

Technical Specifications Elisabeth Murdoch Hall



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Venue Information

Elisabeth Murdoch Hall is a modified shoebox shaped hall based on the classic proportions of the Vienna Musikvereinsaal. The hall has been specifically designed and built for the performance of acoustic music, but is also suitable for ensembles requiring amplification and corporate conferencing. The auditorium has a raked stalls level and a rear raked circle with split side balconies.

This document provides details of the services and equipment available from the Melbourne Recital Centre for the Elisabeth Murdoch Hall. Please refer to your contract for details of included services and equipment. Any services and equipment not included in your hire agreement will incur an additional charge, please contact your assigned Concert and Event Manager to discuss requirements.

Any additional equipment required but not specified in this document can be hired in through the Melbourne Recital Centre's preferred suppliers.

Please note that information provided in this document is subject to change. The Melbourne Recital Centre is happy to provide production advice specific to your requirements at any point in order to help facilitate production planning.

Auditorium Seating Capacity

The EMH auditorium consists of two levels of tiered seating: stalls and circle with side split balconies. The maximum seating capacity is 1000, with the optional stage extension maximum capacity is 915.

Stalls	without stage extension or orchestra pit	712 seats
	with stage extension or orchestra pit	617 seats
Circle		288 seats
Total		1000 seats

Utilising the FOH sound desk necessitates the removal of 12 seats at the rear of the stalls. Up to 34 seats total can be removed to accommodate additional equipment if necessary.

Accessibility

The auditorium is wheelchair accessible via the Front of House lift, to both Stalls and Circle levels. The stage is accessible via the goods lift.

Assisted Hearing Facility

An Ampetronic Induction Loop system is available to the Stalls. Patrons are asked to turn their hearing aid to the T switch to pick up the program.

Loading Dock and Stage Access

Equipment is brought into the building via the loading dock accessed via laneway from Sturt St, Access to the laneway is restricted and drivers must make themselves known to Stage Door personnel via an intercom located at the laneway entrance.

Please note it is not possible to back vehicles up to the loading dock doors, vehicles must park perpendicular to the dock door and items can be loaded onto a dock lift to access the dock, in some circumstances the dock lift can be used as a static ramp way from the back of a truck into the dock.

The stage is located one level above the Loading Dock and access is generally via a goods lift, size and weight limits apply, from the Goods lift to the stage in a flat surface to either OP (stage right) or PS (stage left). There is a limited amount of wing space for storage of items

Forestage Lift

The EMH is equipped with a forestage lift which allows for the bumping in of large items such as scenery or large quantities of production equipment from the dock / sub stage level. The lift can be used in a number of positions to act either as a stage extension or an orchestra pit. Its standard position is at stalls level where it forms the first three rows of audience seating. For practical use in any other position 95 seats need to be removed.

Height and Weight Restrictions.

Vehicle Height Clearance	N/A dock parking is open air	
Dock	Height	1000mm
	Door Width	3370mm
	Door Height	4000mm
Dock Lift:	Width	2800mm
	Length	3500mm
	WLL	4000kg
	Max height from ground	1500mm
Goods Lift	Width (internal)	2880mm
	Length (internal)	4000mm
	Height (internal)	2600mm
	Door Opening	2200mm
	WLL	4500kg
Stage Wings Door	Width	2570mm
	Height	2700mm
Forestage Lift	Width	3000mm
	Length	17000mm
	Door Width	2680mm
	Door Height	2400mm
	WLL	6000kg

Vehicle Access

Access to the Loading Dock for pre-event deliveries is available during office hours 0830 – 1730, when Stage Door is attended. Loading Dock access required for Event bump in/out or for deliveries outside office hours is available, please contact Melbourne Recital Centre to discuss options.

Parking

There is normally no parking available on the MRC site. There are several parking garages located nearby as well as metered on-street parking. Vehicles must leave site once unloaded.

Workshop Space

MRC has limited workshop facilities. MRC staff may be able to assist with emergency repairs.

Storage Space

MRC has very limited storage space. Some items may, by prior arrangement, be stored on the MRC site.

