

Darebin Arts & Entertainment Centre

Theatre

Technical Specifications

Updated
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Acting Ops Manager: **Sarah Irwin**
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Venue:
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STAGE

Stage Description:

Unraked stage with a proscenium arch and downstage thrust stage. Hardwood floor covered with Masonite sheets. Painted matte black. Screwing into surface permitted but larger holes to be authorised by Technical Manager.

Stage distributed load limit	750kg/m2 (7.5Kpa)
Stage point load limit	Point load = 450kg (4.5KN)
Stage rake	No
Stage height in stalls	0.910m

Stage Dimensions:

Proscenium

Width.....	10.100m
Extended.....	12.480m
Height.....	6.000m

Setting Line

Upstage edge of Proscenium arch

Distance From (*SL = Setting Line, CL = Centre Line*)

SL to DS edge of apron	2.400m - 3.500m (curved edge)
SL to first fly line.....	0.960m
SL to last upstage fly line.....	8.570m
SL to rear wall.....	10.150m
CL to OP wall (or obstruction).....	11.350m
CL to PS wall (or obstruction).....	9.990m
Stage to underside of grid.....	14.950m

Auditorium:

Auditorium consists of stalls and 2 side galleries – Please refer to seating plan

Fixed Seating	383
With side galleries (6 seats per side).....	395

Orchestra Pit:

Orchestra Pit located under thrust stage. 2 Centre panels removable for conductor's position.

Dimensions of the orchestra pit

Width	10.00m
Depth	3.500m
Height.....	2.600m

Orchestra pit maximum capacity.....18 persons

Flying Facilities:

Fly System

ITE Single purchase handline system

Fly System Details

Operating Position	Prompt side at stage level
Total number of Lines	31
Panorama Lines	None
Batten Drift	14.680m
Batten Type	48 mm O.D durigal pipe
Batten Length	14.600m
Batten Extensions	8 (for legs)
Batten Pick-ups	(5) Pick-ups, (1) at Centre then others at 3m intervals
Batten Point Load	70kg
Batten W.L.L.	350 kgs
Cradle Capacity	<i>Refer to the Hanging Plot for details</i>
LX bars can be swung	No
Fly bars can be swung	No

SEE APPENDIX 1 "HANGING PLOT" FOR LINE ALLOCATIONS AND FURTHER DETAILS

Drapery

Type	Material	Colour	Width	Height	Quantity
House Curtain -Flown and Motorised (french action) with fixed speed	Sonata Velvet	Red	12000mm	7000mm	1
Borders	Wool, 50% gathered	Black	12000mm	1800mm	4
Legs	Wool, 50% gathered	Black	2600mm	7000mm	4 sets
Tabs / Smother	Wool, 50% gathered	Black	12000mm	7000mm	3 sets
Cyclorama	Filled Cloth	White	12000mm	7000mm	1

Additional Rigging Notes

6kg (half weights) should always have at least one full weight above it in the cradle.

Maximum cradle weight is 350kg.

Staging Notes:

Limited rigging gear available in house, including lifting straps and shackles.

All flown items must be rigged with rated equipment and is subject to approval by a venue representative.

Access to the stage galleries is from the PS of stage and via the biobox.

Access Equipment:

Elevated Work Platform

Upright MX19 Drivable Scissor Lift

Working Height – 7.8m

Maximum Platform Height – 5.8m

Maximum Platform Load – 227kg

Maximum Platform Length with Extension Deck – 2.5m

Platform Length no Extension Deck – 1.6m

EWP Restrictions

One staff member to be located at floor level whilst in use.
All DAEC Supervising Technicians carry permits for Vertical Lift operations.

Ladders

- (1) 20ft Alum. extendable
- (1) 12ft Alum. A-Frame
- (1) 6ft Alum. A-Frame
- (1) 3ft Alum. A-Frame

<u>Staging Units:</u>	No
<u>Stage Covers:</u>	No
<u>Stage Traps:</u>	No
<u>Safety Curtain:</u>	No

Loading Dock:

Access

Truck access via Peter St. Truck able to reverse up to loading dock. Will fit Pantec.
Load straight onto stage.

