

VENUE INFORMATION

ILLAWARRA PERFORMING ARTS CENTRE | IMB THEATRE TECHNICAL SPECIFICATIONS

VENUE INFORMATION

- IPAC is located in central Wollongong and hosts two performance spaces and one studio/rehearsal space.

AUDITORIUM

- The IMB Theatre has 515 seats.
Rows A - C are level seating (i.e. not raked), Row A being closest to the stage.
Row G is on entrance level and is the only row that does not require access via the stairs.
- If the Orchestra Pit or Forestage Thrust is to be used, then total capacity is 30 SEATS LESS.
(A & B Rows are positioned on the Pit at Auditorium level when Pit/Thrust is not in use)
- If Sound desk is to be located in Auditorium, then total capacity is 11 SEATS LESS.
(This is typically R16 - 20 & S16 - 21)

STAGE SPECIFICATIONS

BRIEF STAGE DESCRIPTION

Unraked Proscenium Theatre, with the option for the orchestra pit to be raised to stage level to accommodate a forestage thrust.

STAGE DIMENSIONS

Proscenium

Width	11.80 metres
Height	7.00 metres

Stage

Width	20.10 metres	(OP Wall to counterweight Frame)
Depth	11.75 metres	(Setting line to back wall)
	10.60 metres	(Setting line to last set of lines)
	0.80 metres	(Setting line to edge of forestage)

ORCHESTRA LIFT / FORESTAGE THRUST

Width	10.75 metres
Height	3.00 metres
Load Rating	7.50 Tonnes

OPERATING HEIGHT

Stage level to Auditorium Height	0.850 metres
Stage level to Pit Level	3.00 metres
And at any intermediate level	

Screw-jack mechanism, control point located under stage,
Lift floor contains 3 traps for lighting, audio & power outlets.

ORCHESTRA PIT (TRAPEZOID IN SHAPE)

Accommodates up to 30 musicians in comfort.

Width at front	10.75 metres
Width of rear	14.50 metres
Depth at widest point	5.50 metres

STAGE FLOOR SURFACE

Hardboard nailed to Tallow Wood, full width, no level change, no rake.

Load rating 7.5 kpa

FORESTAGE ACCESS (JULIETS)

Doors either side of proscenium arch, 1 metre wide x 2.1 metres high

STAGE ACCESS

SCENERY

Loading Dock is situated at the back of the venue (Northern Side).
Access available via Town Hall Place off Burelli Street.

Direct from scenery/loading dock, via acoustic sliding doors

Width	2.80 metres
Height	6.90 metres
Diagonal	7.50 metres

PERSONNEL

Stage Door is situated on the Eastern side of the building off Town Hall Place.

RESTRICTIONS / OBSTRUCTIONS

Access to the loading dock is difficult due to sharp 90° turn required.
Please call before arrival and for further information.

FLY TOWER DETAILS

DIMENSIONS

From stage level to underside of:

Level 1	7.75 metres	(3 sides of stage - OP, Rear Wall, PS)
Level 2	10.80 metres	(3 sides of stage - OP, Rear Wall, PS)
Level 3	14.75 metres	(PS only)
Grid Height	17.65 metres	
Width	16.75 metres	between fly galleries (Bridge to Bridge)

STANDARD BATTEN

Length	15.40 metres
Construction	Ø48 mm O.D pipe

STAGE MACHINERY

FIRE CURTAIN

Semi rigid sheet steel with electric winch

HOUSE CURTAIN

Red Velvet, Single purchase counterweight set operated from PS corner,
Line situated 250 mm US from setting line

FALSE PROSCENIUM

Teaser, 15.40 m wide by 3.50 m drop, black
Tormentors, 2.00 m wide by 8.40 m drop, black

COUNTERWEIGHT-SYSTEM

- 50 single purchase 5 line counterweight sets, operated from stage level PS
- 400 kg cradle capacity with 4 extension cradles for an additional 200 kg.
Total Rated Mechanical Capacity for any one line is 600kg.
- 16.80 m batten travel (from grid to floor)
- Line No 1, 500 mm upstage of setting line
- All lines at 150 mm centres, except those adjacent to structural steelwork
- Panorama battens parallel to fly galleries

CHAIN MOTORS, WINCHES AND CONTROL

- 4 x GIS D8+ 500kg Chain hoist with 20 metres chain, speed at 4 metres per Min, with position encoders.
- These hoists have double brakes and limits for safe rigging within a public space, according to the VLP Standards.
- 1 x Kinesys Smart 8 - 8way chain hoist control system with ability to write position cues and groups. All associated motor cabling etc

CURTAIN TRACK

- 1 manually operated curtain track 16.00 metres in length, french action.

