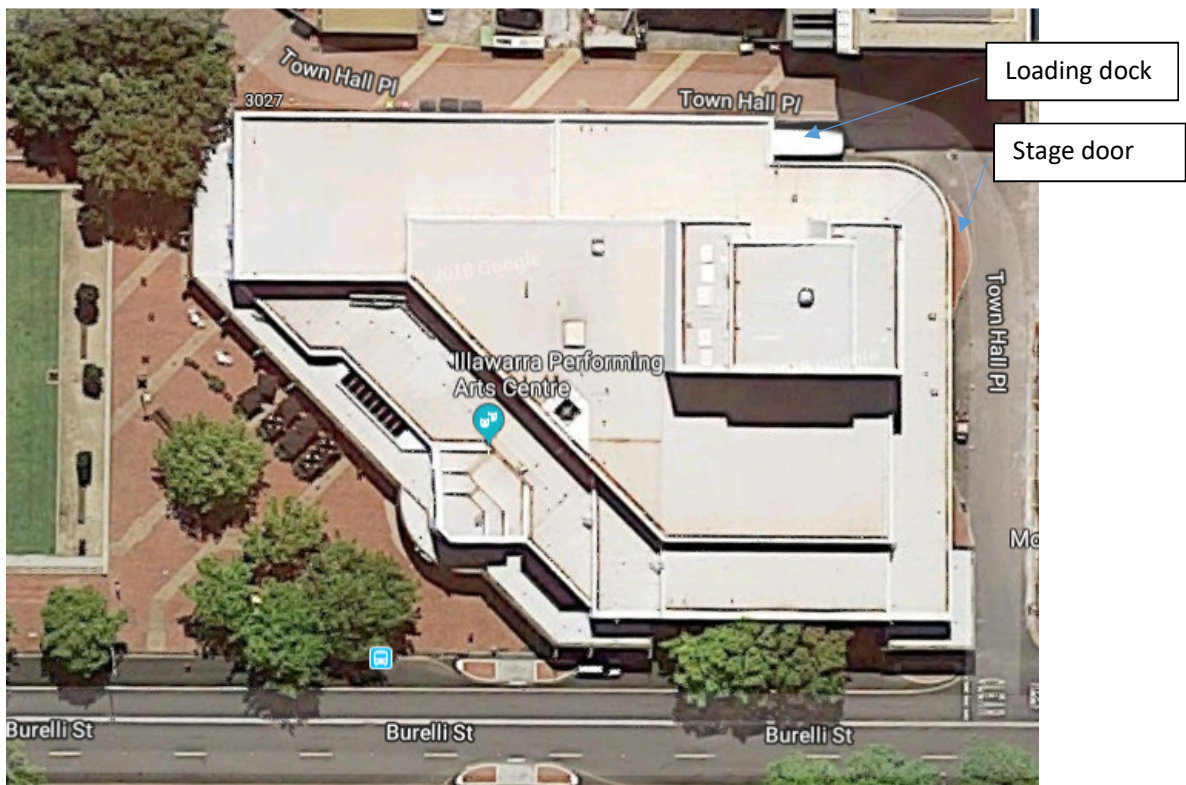


# ILLAWARRA PERFORMING ARTS CENTRE

## 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 the total capacity is 11 SEATS LESS. (This is typically “R16” – “20” & “S16” – “21”)

## STAGE SPECIFICATIONS

### Brief Stage Description

Unraked Proscenium Theatre, optionally the orchestra pit can be raised to the stage level to accommodate a forestage thrust.

Electro Mechanical Lift, control point located prompt side stage wall,  
Lift floor contains 3 traps for lighting, audio & power outlets.

### Stage Dimensions

#### Proscenium

Width	11.80 meters
Height	7.00 meters

#### Stage

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

#### Orchestra

Width	10.75 meters
Height	3.00 meters
Load Rating	7.50 tonne

#### operating height

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

### Orchestra pit (Trapezoid in Shape)

The Pit area can accommodate up to 30 musicians in comfort. The width at the front is 10.75 meters. The width of rear is 14.50 meters. The depth at the deepest point is 5.50 meters

### Stage Floor Surface

Hardboard nailed to Tallow Wood, full width, no level change, no rake. Load rating 7.5 kpa

### Forestage Access (Juliet's)

Doors either side of proscenium arch. 1 meter wide x 2.1 meters high.

## STAGE ACCESS

### Scenery

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

Direct from scenery/loading dock, via acoustic sliding doors Width 2.80 meters Height 6.90 meters  
Diagonal 7.50 meters

### Personnel

Stage Door is situated on the eastern side of the building off Town Hall Lane.

### Restrictions / Obstructions

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

## FLY TOWER DETAILS

### Dimensions

From stage level to underside of:

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

### Standard Batten

Length	15.40 meters
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 8.40m 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 centers, 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 meters chain, speed at 4 meters per Min, with position encoders. These hoists have double brakes and limits for safe rigging within a public space, according to the VLP Standards.