Loading Dock Height.....1.065m

Loading Dock Door to roadside.....8.500m

Door Dimensions

Height.....4.350m

Width.....3.150m

Restrictions / Obstructions

No overhead restrictions. Easy access. Sliding door to be opened by supervising technician.

LIGHTING

Details:

Lighting desk	Strand 520i
Location	Biobox
Control channels	250
Signal output	DMX 512
Wash	3 Color Wash – R079 (Blue), L111(Pink), (Salmon)
Cyc	4 Color wash – Purple (L180), Green (L139), Blue (L132), Red (L106)
Deckle	Break up Gobo
Specials	“Channel 9” spot configuration, large center spot, large upstage spot

Positions:

Stage LX Bars	Fixed. Cannot be swung <i>See Appendix 1 ‘ Hanging Plot’ for standard LX bar locations</i>
Orchestra Bar	none

FOH Bridge #1

Setting Line to lighting bar 8.790m to Bridge 1
Usable bar width 14.500m

FOH Bridge #2

Setting Line to lighting bar 10.240m to Bridge 2
Usable bar width 13.000m

FOH Bridge #3

Setting Line to lighting bar 12.210m to Bridge 3
Usable bar width 13000m

Balcony Bar

Setting Line to lighting bar none

FOH Perches (PS & OP)

Setting Line to FOH Perch 10.450m
Distances are to the highest downstage point of boom or perch.
Maximum lanterns per perch 7 (only six patch points in galleries)
Notes boom length..... 3.700m

FOH Booms (PS & OP)

none

DMX Signal distribution:

DAEC DMX Runs

D10	D11	D12
Bio Box Stage - P.S. Stage - O.P. Dimmer Room (Terminates)	Bio Box Gallery - P.S. - Pros Arch Gallery - P.S. - Rear Gallery - O.P. - Rear Gallery - O.P. - Pros Arch Centre Bridge 1 Centre Bridge 2 Centre Bridge 3 (Terminates)	Bio Box Foyer (Terminates)

Remote riggers available onstage: Yes

Dimmer Racks:

14 x Bytecraft lds dimmers
6 x 5kw
108 x 2.5kw

Dimmer Locations

All dimmers are located in the dimmer room. The room is located next to the stage door at the OP side of the venue.

House Lights:

Independant control yes

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Control positions: Control room and PS of stage.
Fade time adjustable No

Lamps:

Strand Prelude 16/30 - 650w12
Strand Cantata 18/32 - 1200w.....10
Strand Cantata 26/44 - 1200w10
Strand SL Zoomspot - 575w.....12
Strand Fresnel - 1200w.....18
Strand Cantata PC - 1200w.....6

Par64 240v 1000w.....24
Iris 4 Cyc units - 1250w.....6

Selecon Pacific 1200 w Followspot2
22inch Mirrorball w/ Motor.....1

Patching:

Lighting Outlets - On Stage

4 Lx bars.....24 outlets per bar
10 Dip traps.....3 outlets per trap
PS & OP fly gallery.....32 outlets

Lighting Outlets - Auditorium

3 Interconnected bridges.....30 outlets per bridge
2 Perch bars.....6 outlets per perch
Galleries.....6 outlets per gallery
Follow spot room.....1 outlet per followspot room

Power:

3 Phase Outlets

FOH Foyer (not for theatre use)

- 2 40amp 3Ø 5pin 500v outlet

On Stage DSP

- 1 40amp 3Ø 5pin 500v outlet

On Stage DSOP

- 1 40amp 3Ø 5pin 500v outlet

OP Dimmer Room

- 4 40amp 3Ø 5pin 500v outlet

Orchestra Pit

- 1 32amp 3Ø 5pin 500v outlet

OP Dressing room

- 1 32amp 3Ø 5pin 500v outlet

Cabling:

240v Extension Cable

The theatre has a good stock of extension leads to accommodate the venue's standard lighting rig. Any additional equipment will require additional cable stock to be sourced.

Looms

None

3 phase Extensions

None

Power Distribution

2 x 32 amp 3 phase distribution board including:

3m 32amp Wilco plug extension.

9 x DGPO's with circuit protection.

1 Road cased, 1 not.

AUDIO

Control Positions:

Control Room

Rear and centre of auditorium, dedicated position, no seats pulled, open area – no glass, access via bio box.