STAGE DRAPERY

TYPE	MATERIAL	COLOUR	WIDTH	HEIGHT	QUANTITY
Leg	Wool	Black	5.00 metres	8.00 metres	5 (pairs)
Leg	Wool	Black	6.50 metres	8.00 metres	1 (pair)
Border	Wool	Black	15.4 metres	3.80 metres	6
Tab	Velour	Black	8.3 metres	8.40 metres	1 (pair)
Curtain	Wool	Black	9.0 metres	8.40 metres	1 (pair)
Gauze	Cotton	Black			1
Cyclorama		White			1

ACCESS EQUIPMENT

ELEVATED WORK PLATFORM

JLG 30AM Lifter

Working Platform height 9.09m

EWP RESTRICTIONS

Outriggers must be in and wound down to ascend and must remain in at all times, while in operation. One staff member should be in the area at all times the EWP is in use. Must only be used by trained personal.

LIGHTING

LIGHTING CONTROL

Desk	ETC GIO With 2 x 20 Submaster Wing (total of 40 faders)
Control Channel	1000
Remote Riggers	Yes

DIMMERS

Total Dimmers	216 x 2.4kW LSC Teko Channels 24 x 5kW IDS Channels *4 extra roving 12ch LSC Teko Dimmer Racks available on request.*
---------------	---

STAGE LANTERNS

PROFILES				
MAKE	MODEL	DETAILS	WATTAGE	TOTAL
ETC	Source 4	Angle: 19°	750w	10
ETC	Source 4	Angle: 26°	750w	10
ETC	Source 4 Zoom	Angle: 15° - 30°	750w	20
ETC	Source 4 Zoom	Angle: 25° - 50°	750w	10
ETC	Source 4 JR Zoom	Angle: 25° - 50°	750w	29
Selecon	Pacific	Angle: 12° - 28°	1000w	25
FRESNEL'S				
Selecon	Rama	All have barndoors	1200w	50
Selecon	Arena	All have barndoors	2000w	12
Strand	Harmony		1000w	20
PAR CANS				
	Par 64	Angle MFL, NSP, VNSP	1000w	24
CYC				
Iris 4-Way	Strand		1000w	5
Pallas 4-Way	Strand	Ground row	625w	6
FOLOWSPOTS				
Robert Juliat	Topaze1200		1200w	2
ADDITIONAL STOCK				
James Thomas	4-Way Molefay	Par 36		10
	Parnel	MFL/NSP/VNSP	600w	2
Look Solutions	Unique 2	Hazer		1
Jem	ZR12	Smoke Machine		1
ACL	4-way Par Bars			4
Martin Atomic	Strobe		3000w	3

LIGHTING CONT.

DIMMER

349 circuits are distributed throughout the theatre & are

PATCH

Fully patchable via a main patch panel in the dimmer room, situated on level 3 between our 2 venues. Approx 10 – 15m from OP fly gallery level 1.

DMX

8 way DMX distribution (Jands DD8) located on OP Fly gallery

PATCH

4 DMX Patches run between OP Fly floor and Bio Box

2 DMX Patches run between OP Fly floor and Dimmer Room

3 DMX Patches to floor OP & P DS (back of Pros wall) and one US OP (On upstage wall)

1 DMX Line to each lighting bar

LIGHTING PATCH OUTLETS

Lighting Patch outlets are situated in the following positions:

STAGE

6 x Lighting bars	30 x 10 amp outlets
1 x Cyclorama bar	12 x 10 amp

FOH BRIDGES

NO 1 FOH LIGHTING BRIDGE

Patch outlets	4 x 20 amp, 26 x 10 amp
Throw from centre of bridge to setting line	8.00 metres
Bridge length	16.00 metres
Angle at setting line	68 degrees

NO 2 FOH LIGHTING BRIDGE

Patch outlets	4 x 20 amp, 26 x 10 amp
Throw from centre of bridge to setting line	9.40 metres
Bridge length	17.50 metres
Angle at setting line	44 degrees

NO 3 LIGHTING BRIDGE

Patch outlets	4 x 20 amp, 26 x 10 amp
Throw from centre of bridge to setting line	12.50 metres
Bridge length	15.60 metres
Angle at setting line	36 degrees

BOX BOOMS/PERCHES

PROSCENIUM BOOMS PS & OP

Patch outlets (per side)	2 x 20 amp, 13 x 10 amp
Throw to setting line at centre of stage	6.00 metres
Angle at setting line up to	Varying degrees
Speaker hangs may affect sightlines/shots from this position. If necessary please discuss with Merrigong's production manager.	

BOX BOOMS PS & OP

Patch outlets (per side)	2 x 20 amp, 8 x 10 amp
Will comfortably house 3 Profiles (Harmony/Cantata/Pacific)	
Throw to setting line at centre of stage	12.00 metres
Angle at setting line up to	60 - 68 degrees

FORESTAGE (JULIETS)

Patch outlets per side	2 x 20 amp, 3 x 10 amp
------------------------	------------------------

FLY GALLERY PATCHING

PS FLY GALLERY

No 1	2 x 20 amp, 18 x 10 amp
No 2	2 x 20 amp, 18 x 10 amp
No 3	10 x 20 amp

OP FLY GALLERY

No 1	2 x 20 amp, 18 x 10 amp
No 2	2 x 20 amp, 18 x 10 amp
No 3	2 x 20 amp, 18 x 10 amp
No 4	2 x 20 amp, 18 x 10 amp

GRID

DS PS	2 X 20 AMP, 3 X 10 AMP
-------	------------------------

FLOOR WELLS

PS FLOOR WELL

No 1 (DS)	1 x 20 amp, 4 x 10 amp
No 2	5 x 10 amp
No 3	5 x 10 amp
No 4 (US)	5 x 10 amp

OP FLOOR WELL

No 1 (DS)	5 x 10 amp
No 2	5 x 10 amp
No 3	5 x 10 amp
No 4 (US)	1 x 20 amp, 4 x 10 amp

FRONT OF STAGE (DS)

OP Side (In Trap at Front of Stage)	3 x 10 amp
PS Side (In Trap at Front of Stage)	3 x 10 amp

SUB STAGE

Panel	2 x 20 amp, 2 x 10 amp
-------	------------------------

ORCHESTRA PIT

PS Floor Trap	1 x 20 amp, 1 x 10 amp
OP Floor Trap	1 x 20 amp, 1 x 10 amp

CONTROL ROOM 2 x 20 amp, 2x 10 amp

REAR OF HOUSE PS 1 x 20 amp, 2 x 10 amp

REAR OF HOUSE OP 1 x 20 amp, 2 x 10 amp

AUDIOVISUAL FACILITIES

PROJECTORS

1 x Panasonic DLP PT-4000E

AUDIO FACILITIES

Audio operating position – Located in the Tech Box or Auditorium

It is assumed all Audio operation is from the tech box, please confirm in advance if the Auditorium position is required, as the seats need to be taken off sale.

SPEAKERS FOH

Left and Right Hang of Nexo Geo Line Array System – designed for full coverage of the room.

- 1 x Geo S10 per side
- 2 x Geo S30 per side
- 1 x Nexo PS8's per side (as front row in fills)

Hung Centre of the Pros. is a pair of Nexo RS-15 subs.

All processing for FOH speakers is controlled by the NXAMP 4x4 which powers and drives the speakers.