MRC takes all care, but no responsibility for the loss or damage of any presenters' property, including personal belongings. Presenters are encouraged to refrain from bringing personal belongings not required for their event.

Risk Management

Please note that:

- After completion and assessment of your event requirements form it may be required to undertake further detailed risk assessment. Your assigned Concert and Event Manager and suitably qualified MRC staff will be able to assist in this process.
- Equipment may be subject to safety checks by MRC Staff.
- All mains connected electrical equipment must have a current compliance tag from a suitably qualified person. Qualified MRC staff may, if time allows, be able to provide a compliance tag for the duration of your tenancy only. A small fee will apply per item checked. Untagged equipment will not be permitted use in the MRC.
- Overhead equipment must be rigged by a qualified rigger using appropriately certified equipment, supervised by qualified MRC staff.
- Additional equipment to be rigged overhead must have safety chains or similar precaution.
- Scenery, curtains and large props must be of a fire resistant material or treated with fire retardant, certification of such treatment must be produced on request.

Stage Specifications

Stage Dimensions

The EMH stage is an open concert platform (it does not have a safety curtain). Dimensions are approximate and vary with wall joinery; critical measurements should be confirmed on site. The setting (zero) line is drawn across the downstage edge of the main stage

Width	downstage	17000mm
	upstage	14000mm
Depth	from setting line	9000mm
	from downstage of extension	12000mm
Ceiling Height	above setting line	13050mm
	above LX4	9500mm
	above LX5	5660mm
	above stage extension	16700mm
Stage Height	above auditorium floor at Row A	1000mm
Throw	followspot	32500mm
	rear stalls to downstage edge	21580mm
	rear circle to downstage edge	29300mm

Stage Floor

Surface	Matte clear polyurethane on compressed bamboo	
Rake	0° (flat)	
Material	Compressed Bamboo	
Wall surface	satin matte clear polyurethane on hoop pine ply	
Material	Hoop Pine Ply	
Stage Loading	Distributed	10,000kg/m ²
	Point Load	6000kg

Care of Timber Surfaces

- The use of tape on the stage is restricted to electrical, cloth (Tenacious) and cloth spike tapes. Nashua 357 tape is NOT permitted.
- It is not permitted to drill into or paint the stage floor **including use of cello or double bass spikes**.
- Equipment and Scenery can be weighted or clamped.
- A floor covering may be laid at the discretion of the venue.
Any damage to the stage surface or walls during tenancy shall be the responsibility of the Presenter.

Stage Machinery

Control

All hoisting and lifting systems within the EMH have a common control system an E-stop on one system will shut down all hoists and lifting equipment and require a reset.

Lighting Bars, Backing Battens, Chandelier Hoists, Chain Hoists and Acoustic Banners are controlled via a custom Jands control unit located in the OP side stage

Speaker hoists are controlled via an ASM Genesis controller in the OP Side Stage, there are a number of preset positions for speakers, please see the Audio section for further details

The Forestage lift is controlled via a Jands pendant control in the OP side stage.

The Microphone winches are controlled from a Hyfax MHL R21 Located in the PS Side Stage.

For safety reasons hoisting and lifting gear installed in the MRC may only be operated by suitably qualified MRC staff.

Stage Extension and Orchestra Pit

The forestage lift can be used as a stage extension or orchestra pit; this necessitates the removal of 95 seats from the stalls.

Stage Extension	width	17000mm
	depth	3000mm
Orchestra pit	width	17000mm
	depth	4000mm (under hangs main stage)
	height below stalls	1600mm
	height below stage	2600mm

Flying Facilities

The EMH has three backing battens located approximately 4800mm upstage. Each batten is approximately one third the width of the stage. These battens are unsuitable for flying during performance and fly independently of each other. Each batten has a lifting capacity of 250Kg.

LX Bar 5 can be used to fly scenery; Width is 13300mm and a max fly height of 5600mm. It has a lifting capacity of 500kg. It is unsuitable for flying during performance.

Additional Rigging

The EMH has 16 touring rig penetration points which allow for the rigging of truss from chain hoists. Venue plans with positions are available on request.