Auditorium

A production point is available and located at centre and in front of row L. Typically used for rehearsals and plotting

Other

Prompt side of stage at Stage Managers console, mixer patched through main console. This area also used for monitor control area for large audio productions.

Control & Amplification:

Primary Mixer

M7CL Yamaha Digital Mixing Console

48 mic inputs, 16 mix channels, 8 matrix channels, 1 stereo channel, 1 mono channel

Secondary Mixer

Berringer Euro rack MX 602A

2 mic inputs, 2 stereo line inputs, 2 stereo inputs, 1 aux send, phantom power

Amplifiers/control

4 ARX SX 1500 amps

1 ARX Interactive system control unit

2 Bose 802 C system controllers

The following are available but are not currently installed:

EQ

1 ARX EQ60 dual channel graphic equalizer

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McLelland dual 27 band EQ

FX

Yamaha Rev500

Compression / Limiter / Gates

2 ARX Quadcomp 4 channel compressor/limiter

2 Symetrix 501 compressor/limiter

Speakers:

FOH Speakers Cobra 2 by DYNACORD (L/R)
Floor Subs available upon request

Foldback 2 x ARX Powermax 3 wedges – passive

Playback:

Item	Make	Model	Detail	Total
1	Denon	DN-T620	cd/cassette combi-deck (prompt desk)	
1	Denon	DRM-740	cassette player (mixing position)	
1	Marantz	CDR 510	CD player and Recorder (mixing position)	

Microphones:

Make	Model	Detail / Accessories	Hire Charge	Total
Shure	SM58	Cabled Mic	No	3
Shure	Beta 87A	Handheld Radio mic	\$110 per day	1
Shure	WBH53T	Headworn Condenser	\$110 per day	2
Sennheiser	ME66	Shot gun	No	4
Shure	MX202w/c	Overhead choir mics	No	2
Sennheiser	EW300	Hand held Radio mic	\$110 per day	2
Crown	PCC 160	Plate mics	No	2

Accessories:

Item	Model	Detail / Accessories	Total
Microphone stands	K & M	Round base	2
Microphone stands	K & M	With boom arm	10
Microphone stands	K & M	Table stands	4
DI	McLelland	Mono direct input box	2
DI	ARX DI-2	Stereo DI Box	1
Headphones	Sony		1
Cable Tester	Behringer		1

DESK INPUT/OUTPUT PATCH AND AMPLIFIER INPUTS

- LOOM 1 = Channels 1-24 from control room stage mic patch panel to desk channel inputs
- LOOM 2 = Channels 25-40 from control room stage mic patch panel to desk channel inputs
- LOOM 3 = Desk outputs as per table 4 to equipment rack XLR patch bay.

NOTE: LOOM 3 from desk outputs terminates at the XLR patch bay in the equipment rack in the control room. See table 1

Speaker Patching:

THEATRE SPEAKER PATCH POINT LOCATIONS

POINT #	LOCATION	FUNCTION
LS1	P Side Stage	Stage foldback
LS2	P Side Stage	
LS3	OP Side Stage	Stage foldback
LS4	OP Side Stage	
LS5	P Side Front Of Stage	
LS6	OP Side Front Of Stage	
LS7	P Side Fly Gallery Level	
LS8	Op Side Fly Gallery Level	
LS9	P Side Front of Stage	
LS10	OP Side Front of Stage	
LS11	Bridge 1 Op Side	Mid/high LEFT
LS12	Bridge 1 P Side	Mid/high RIGHT
LS13	Bridge 1 P Side	
LS14	Bridge 1 Op Side	
LS15	Bridge 3 P Side	
LS16	Bridge 3 OP Side	
LS17	Fly Gallery P	
LS18	Fly Gallery P	
LS19	Fly Gallery OP	
LS20	Fly Gallery OP	
LS21	Fly Grid P	
LS22	Fly Grid OP	
LS23	Bridge Centre	Full Range CENTRE CLUSTER
LS24	Bridge Centre	Full Range CENTRE CLUSTER
LS25	Bridge Centre	Sub LEFT
LS26	Bridge Centre	Sub RIGHT

All speaker points return to the Control Room, and terminate in the audio equipment rack cupboard.