## CURTAIN TRACK

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

## STAGE DRAPERY

Type	Material	Colour	Width	Height	Quantity
Leg	Wool	Black	5.00 meters	8.00 meters	5 (pairs)
Leg	Wool	Black	6.50 meters	8.00 meters	1 (pair)
Border	Wool	Black	15.4 meters	3.80 meters	6
Tab	Velour	Black	8.3 meters	8.40 meters	1 (pair)
Curtain	Wool	Black	9.0 meters	8.40 meters	1 (pair)
Gauze	Cotton	Black			1
Cyclorama		White			2

## 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 Merrigong staff member must be in the area at all times the EWP is in use. EWP only to be used by trained personal.

## LIGHTING

### Lighting control

Desk	ETC GIO With 1 x 40 Submaster Wing
Control Channel	1000
Remote Riggers	Yes, IPAD w/ ETC RFR & OSCFR

### Dimmer Data Distribution

Total Dimmers	216 x 2.4kW LSC Teko Channels 24 x 5kW IDS Channels *3 extra roving 12ch LSC Teko Dimmer Racks available on request.*
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### Data Distribution

Data Splitter	
1 x LSC 10-way (6 x 5pin 4x3pin)	
1 x Jands DD8 8 X 5pin	
1 x Octo PathPort 8 x 5pin	

## STAGE LANTERNS

<b>PROFILES</b>				
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°	575w	26
Selecon	Pacific	Angle: 12°-28°	1000w	20
<b>FRESNEL'S</b>				
Selecon	Rama	All have barndoors	1200w	50
Selecon	Arena	All have barndoors	2000w	12
<b>PAR CANS</b>				
	Par 64	Angle MFL, NSP, VNSP	1000w	40
<b>CYC</b>				
Altman	Spectra CYC	200 RGBA	200W	10
<b>FOLOWSPOTS</b>				
Robert Juliat	Topaze1200		1200w	2
<b>MOVERS</b>				
MH7	Hybrid			10
<b>ADDITIONAL STOCK</b>				
James Thomas	4-Way Molefay	Par 36		10
	Parnel	MFL/NSP/VNSP	600w	2
Look Solutions	Unique 2	Hazer		2
Jem	ZR12	Smoke Machine		1
Martin Atomic	Strobe		3000w	3

## LIGHTING CONT.

### Patch

349 circuits are distributed throughout the theatre & are fully patchable via a main patch panel in the dimmer room, situated on level 3 between our 2 venues. Approx 10 – 15 from OP fly gallery level 1.

### DMX

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

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)

## LIGHTING PATCH OUTLETS

Lighting Patch outlets are situated in the following positions:

### FOH Lighting Bridge 1

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

### FOH Lighting Bridge 2

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

### FOH Lighting Bridge 3

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

### Procenium Booms PS & OP

Patch outlets (per side) 2 x 20 amp, 13 x 10 amp.

Throw to setting line at centre of stage is 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 Technical 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 WELL

### PS Floor Traps

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 Traps

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
Substage 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

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 Christie DWU555-GS

### Lens available

1 x 0935-1.22 Zoom G

1 x 2.9-5.5 Zoom G

### Projection Screen

Rear project: 16:9 (16ft x 9ft)

Front project: 4:3 (16ft x 12ft)

## 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

Supply is subject to availability, additional cost to hirers

<b>Monitor Control</b>	
1 x Allen & Heath iLive Digital mixing console with 48/24 Stage rack and T112 control surface	
<b>Spot / Fold back Speakers</b>	
<b>Qty</b>	<b>Description</b>
7	EV xw12A with 4 x Q99 Amps
4	FBT Jolly's
2	JBL PRX715
2	JBL PRX735
2	JBL EON610
<b>Microphones</b>	
6	Shure SM 58 Vocal Microphone
7	Shure SM 57 Instrument Microphone
4	Shure Beta58a Vocal Microphones
2	Shure Beta57a Multipurpose Microphone
4	Sennheiser MEB114B Boundary Mic
2	Audio Technica MB1K/C Switched Mic
1	Audio Technica 857 Gooseneck Lectern Mic
4	Dpa 4099p Piano Mics
2	Beyer Dynamic Tgi 53c
5	Beyer Dynamic Tgi 57c
2	Beyer Dynamic M88 Kick Drum Mic
2	Sennheiser E906 Ei. Gtr. Mic
6	Audio Technica 8033a Pencil Condensers
3	Audio Technica Pro45 Drop Mics
1	Shure Beta 87 Vocal Mic
<b>Direct Injection Box</b>	
4	Klark Technique DN100
1	McLelland Passive Di Box Pdb - 100
5	Behringer Active Di Box Di-100
3	Radial J48
<b>Radio Microphones</b>	
2	Shure ULX-P4 handheld System with SM-58 head
1	Shure ULX-P4 Bodypack transmitter with DPA 4066 to suit above receiver
7	Sennheiser G3 Radio Mic Systems with Handheld and Bodypack System (Rack mounted with paddle aerial distributor) and JAG imx6a headsets

## 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

### **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

FOH Bridge 3 – Follow spot position

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
  
- Separate male and female change rooms are also provided for technical staff

## STOCK ROSTRA

- Fully adjustable units, 1.0 meters by 2.0 meters, with height adjustable in 300mm increments to 900mm\* (\*At additional cost to hirer)

## ORCHESTRA EQUIPMENT

- 1 x Conductor's score stand, adjustable
- 10 x Orchestra music stands, adjustable
- 50 x Black Padded Orchestra chairs