In-house are 4 ASM OTTO 1000B BGV-C1 1Tonne chain hoists and the equipment necessary to rig them from any of the 16 touring points mentioned. Note that these hoists cannot be integrated into other control systems and MRC's in house system is unable to control additional hoists. If required, placement of the hoists will need to be discussed in advance and might incur additional charges.

MRC owns a small selection of 300mm tri-truss in 2.5m & 3m lengths (total of 11m) and various lengths of black 300mm flat truss.

Please note that any plans for utilising any hoists must be signed off and work carried out by suitably qualified persons, supervised by MRC technicians.

Stage Equipment

Drapery

- Black drapery sufficient to cover the stage walls to a height of 9000mm on Stage Left, Stage Right and upstage.
- 8 White legs, Filled Cloth, 2000mm wide by 10,000mm high
- 6 Red legs, Velours, 50% fullness, 3500mm wide by 10,000mm high
- 2 Black borders, Wool, 50% fullness, 8000mm wide by 6500mm high

Carpet and Tarkett

MRC is able to cover the entire EMH stage including the Stage Extension with black wool carpet or black tarkett. A small piece of Black/White reversible Harlequin dancefloor (4150mm x 2000mm) is available for use with flamenco, tango and tap dance acts.

Orchestral Furniture

There is sufficient equipment to furnish a large orchestra including, adjustable orchestral chairs, bass stools, music stands, adjustable rostra, cello risers and conductor's podium.

Rostra

Wood

- 20 Stringybark topped Showtrek risers (2000mm x 1000mm) adjustable in height from 200mm to 1000mm in 200 mm increments. Please note that not all risers can be set to the same height.
- 8 corner risers of various dimensions that can be combined with the standard risers.
- 1 Half Riser (1000mm x 1000mm)
- 1 String Riser (660mm x 660mm)
- 1 Harp Riser (1750mm x 840mm)
- Showtrek risers are typically used in wood stage setting, no black carpet or tarkett.

Legs for Showtrek risers

- 200mm = 30 (7.5 decks or 6 + 2 small wedges)
- 400mm = 60 (15 decks)
- 600mm = 44 (11 decks)
- 800mm = 28 (7 decks)
- 1000mm = 28 (7 decks)

Matt Black Megadeck

- Various heights available; 200mm, 450mm and 600mm
- 14 Megadeck $\frac{3}{4}$ risers (L1800mm x W1200mm)
- 2 Megadeck $\frac{1}{2}$ risers (L1200mm x W1200mm)
- 6 Megadeck roll-away risers (L2400mm x W1200mm)
- 2 Treads (W1200mm x H400mm)
- 1 Treads (W1200mm x H600mm)

Carpet Top Black

- 2 Megadeck full risers (L2400mm x W1200mm)
- 2 Megadeck $\frac{1}{2}$ risers (L1200mm x W1200mm)
- 4 Megadeck $\frac{1}{4}$ risers (L1200mm x W1200mm – Triangle)

Recital Instruments

The EMH houses the following instruments for use on stage:

- Two Steinway D Grand Pianos, tuned to A441
- Yamaha S6 Grand Piano, tuned to A441
- Double manual Flemish-style Harpsichord (after Ruckers)
- Hubbard single manual Harpsichord
- Klop Chamber Organ (4 stop)
- C4 Fortepiano (after Walter & Sohn), tuned to A430
- Yamaha S90-ES Synthesizer

Use of these instruments is not included in the hire of the venue and is at the discretion of Melbourne Recital Centre.

Tuning is provided by the MRC's approved tuners only. Mechanisms of instruments shall not be tampered with (or "prepared") in any way without the permission of Melbourne Recital Centre. No food, liquid or other items are to be placed on the instruments.

Stage Lighting

Main Control

Control in the EMH is provided by:

- GrandMA 2 light
- Backup MA onPC
- iPad remote access

Protocol

Standard: MA-NET2 to MA DMX Nodes

Alternative: sACN to ETC DMX Nodes

- Universe 1: House LX Generics
- Universe 2: House LX Moving Fixtures (Wireless DMX)
- Universe 3: Spare/Guest

Alternative control

- ETC Eos 4000 console w ETC EOS RTU backup
- By request only and pending availability

Additional Wireless DMX systems are not permitted to be used in the venue.