Cabling:

Audio Cable

- 40 XLR mic cables (approx)
- Assorted audio leads – RCA, Jack etc.
- 2 x 2 meter 8 way XLR send/return looms
- 1 x 8 meter 6 way XLR loom

The theatre has a good stock of cable to accommodate the venue's equipment.

Multicore

- 40 channel fixed installation
- No returns

THEATRE MICROPHONE PATCH POINT LOCATIONS

POINT #	LOCATION
A1 - A40	Stage PS
A1 - A40	Stage OP
A1 - A10	Pit PS
A11 - A20	Pit OP
A21 - A30	Fly Gallery PS
A31 - A40	Fly Gallery OP
A41 - A42	Auditorium Centre (Production Point)
A43 - A45	Bridge 2 Centre (Auditorium mic - show relay)

Audio Notes:

Speaker positions fixed installation. Not adjustable.
 Generally all amps are set to the maximum level unless special circumstances prevail.
 The hearing loop is fed from the FOH desk mono XLR output to the transmitter.

AUDIO VISUAL

Projectors:

1 x Sony 6000 lumen – charged at \$300 per day

Screens:

Projection Screen

30' x 20' Filled Cloth Cyclorama - \$150 per day

Additional Screens

12 x 9 Freestanding Screen - \$400 per day

AV Playback Equipment:

1 x Blue Ray DVD/VHS w/ Remote Control

1 x Sony Vaio Laptop running Windows 7 - \$75.00 per day

Wireless internet usage needs to be pre-arranged with Operations Manager. Please allow 2-3 days notice. Some websites are restricted and charges may apply.

Projector Rigging Points:

Video projector is permanently rigged from LX bridge 3

Cabling:

The theatre has some stock of coaxial and RCA cable to accommodate the venue's own equipment.

Audio Visual Notes:

The Theatre has limited A/V equipment. Any special requirements should be discussed with the Operations Manager prior to booking.

BACKSTAGE

Communications:

Stage Managers Desk

Stage Managers desk is located in prompt corner. The desk is fixed in this area and is fitted with a light, call to dressing rooms, intercom system, CD player and TV monitor (shows full stage from FOH desk).

Talkback

Master Unit:	Jands EZICOM E-400 system running one common loop.
Total sub stations	12 Jands EZICOM E-100 belt packs
Total headsets	9 Sennheiser DT - 160
Radio Units In-house	Motorola provided for staff use only. Smaller radios available for focussing and onstage communications during setup periods.

Talkback patching located at: Stage Managers Desk (Master unit)

- PS Stage house curtain
- PS Stage flies
- PS UP Stage
- OP UP Stage
- OP DOWN Stage
- FOH Bridge
- Follow spots (2)
- Production desk (auditorium)
- Audio FOH desk
- LX desk bio box
- Dressing rooms
- LX dimmer room
- Orchestra pit
- Galleries

Paging / Show relay

Paging to the dressing rooms is available from the stage managers desk. Show relay is distributed to both dressing rooms. Volume is controlled from the distribution amp in the Stage Managers desk.

Stage Monitor

TV monitors set-up at SM position and both dressing rooms. Camera located at the rear of the theatre centre above the FOH mixing position.

Q Light System

None

Dressing Rooms:

Amount	2
Location	Under the stage
Access	via staircase on either side of stage
Capacity	60 each
Mirrors	each dressing room has adequate mirrors with benches and lights
Toilets	1 suite and 1 urinal in dressing room 1 (Prompt Side) 2 suites in dressing room 2 (Opposite Prompt Side)
Showers	2 in both
Heating and Cooling	yes in both
Power	next to mirrors located around the room

Laundry / Wardrobe:

Washing Machines	1 Toploader (5kg) located in O.P dressing room
Dryers	1 Front Load dryer located in O.P dressing room
Drying rooms	none
Iron / ironing board	Available upon request
Clothes racks	7 portable racks available

Production Facilities:

Production Desk

Production desk set-up in the centre of the stalls, (available upon request) Table accommodates 2 people with audio points, DMX for the lighting desk, talkback and 2 audio lines to the bio box stage box patch panel.

Production Office

No

Phone

Tech office facilities available.

Fax

The DAEC fax number is 9261 4890

Access to phone for internet access

Access to the internet is on arrangement with the Operations Manager.

