	190 Kg
21		8.69m	Flat Truss	160 Kg
22	LX - 5 / Legs 5 / Border 5	9.17m	Flat Truss	190 Kg
23		9.73m	Flat Truss	160 Kg
24	Smother ***	10.12m	C.H.S.	160 Kg
25	Star Cloth ***	10.68m	C.H.S.	160 Kg
26	CYC	10.92m	C.H.S.	160 Kg

Refer to Fly Bar Safe Loads for point and span loading information

RED = Non-Moveable.

R.H.S. is 65mm tall x 35mm wide x 3mm thick

*** Subject to availability & may incur costs

C.H.S. is 48mm diameter x 4.8mm thick

** Bars & items may move lines without notice**

Flat Truss is 300mm Heavy Duty Alloy Truss

LIGHTING

CONTROL	1	ETC Noamd 6144 outputs (12 universe)
	2	48 channel Jands Link Light DMX to analogue converters
	1	Dual Isonode DMX 512 network – Inputs – Control Booth, PR side of stage Outputs – FOH, 3x PR side of stage, OP side of stage, Dimmer room DMX Splitters @Stage level OP and Gantry OP ARTNet from OP gantry to Lx bars 1 – 4 (Universe 3 – 6)
POWER	79	2Kw JTM analogue dimmers
	17	5kw JTM analogue dimmers (dimmers 35-40, 56-60, 76-80 & 96)
	204	lighting points to patch board and dimmers *Refer to “NT - Theatre Patch Outlets.pdf”
	1	32A 3-phase outlet in dimmer room
	1	32A 3-phase outlet on prompt side of proscenium
HANGING POSITIONS	4	lighting bars
	1	CYC lighting bar
	8	movable booms on stage (4 per side)
	2	lighting bars over auditorium
	2	fixed perches in auditorium
	4	movable booms in auditorium
	1	fixed 3m bar with patch points over proscenium arch
FIXTURES		Most fixtures are used in standard rig, refer to standard design for placement
		Fixtures rigged in all FOH positions can only be moved with prior negotiation with the venue
	2	Selecon Performer Followspots (MSR1200) *Above Control Booth in Auditorium
	20	Strand Pattern 23 20°Profiles (500w) *B size gobo holder available
	4	Strand Pattern 123 16-40° Fresnels (500w)
	16	Strand Pattern 743 15-82° Fresnels (1000w) *8x Barndoors available
	2	Strand Pattern 223 15-55° Fresnels (2000w)
	16	RGBA 8° LED Parcans
	8	Proshop RGBW Quad-18 45° LEDs
	16	Par64 240v Parcans (1000w MFL)
	18	Selecon Acclaim Axial 24-44° Profiles (600w) *M size gobo holder available
	10	Selecon Acclaim Axial 18-34° Profiles (600w) *M size gobo holder available
	12	Selecon Pacific 23-50° Profiles (1000w) *B size gobo holder available
	5	Selecon Pacific 14-35° Profiles (1000w) *Iris & B size gobo holder available
	6	Selecon SPX 15-35° Profiles (800w) *B size gobo holder available
	6	Prolite PR10 22-40° Profiles 22-40 (1000w)
	6	Prolite PR10 7-63° PCs (1000w) *2x Barndoors available
	12	Selecon Acclaim 6-60° Fresnel *Barndoors available
	5	Selecon HUI 4-cell CYC Floods (500W)
	5	Selecon HUI 4-cell Ground Row Floods (500W)
	4	UV battens
	1	Strobe (DMX)
	8	Par16 MR16 Birdies (50w)
	1	Molefay Duet Blinder
		* Available Lamp stock may vary
		* Additional Fixtures shown on standard plan will incur a hire cost
OTHER	2	GEM ZR-dmx Smoke Machines
	1	24” Mirror Ball
		*Limited supply of Gobo’s available
		*Limited supply of Gel kept on site
		*Limited supply of Power leads available
		*Limited supply of DMX leads available

The standard LX plan is available for download at:
<http://nationaltheatre.org.au/venue/>