The console is usually located in the control room for performances; however the console can be located in the rear stalls, this necessitates 12 seats being removed from sale.

Other consoles are able to be integrated into the EMH control system if required.

For the purposes of plotting the console can be relocated to a production desk in Stalls Row N.

Please advise in advance and allow for additional setup time if you intend to relocate the lighting console.

Dimmers

Dimming in the EMH is provided by:

- 168 ETC Matrix Mk II iSine 3kW Dimmers
- 30 ETC Matrix Mk II iSine 5kW Dimmers
- 18 ETC Matrix Mk II iSine 2.4kW Relays

Dimmers are permanently connected to outlets throughout the venue.

3 Phase Power

All general and dimmed power supplies are 240V AC @ 50Hz. Additional 40A 3 phase power (Wilco) is available on the EMH motordeck, PS&OP and sub-stage areas. Power distribution plans available on request.

Standard Concert Lighting

The Standard Concert Lighting is designed to provide optimum coverage of the stage for soloists and orchestral performances and events that only require basic lighting. It incorporates an Open White, Warm (134), Blue (Apollo Dichroic 4250) and Gobo Wash.

Position	Lamps	Notes
Stage	10x Selecon Arena PC 2kW	Open White Wash

	12x ETC Source 4 Multipar 750W	Warm (Lee Filters 134) Wash, Colour can be changed by request
	12x ETC Source 4 Multipar 750W	Blue (Apollo Dichroic 4250) Wash, Colour can be changed by request
	4x ETC Source 4 Zoom Profile 750W 15 - 30 degree	Small Ensemble Specials, Half Hamburg Frost (Rosco Supergel 119) Cannot be refocused or recoloured
	4x ETC Source 4 Zoom Profile 750W 15 - 30 degree	Large Ensemble Specials, Half Hamburg Frost (Rosco Supergel 119) Cannot be refocused or recoloured
	4x ETC Source 4 36 degree Profile 750W	Gobo wash (Lee Filters 107)
	6x ETC Source 4 Profile 26 degree 750W	Upstage face light, Half Hamburg Frost (Rosco Supergel 119) Cannot be refocused or recoloured
	6x Selecon Rama Fresnel 1.2kW with Wybron Coloram IT scroller	Stage colour wash. Can be refocused by request.
	4x Apollo Rightarm with ETC Source 4 19 degree Profile 750W and DMX Iris	Automated specials
Stage Extension	7x Selecon Arena PC 2kW	Open White Wash
	6x ETC Source 4 Multipar 750W	Warm (Lee Filters 134) Wash, Color can be changed by request
	6x ETC Source 4 Multipar 750W	Blue (Apollo Dichroic 4250) Wash, Color can be changed by request
	2x ETC Source 4 26 degree Profile 750W	Gobo wash (Lee Filters 107)
Panorama Bars	10x Selecon Arena PC 2000W	Side Wash, 5 Per Side, May be coloured by request
Bridge 1*	6x ETC Source 4 Profile 10 degree 750W	Specials. Please note if LX1 is in use Bridge 1 will not get a clear shot of the stage.
	2x ETC Source 4 Profile 14 degree 750W	Specials. Please note if LX1 is in use Bridge 1 will not get a clear shot of the stage.
Bridge 2	6x ETC Source 4 Profile 5 degree 750W	Specials
	10x ETC Source 4 Profile 750W 10 degree	Stage Face Light, Quarter Hamburg Frost (Rosco Supergel 132) Cannot be refocused or recoloured
	10 x ETC Source 4 Profile 14 Degree 750W	Stage Extension Face Light. o/w
Box Booms*	2 x ETC Source 4 Zoom Profile 15 - 30 degree 750W	Small Ensemble Specials, Quarter Hamburg Frost (Rosco Supergel 132) Cannot be refocused or recoloured
	2 x ETC Source 4 Zoom Profile 15 - 30 degree 750W	Large Ensemble Specials, Quarter Hamburg Frost (Rosco Supergel 132) Cannot be refocused or recoloured

*Shot from Bridge 1, can be blocked when PA and/or LX 1 is in use

Additional Concert Lighting

The following fixtures are available for hire (pending availability); extra focussing time might be required.

