

Monash University Performing Arts Centres

Robert Blackwood Hall

Technical Specifications



Updated April 2021

STAGE:

Stage Description:

The Robert Blackwood Hall is a 1598 seat Concert Hall, consisting of 1256 seats in the raked auditorium and seating for a further 342 patrons in the balcony. The stage is an open stage with 4 fixed risers built in. Primarily built for large orchestral performances, the acoustics are fantastic for any live entertainment. There is no proscenium or flown scenery capabilities.

The stage floor is Queensland Spotted Gum T&G hardwood flooring. Please note there is no nailing or screwing to the floor permitted.

Stage Dimensions:

Setting Line:	290mm (from D/S edge of cable trap.)
Centre Line:	9380mm
Stage drop to Auditorium	1180mm

Distance From:

SL to 1st Rise in floor	5170mm (<i>0.5m height of riser</i>)
SL to Organ Barrier	11400mm
SL to Back Wall	13300mm
CL to PS/OP wall DS	9380mm
CL to PS/OP wall US	8400mm

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

Auditorium:

Seating capacity:	1598
Stalls:	1256
Balcony:	342

12 Removable Seats to accommodate wheelchairs.

Orchestra Pit: No

A stage extension is available at an extra charge.
This increases the stage depth by 2.4m-4.8m.

FLYING FACILITIES:

Fly System: 5 x winches.
1 x Box Truss (3 Chain motors) above the auditorium.
1 x Box Truss (2 Chain motors) above stage apron – FOH PA only.

Operating Position HME controller on PS.

LX Lines 6.

Scenery Lines No.

Panorama Lines No.

Batten Type HME Pro Batten. Total WLL = 550kg
LX bars cannot be swung.

Drapery: 8 x 2.5m x 11m Black 450GSM wool.
2 x 13.5m x 1.5m Black 450GSM wool. (cannot be hung)

Access Equipment: 1 x A Frame Ladder 2.4m.

Staging Units:

Item	Length (mm)	Width (mm)	Height (mm)	Total
Large Riser	2100	600	185	4
Medium Riser	1500	300	185	14
Small Riser (steps only)	600	300	185	8

Item	Total
Lectern	2
Conductors Podium	2
Presentation Chairs	120
Music Stands	60
Musician Chairs	60

Loading Dock: Access is via Carpark behind Robert Blackwood Hall.

Door: 2200 (H) X 1800 (W) at Stage level.

Diagonal: 2600 (W).

LIGHTING:

Control: ETC GIO (2 x monitor + 1 x ELO touch screen)
House Rig: 2 Universes (A & B). Dimmers run on A, LEDs run on B Universe
License: 4 Universes – Venue only has 2x local 5pin outputs.
Spare House Channels: 350 Channels on Universe A, 150 channels on Universe B
Signal input: 1 – Control Room 1 – Bio Box
2– Auditorium – Via Bio Box
3– Top of Control Room 2
4– Centre of Balcony Railing

Data Output Locations: 1x DMX 5pin TV Truss
2x DMX 5pin Winch 1
2x DMX 5pin Winch 2
2x DMX 5pin Winch 3
2x DMX 5pin Winch 4
2x DMX 5pin Winch 5
1x DMX 5pin Top of Control Room 2 (Data Splitter Location)
1x DMX 5pin Centre of Balcony Railing
1x DMX 5pin Projection Room

Remote riggers available onstage: Yes (via iPad)

Dimmer Channels:

Total Dimmers: 126
Dimmers on battens: 84
Dimmers for Box Truss: 12
Dimmers in projection room: 30

Lighting Bar Positions:

Line #	Dist. from SL	Truss length	Venue Allocation	
1	10.4m	16.8m	FOH TRUSS (ABOVE ROW N&O)	Pro Batten 24 x dimmers 2400watt
2	4m	16.2m	LX Bar 1 Row G & F	Pro Batten 12 x dimmers 2400watt
3	.6m	14.2m	LX Bar 2 Row XX	Pro Batten 12 x dimmers 2400watt
4	3.5m	14.2m	LX Bar 3 Down Stage	Pro Batten 12 x dimmers 2400watt
5	8.7m	14.2m	LX Bar 4 Mid Riser	Pro Batten 12 x dimmers 2400watt
6	10m	14.2m	LX Bar 5 Upstage Organ	Pro Batten 12 x dimmers 2400watt
FOH	9.5m		PS BOOM 5.1M Above Stage level to Bar.	Max. 4 fixtures / outlets.
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Profiles