AUDIO

CONTROL	<ul style="list-style-type: none"> 1 Midas M32 Digital Console 1 Mackie 1402-VLZ Pro Console – 14 channel / stereo main output / 2 Aux (side stage) 1 Tascam CD500B CD Player with Auto Pause (Balanced out) 1 Stanton C500 Dual CD Deck with Auto Pause 1 QLab system
POWER	<ul style="list-style-type: none"> *Green Sound Power on OP side of proscenium running all amps, racks, processors 1 <u>Spare</u> Green Sound Power 32A 3-phase outlet on OP side of proscenium
AMPS AND SPEAKERS	<ul style="list-style-type: none"> 1 Funktion One X01 processor (FOH processor) 1 MC2 T1000 power amp (Highs) 1 MC2 T1500 power amp (Mids) 1 MC2 2000 power amp (Subs) 1 QSC GX3 power amp (Front Fills) 2 Funktion One Res 2 high/mid top boxes 2 Funktion One Minibass 212 subs 1 BSS Minidrive processor (centre, delays processor) 1 MC2 1500 power amp (centre, delays) 1 Funktion One F88 centre speaker 8 JBL Control 1 speakers (delays) 6 JBL Control 1 speakers (front fills)
FOLDBACK	<ul style="list-style-type: none"> 1 MC2 T1000 power amp 2 QM108 High Powered 8” speakers flown on LX1 2 QM108 High Powered 8” speakers flown on LX3
EQUIPMENT	<ul style="list-style-type: none"> 2 Sennheiser 835 handheld microphones 1 BSS AR-133 Single Channel Active DI 2 Microphone stands – boom 2 Microphone stands – straight 2 Microphone stands – table 2 Sennheiser ew300 G3 e-845 handheld radio microphones 2 Sennheiser SK 100 G3-A Bodypack Transmitter (JAG IMX6A- Large Headset) 2 Sennheiser Radio Receivers (NOTE - Only 2 receivers for 4 wireless units)
	<p style="color: red;">*Limited supply of microphone leads, line leads and adapters available</p>
MULTICORES / TIE LINES	<ul style="list-style-type: none"> 32/8 XLR (with passive split) sends from OP. to Control Booth with 8 returns 20/6 XLR (with passive split) sends from PR. to Control Booth with 6 returns 12/4 XLR sends from Orchestra Pit to OP. 6 XLR sends from PR. to OP. 4 XLR returns from OP. to Apron OP. w/Green Sound Power 4 XLR returns from OP. to Apron PR. w/Green Sound Power 4 flown XLR sends from Cinema Screen (Line 2A) bar to OP. 4 flown XLR sends from Legs 3 (Line11) to OP.
HEARING ASSISTANCE	<ul style="list-style-type: none"> 1 PhonicEar Easy Listener PE550T Transmitter 8 PhonicEar Easy Listener PE 300R Receivers 4 Headphones to suit PE 300R 4 Neckloops to suit PE 300R
COMMUNICATIONS	<ul style="list-style-type: none"> 1 ClearCom MS-702 Encore Master Station 4 ClearCom RS-601 Single Channel Beltpacks 1 ClearCom RS-602 Dual Channel Beltpack 1 ClearCom CM-222 Tempest Wireless Base Station 4 ClearCom CP-222 Tempest Wireless Beltpacks 4 ClearCom CC-40 Single Ear Light Weight Headsets 4 Beyer Dynamic DT-108 Single Ear Headsets 2 Beyer Dynamic DT-109 Dual Ear Headsets 1 ClearCom HS-6 Telephone Style Handset (reserved for audio operator)

*Comms lines @Sound Control; Lighting Control; OP & PR @proscenium & flies; C Auditorium.
 * Wireless beltpacks are reserved firstly for theatre staff. We reserve the right to deny usage.

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AUDIO / VISUAL

EQUIPMENT	1	HDMI Splitter (1 IN/4 OUT to same device type) <i>* Limited supply of converters/adapters</i> <i>* Limited supply of leads</i>
SCREENS	1	Cinema Screen hung from Line 2A (<i>non-movable</i>)
	1	3.5m x 2.5m front project screen (<i>flown only</i>)
A/V TIE LINES	5	Composite video feeds from OP to Control Booth (BNC)
	1	Composite video from C Auditorium to Control Booth (BNC)
SDI TIE LINES		Limited lines available – please check with Venue
Cat5 UTP TIE LINES	4	OP to Control Booth
	4	OP to Roof Space
	4	OP to C Auditorium
	4	OP to Orchestra Pit
	4	OP to Prompt
	4	OP to OP Gantry

OTHER

FLOORING		Black Masonite floor is standard (<i>no screwing to floor</i>) Black Tarkett dance floor is available <i>*Ballet or bare foot performances ONLY</i>
AUDITORIUM CENTRE	1	Green Power
	2	XLR returns to Control Booth
	1	Composite video to Control Booth (BNC)
	4	Cat5 UTP Tie Lines to OP.
	1	Comms Line
PIANO'S	1	Yamaha G1 (5'3") Baby Grand <i>*Cannot leave stage level</i>
	1	Orchestra Pit Piano – Upright <i>*Cannot leave pit</i>
	2	M-Audio Key Studio 49i - Electric Keyboard

ADDITIONAL CHARGES APPLY FOR ALL EXTRA:

- | | | |
|-----------------------|-----------------|--------------------|
| - lighting equipment; | - AV equipment; | - audio equipment; |
| - lamps; | - gobos; | - gels; |
| - comms; | - headsets; | - consumables. |

A minimum 15% mark-up will be placed on all equipment hired in on your behalf