Fixtures/Generics	Amount	Notes
Martin MAC TW1 80V	6	Standard position banner bars. Narrow Lens available.

Martin MAC Viper Profile	6	Standard position LX4.
Martin Rush MH-6 Wash	6	Stock is shared between venues, please check availability in advance.
ETC Desire D40 Vivid	18	25 degree and 45 degree frost filters available. Stock is shared between venues, please check availability in advance.
ETC Source4 ~ 15/30 zoom	12	750W
ETC Source4 ~ 14 degrees	4	750W
ETC Source4 ~ 19 degrees	16	750W
ETC Source4 ~ 26 degrees	8	750W
ETC Source4 PAR (VNSP, NSP, MFL, WFL)	42	750W
Selecon Rama PC	9	1200W
Selecon Rama Fresnel	24	1200W
Selecon Arena PC	1	2000W
Selecon Acclaim Fresnel	2	650W
PAR 16 'Birdie'	20	50w - 240V and 12V versions available
Look Solutions Unique 2.1 Hazer	2	
Jem AF-1 DMX Fan	2	
LSC 12 way dimmer rack	2	

* Shot from Bridge 1 can be blocked when PA and/or LX 1 is in use

Followspots

2 Robert Juliat 'Topaz' 1200W MSD Followspots with manual colour changer permanently located either side of the control room. The angle to the front of the stage is approximately 22 degrees, the throw is 32.5m. MRC's Followspots cannot be relocated and there is no accommodation for additional followspots in the venue. Use of the followspots is at additional cost.

Houselights

When the venue is in 'Event Mode' Houselights are controlled via the Lighting Console. There is a limited capacity for isolating areas of houselights.

Music Stand Lights

- Up to 33 hardwired sconce lights, dimmable.
- Up to 12 battery powered sconce lights, non-dim.
- 2 Conductor stand lights

Colour

A contemporary lighting rig, including several moving light fixtures, is available for use in the EMH. Floating equipment includes 18 ETC Desire LED spots and Martin Rush MH-6 moving fixtures. Please note that the contemporary lighting rig, the LED spots and the MH-6 units are not included in the standard hall hire, costings available on request. MRC has a limited stock of gels available for the generic lighting rig, but can obtain (on request) additional colours.

Additional Equipment

A range of additional equipment is available subject to the demands of other venues within MRC. Availability is not guaranteed, so all requirements must be discussed well in advance of the event. Additional equipment can be hired in on a presenter's behalf.

Effects

Smoke, Fog and Haze

MRC allows use of smoke, fog and haze effects by prior arrangement. Equipment must be pre-approved for use in the venue, in particular when used in conjunction with MRC's Keyboard Instruments. Your Concert and Event Manager will be able to provide you with a list of approved smoke, fog or haze devices. MRC owns 2 Unique2 Hazers and 2 Jem AF-1 DMX controlled fans. Oil based smoke/haze is not allowed.

Strobe

Strobe use is permitted, notices to be displayed in foyer.

Naked Flame, Pyrotechnics and Lasers

Naked flame, pyrotechnics and lasers may be used with prior approval by MRC. Always discuss requirements well in advance to ensure that all legislative and safety obligations have been met.

Audio

A full audio setup can be provided for Presenters wanting to present an amplified concert, including a Front of House audio console and a side of stage monitor console. MRC have in-house engineers able to provide a complete setup and operation of these events.

Please note that any amplified concert in the EMH will be required to use MRC's public address system only. Under no circumstances will any external PA be permitted to be used in the EMH by MRC, and this is a condition of entering into a contract with MRC. Use of additional external equipment is permitted at the discretion of MRC.