Make	Model	Angle	Detail / Accessories	Watt	Total
ETC	Source 4	19	Fixed Degree	750	3
ETC	Source 4	26	Fixed Degree	750	31
ETC	Source 4	15/30	Zoom Lens	750	14
ETC	Source 4 Junior	25/50	Zoom Lens	575	30

Fresnels

Make	Model	Detail / Accessories	Watt	Total
ETC	Desire D60's	LED Fixture, With Barndoors	NA	35
ETC	Source 4 Fresnel	With Barndoors	750	8
Selecon	Compact Fresnel	With Barndoors	1200	8
Strand	Pattern 243	No Barndoors	2000	5

Followspots

Make	Model	Angle	Detail / Accessories	Watt	Total
Patt 293	Followspot			2kW	1

Additional Lighting/Effects

Item	Model	Size	Detail / Accessories	Watt	Total
Mirror Ball		20inch	20" diameter ball with motor		1

Power:

- 3 Phase Outlets:**
- 2 x **32 amps** OP Stage.
 - 1 x **60 amps** OP External Wall (can be accessed via stage).
 - 1 x **32 amps** OP External Wall (can be accessed via stage).

Cabling: The Robert Blackwood Hall has limited stock of 240v extension cables and DMX cables to accommodate the venue's standard lighting rig. Any additional equipment will require additional cable stock to be sourced.

AUDIO:

Control Position:

Rear of Auditorium seating (18 Seats removed Row AA, BB & CC 20-25).

Alternate mix position may be available pending venue approval – please contact Technical Management to discuss.

Console:

DiGiCo SD12 (Version 12.2.1280)

(Auditorium FOH Position)

- Faders: 26 x 100mm touch-sensitive, motorised
- Screens: 2 x 15" LCD high – resolution touch screens
- Input Channels: 72
- Busses: Up to 36 plus masters Aux / Group busses with full processing Mono / Stereo / LCR
- Matrix: Up to 12 Input / 8 Outputs with full processing

DiGiCo S21 (Version 12.2.1280)

(Bio mix position – Please contact tech department if this position is required)

- 48 x Input flex-channels Mono/Stereo (equivalent of 96 DSP channels)
- 46 busses: 16 x flexi-busses Mono/Stereo (equivalent of 32 DSP busses), Stereo Master (2), Solo busses (2 stereo, 4 total), and 10 x 8 Matrix (8)
- 10 x Control Groups
- 16 x assignable 32 band Graphic EQs

FOH Speakers: NEXO GEO M6 System

Left Array

3 x Geo M6B
8 x Geo M620

Right Array

3 x Geo M6B
8 x Geo M620

Sub Cluster

6 x LS18

Centre Fill Cluster

6 x Geo M620

In Fill

2 x PS10 R2 (1 per side)

Balcony Delay

8 x Geo M620 (4 per side)

Front Fill

6 x Geo M620

Audio Foldback / Monitoring

2 x RCF ART 310A MK4

2 x Mackie ART 300A

Playback

Item	Make	Detail	Total
CD Player	Denon		2

**All other playback devices (i.e. laptops) must be supplied by hirer*

Microphones/DI

Make	Model	Use/Detail	Accessories	Total
Shure	58	Dynamic Vocal		6
Shure	57	Dynamic Instrument		4
Mann	M11	Pencil Condenser		*
Neumann	KM184	Choir Mics	Overhead rigging	4
Rode	NT5	Pencil Condenser		6
DPA	4099P	Piano Mic	Piano Clips	2
Shure	MX418	Lectern Microphone		4
Neumann	U87	Large diaphragm		2
BSS DI	AR-133	Active DI		*
Radial Multimedia DI	PRO AV2	Laptop Stereo DI		3

Item	Detail / Accessories	Total
Microphone Stand Tall	Boom arm	12
Microphone Stand short	Boom arm	8

Audio Cable:

The Robert Blackwood Hall has limited stock of 3-pin XLR cable in various lengths. There is also a limited stock of various audio adapters and connectors. All external equipment that may require specific adapters or connectors (i.e. instrument leads) are to be supplied by the hirer

Notes:

Audio archival recording available on request. (*Additional charge*)

Additional audio equipment required (e.g. Radio microphones etc.) may be available by prior arrangement with Technical Management at an additional charge.