MIXER

1 x Midas PRO2 Digital Audio Console, with
1 x DL251 I/O rack with 48 inputs and 16 outputs.
2 x 100m. cat 5 reels to I/O to console from stage

MICROPHONE OUTLETS

Stage (In Floor wells P & OP wings)	20 total
Orchestra pit (In Floor wells P & OP of Pit)	16 total
Bridges/fly galleries	4 total
Auditorium (Floor well centre of Auditorium)	2 total

OUTBOARD EQUIPMENT

All "Outboard" is now inboard and included on console.

ADDITIONAL AUDIO supplied subject to availability at additional cost to hirers

MONITOR CONTROL	
1 x Allen & Heath iLive Digital mixing console with 48/24 Stagerack and T112 control surface-	
SPOT SPEAKERS / FOLDBACKS	
QTY	DESCRIPTION
8	Allen & Heath iLive Digital mixing console
6	FBT Jolly's
MICROPHONES	
10	Shure SM 58 Vocal Microphone
9	Shure SM 57 Instrument Microphone
4	Shure Beta58a Vocal Microphones
2	Shure Beta87a Multipurpose Microphone
1	EV Cobalt C05 Vocal Microphone (Switched)
1	Beyer TGX58 Vocal Microphone (Switched)
5	PCC 160 Crown Floor Microphone
1	Audio Technica 857 Gooseneck Lecturn Mic
2	Dpa 4099p Piano Mics
3	Beyer Dynamic Tgi 53c
2	Beyer Dynamic Tgi 57c
1	Beyer Dynamic M88 Kick Drum Mic
2	Sennheiser E906 Ei. Gtr. Mic
6	Audio Technica 8033a Pencil Condensors
4	Audio Technica Pro45 Drop Mics
1	Audio Technica 857 Gooseneck Lectern Mic
1	Shure Beta 87 Vocal Mic
DIRECT INJECTION BOX	
4	Klark Technique DN100
1	Mclelland Passive Di Box Pdb - 100
5	Behringer Active Di Box Di-100
3	Radial J48
RADIO MICROPHONES	
2	Shure ULX-P4 handheld System with SM-58 head
1	Shure ULXp4 Bodypack transmitter with DPA 4066 to suit above receiver
7	Sennheiser G3 Radio Mic Systems with Handheld and Bodypack System (Rack mounted with paddle ariel distro)

STAGE MANAGEMENT EQUIPMENT

BOH PAGING

Back of house paging system to all dressing rooms, green room, technical offices and loading dock. Priority over-ride of dressing room volume control and show relay for stage management page. Paging microphone located Prompt Corner.

CCTV

Colour CCTV Feed to Prompt Corner (camera located in front of Bio Box off overhead gantry) – 34cm Colour TV mounted above SMD

STAGE MANAGERS CONSOLE

Currently out of service for overhaul

COMMUNICATIONS

6 x Clearcom Belt Pack Units with Beyer/Clearcom Headsets

5 x Clearcom Freespeak Wireless Comms Bletpacks available on request.

Aerial system is distributed for even coverage of backstage areas.

Comms Patch outlets located:

Stage dip traps (OP & PS)

PS side on fly rail

Prompt Corner/SMD

Bio Box

Auditorium (Row G – PS)

Auditorium (Centre Auditorium – Production Desk Position)

Fly Galleries 1,2 & 3 (OP & P)

Dimmer Room

Technical Office

Green Room

DRESSING ROOMS

- All dressing rooms have wash basin, toilet & shower facilities
- No 1, 2, 3, & 4 adjacent to stage, IMB Theatre, 4 artists each
- No 5 first floor, IMB Theatre, 27 artists.
- No 6 first floor, IMB Theatre, 28 artists.
- A further 2 dressing rooms (6 artists each) may be available by request.
- A change room is also provided for technical staff.

STOCK ROSTRA

- Fully adjustable units, 1.0 metres by 2.0 metres,
with height adjustable in 200mm increments to 900mm*
(*At additional cost to hirer)

ORCHESTRA EQUIPMENT

- 1 x Conductor's score stand, adjustable
- 20 x Orchestra music stands with lights, adjustable
- 10 x Orchestra Music stands no lights, adjustable
- 13 x Removable sconce light
- 50 x Black Padded Orchestra chairs
- 3 x Padded Orchestra stools