Speaker system

Two standard configurations are available, pending on requirements:

Option A

Position	Equipment
L/R Arrays Flown	7x d&b Audiotechnik T-10 per side
Centre array	8x d&b Audiotechnik T-10
L/R Stage	2x d&b Audiotechnik T-10 per side, stacked on subs
Subs	1x d&b Audiotechnik B-4 Sub per side, DSL/R
Front Fill	6x d&b Audiotechnik E0
Lower Balcony Fill	1x d&b T-10 per side

Option B

Position	Equipment
L/R Arrays Flown	7x d&b Audiotechnik T-10 per side
Centre array	8x d&b Audiotechnik T-10
L/R Stage	1x d&b Audiotechnik V12, 2x d&b Audiotechnik V8 per side, stacked on J-Sub DSL/R
Infill L/R	1 x d&b Y7P per side
Subs	1x d&b Audiotechnik J-Sub per side, DSL/R
Front Fill	4x d&b Audiotechnik T-10
Lower Balcony Fill	1x d&b T-10 per side

PA Management

Time alignment, EQ and Routing is managed by 2 Meyer Galileo 616AES units. Settings can be (remotely) accessed at FoH, stalls and at PS wing.

Control

Permanently installed in Prompt side wing, for basic amplification requirements only.

- Yamaha LS-9 Digital Mixing Console

Equipment available for the Stalls FoH mix position:

- DiGiCo SD5 Mixing Console
- DiGiCo SD11 (when available)

- Our FOH rack includes:
- Digico SD-Minirack via coax Madi
- Lexicon PCM 96 Stereo Reverb/Effects Processor
- TC M3000 Studio Reverb/Effect Processor
- 2 x Empirical Labs ELM-8X Distressor Compressors
- Avalon VT-747SP Stereo EQ & Compressor
- Tascam CD-01U PRO CD player

We also have in stock (Pending availability)

:

- Klark Teknik DN370 Stereo Graphic EQ (2ch)
- TC Electronic D-two Digital Delay
- 2 x Focusrite RED 3 Classic Dual Compressor/Limiter

Equipment available for PS monitor mix position:

- DiGiCo SD8 Mixing Console
- DiGiCo SD11 (when available)

Monitors/Wedges/In-ears

- 12 D&B M4 wedges, powered by D12/D80 amps
- 2 Channels PSM1000 system (Frequency band J8E)
 - System comprises 1x P10T dual transmitter & 2x P10R bodypack receivers.
- MRC does not provide in-ear buds.

On request pending availability

- 8 Meyer UPJ-1P powered monitor
- 8 Meyer UPM-1P powered monitor
- 2 Meyer UM-1P powered monitor 12"
- 4 Meyer UMS-1P powered sub

Microphone Stock

Condenser	Quantity
AKG C414B	4
Neumann KM184	8
Neumann KM105	6
Shure B91A	1
Sennheiser E901	1

Audix Micro D	5
DPA 4023 Cardioid Compact	12
DPA 4027 Wide Cardioid Compact	4
DPA 4051 Omni Compact	4
DPA 4099 w violin mount	2
DPA 4099 mount only for Dbass and Brass	1 ea
DPA 4060 Miniature Omni (Beige)	4
DPA 4061 Miniature Omni (Black)	6
DPA 4066 Omni Headband (Beige)	3
DPA 4006-TL Omni	2
DPA Compact Active Pole for 4023	8
DPA Flamingo Grand Twin Double Pole	4
ATM 350 (instrument clip)	2
AT 4050	4
Neumann U89	2
Ribbon	
Royer R-122 Ribbon Microphone	2
Dynamic & DI	
Shure SM58	8
Shure SM58 Switched	2
Shure B58	6
Shure SM57	6
Shure B57	8
Shure B56	4
Shure B52A	1
Beyer M88	2
Sennheiser E935	6
Sennheiser MD421	6
Sennheiser E906	2
EV RE20	1
Audix D4	4
AKG D112	1
BSS AR133 DI	10
Radial JDI (passive)	2
ARX DI-Plus	4
ARX DI-Plus 2 Stereo	4
Avalon U5	2
RX	
Shure UR1 Bodypack*	6
Shure UR2 Handheld w SM58 Head*	6
Shure KSM9 Head for UR2	2
Shure B58 Head for UR2	4