AUDIO VISUAL:

Projector Position: Bio Box (Balcony) and Lx Bars 1,2 & 3.

Operating Position:

Control Room 2 is located PS stage above Stage Managers Desk and has dedicated patching for all AV needs.

Projectors:

Type	Detail / Accessories	Total
Panasonic DLP 8K	***Extra charge ***	1
SANYO 15K	**Extra Charge**, HD-SDI Input Available	1

Screens:

Front projection 8m x 6m

(cannot be lowered during a show or with personnel onstage as it is independently hung.)

Front Projection 4.5m x 3m (dead hung upstage, availability on request) check dimensions

AV Playback Equipment:

Equipment	Model	Detail / Accessories	Total
DVD Player	Pioneer		1
Vision Switcher	Black Magic Designs ATEM Television Studio HD		1

Show Relay views:

Prompt Corner

OP Corner

Foyer

Dressing Rooms

Audio control

Lighting Control Room

Cabling

The Robert Blackwood Hall has a limited supply of HDMI and SDI cable. If specific lengths or high quantities of HDMI or SDI cabling is needed, this should be discussed with Technical Management before arrival in the venue.

BACKSTAGE:

Stage Managers Desk

Stage Managers desk is located in Prompt Corner.

Playback screen is mount on the side of the Prompt Corner wall with Phone.

Talkback

Master Unit	ClearCom Head Station
Total headsets	6x BeyerDynamic DT108
Total comms packs (wired)	7x ClearCom RS-601
Talkback patching located at:	OP Wing Stage Managers Desk LX Ops Position Audio Ops Position Control Room 2 Organ Position Top of Ramp

Paging / Show relay

Paging to the dressing rooms is available from the stage managers desk. Show relay is distributed to all dressing rooms and green room. Each room has an individual volume control.

Dressing Rooms

Dressing Room	Capacity	Toilets	Shower	Details:
Mens	15	2	1	8 Chairs
Douglas menzies	2	1		1 Lounge Chair, Chaise & Hollywood Vanity
Ruth Alexander	2	1		2 Lounge Chairs, Stool & Hollywood Vanity
Womens	15	2	1	4 Chairs & 1 Chaise
Common Room	30 +			4 Large Tables, Urn, 20+ Chairs & Lounge

Production Facilities:

Tea / Coffee facilities	No, Urn Only
Fridge / freezer	Yes.
Microwave	Yes.
Running water	Yes.
Washing Machines	No.
Dryers	No.
Drying rooms	No.
Iron / ironing board	Yes.
Clothes racks	Yes.

Stage Door

Stage Door is located along the side of Robert Blackwood Hall between front doors and Loading Dock. Stage Door is unlocked for duration of hire time unless organised prior to engagement. Access during bump-in/out is controlled by production company staff/management, not venue staff. Venue staff take no responsibility for Stage Door security during hire.

Orchestral

1 x Steinway 9' Concert Grand piano (2010)

1 x Steinway 9' Grand piano (1980)
is included)

(*Tuning

1 x Sir Louis Matheson Pipe Organ.
(3097 pipes, 4 keyboards (manuals), 30 pedals, 45 stops).

Warm Up Space:

There is 1 small space OP side of stage in the Dock area, otherwise down stairs in the large common area is the best place for musical or performance rehearsal spaces. Down stairs area can accommodate up to 40 people which does not include dressing rooms which come off the common room area.

VENUE:

Venue Address

Monash University Clayton Campus,
49 Scenic Boulevard, Clayton 3800 VIC.
Building 2.