Greenroom

No Greenroom

Other

Tea / Coffee facilities	Kiosk opens during performances
Fridge / freezer	A small bar fridge is located in the dressing rooms
Microwave	No
Running water	Yes, located in both dressing rooms

Stage Door Access:

Stage Door is located beside the loading dock in Peters St. Access during bump-in / out will be controlled by the supervising technician. During performance periods the stage door is locked unless otherwise advised by the client.

ADDITIONAL FACILITIES & INFORMATION

Orchestral:

Yamaha C3 Baby Grand piano. Located OP stage. Regularly maintained by DAEC. Tuned on a quarterly basis
(25) padded seats with backrest available - \$110 per day

Rehearsal Space: No specific rehearsal rooms available.

VENUE:

Venue Contacts:

Venue Address and Postal Address Cnr. St.Georges Rd & Bell St. PRESTON VIC 3073

Staff Contacts:

Supervising Technician	Denis McGrath
Phone Number	8470 8272
Email Address	dmcgrath@darebin.vic.gov.au
Fax Number	(03) 9261 4890
Supervising Technician	Paul Bilsby
Phone Number	8470 8272
Email Address	pbilsby@darebin.vic.gov.au
Fax Number	(03) 9261 4890
Venue Services Officer	Mark Matthews
Phone Number	8470 8282
Email Address	mmatthews@darebin.vic.gov.au
Fax Number	(03) 9261 4890
Box Office/Admin	Sarah Irwin
Phone Number	8470 8283
Email Address	sirwin@darebin.vic.gov.au
Fax Number	(03) 9261 4890
Stage	
Phone Number	Internal Only (8273)

Venue Plans:

Venue Plan Available

YES, PDF or DWG file is available for download on the APACA or VAPAC website and at www.darebinartscentre.com.au

Venue Section Available

YES, PDF or DWG file is available for download on the APACA or VAPAC website and at www.darebinartscentre.com.au

Food, Petrol & Accommodation:

Directly opposite the Centre is a BP service station and on the other corner is a McDonald's restaurant. Bell St. runs past the Centre and will take you directly to the Tullamarine freeway which links to the Western Ring Rd & Hume Highway. There is accommodation within 200 metres of the facility.

Appendix 1

Hanging Plot:

SL: Setting Line as indicated previously

Line Type: **SP** = Single purchase, **DP** = Double purchase, **MW** = Motor Winch (French Action),

HW = Hand Winch (French Action), **HL** = Handline

W.L.L.: Maximum distributed load including bar weight

Line #	Distance from SL (m)	Line Type	W.L.L	Venue Allocation	Intended Use (hiring company use)
	0.76	SP/MW	500kg	House Curtain	
1	0.96	SP	350kg	No.1 Black Border	
3	1.32	SP	350kg		
4	1.56	SP	350kg	No.1 Black legs	
5	1.71	SP	350kg	LX 1	
7	2.11	SP	350kg	Choir Mics x 2	
8	2.32	SP	350kg		
9	2.56	SP	350kg	No.2 Black Border	
11	2.94	SP	350kg	No.2 Black Legs	
13	3.36	SP	350kg	LX 2	
14	3.52	SP	350kg		
15	3.73	SP	350kg		
16	3.93	SP	350kg	Mirror Ball	
17	4.13	SP	350kg		
18	4.33	SP	350kg		
19	4.56	SP	350kg	No. 3 Black Border	
20	4.76	SP/ HW	350kg	Mid Stage Black Tabs (traverse)	
22	5.16	SP	350kg	No.3 Black legs	
24	5.56	SP	350kg	LX 3	
25	5.76	SP	350kg		
26	5.95	SP	350kg		
27	6.14	SP	350kg		
28	6.36	SP/ HW	350kg	¾ Stage Black Tabs (traverse)	
30	6.76	SP	350kg	No.4 Black Border	
31	6.96	SP	350kg	No.4 Black Legs	
32	7.16	SP	350kg		
33	7.35	SP	350kg		
35	7.76	SP	350kg	LX 4 Flood Bar	
37	8.14	SP	350kg		
38	8.37	SP	350kg	White Cyc	
39	8.57	SP/ HW	350kg	Upstage Black Tabs (traverse)	