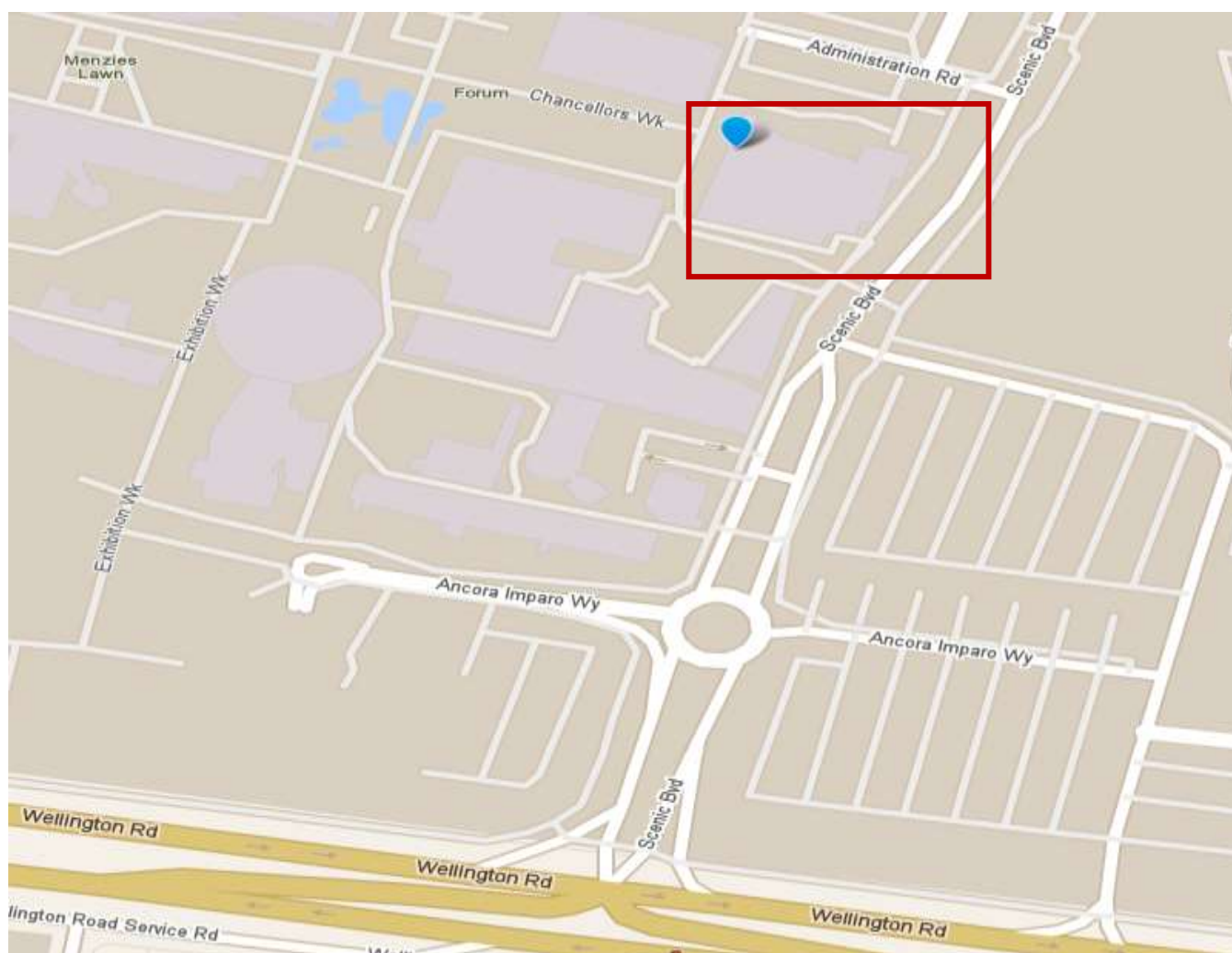
Staff Contacts

Technical Manager: Mr. Matthew King.

Phone number: (03) 9905 1689

Email address: matthew.king@monash.edu

Website: <https://www.monash.edu/performing-arts-centres/>



Venue Plans:

<https://www.monash.edu/performing-arts-centres/our-venues/robert-blackwood-hall/>