* 3 x Shure UR4D receivers, total maximum of 6 channels. (Frequency band J5E)

Audio Visual

Projectors

Christie Roadster HD20K

Output: 18,000 ANSI Lumens

Contrast: 1600-2000:1 Full field, 650:1 ANSI

Native chip resolution: 1920x1080

Supported resolutions: HDTV formats VGA through QVGA (2048 x 1536)
Inputs: Analogue, DVI, SD/HD-SDI, Video Decoder
Lens: ILS 2.8 – 4.5:1 SX+ /2.6- 4.1:1 HD

Panasonic PT-DZ870

Output: 8,500 ANSI Lumens
Contrast: 10,000:1
Native chip resolution: 1920 x 1200
Supported resolutions: VGA through 1080p
Inputs: Analogue, DVI, SD/HD-SDI, HDMI
Lenses: PANETDLE085 SHORT ZOOM LENS (0.8-0.1:1)
PANETDLE250 STANDARD ZOOM LENS (2.3-3.6:1)
STANDARD LENS (1.7 -2.4:1)

Primary Projection Screen

12m x 6.75m perforated screen (16:9 ratio), with masking 9m x 6.75m (4:3 ratio)

Alternative Projection Screens

The following fast fold front projection screens (freestanding or flown) are available:

Large	6.1m x 3.4m (20' x 11'3") - 16:9 ratio
	6.1m x 4.6m (20' x 15') - 4:3 ratio
Medium	3.65m x 2.1m (12' x 6'9") 16:9 ratio
	3m x 2.3m (10' x 7.5') 4:3 ratio
Small	2.4m x 1.8m (8' x 6') 4:3 ratio

Projector Rigging Points

Due to the lack of depth between the screen line and the back wall front projection only is recommended from the control booth on Level 3 (MRC Christie projector).

Video Distribution

Details available on request.

AV Equipment List

Description	Specifications	Quantity
9" Sony SDI video monitor LMD940W		1
Macbook Pro w Qlab, Powerpoint		2
Mac Mini (specs on request)		2
Vision switcher Barco DS-200		1
Vista Spider video processor 344		1
Vision Switcher Roland Edirol V40 HD		1
DVD player (Pioneer DVD-V8000)		2
20" Monitor		3
24" Monitor		6
55" Monitor		4
Panasonic robotic HD cameras (AW-HE100E)		3 (2 floating)
Panasonic P2 HD camcorder (AG-HPX172EN)		1
Panasonic V750 Full HD Camcorder		1
Iconix HD- RH1 Camera		1
Christie Roadster HD20K Projector		1

Panasonic PT-DZ870EK Projector		1
Blackmagic HDMI to SDI converter		4
Blackmagic SDI to HDMI converter		4
HDMI splitter 1 in 4 out		2
DVI splitter 1 in 4 out		2

Recording - Audio and AV

Options available on request, including a fixed show relay recording of your event onto Mpeg4 format.

Outside Broadcast

A variety of interconnect and cable penetration options are available from EMH to OB position in the rear laneway. 3Phase power is available, 2 x 63A on Wilco & CEE, and 2 x 40A on Wilco

Communications

Closed Circuit Television

Longview

A colour image of the EMH stage is distributed to the Stage Managers Desk, Wings, Back of House Areas, Dressing rooms, Green room and Rehearsal room, MRC and Visiting Company Offices, Control Rooms and Foyers. Longview can be sent to most parts of the building by arrangement.

Shortview

A Conductor shot from Upstage of the Prompt Side Panorama Bar is distributed to the Stage Managers Desk. Shortview image can be sent to other parts of the building by arrangement

Stage Managers Desk

The Stage Managers Desk (SMD) is located in Opposite Prompt (OP) Wing. It can be relocated to Prompt Corner by request. As well as long and short view monitors, zoned paging system for front and back of house and headset communicators' master station. Cue light system by prior request, pending availability.

Headset Communications

Clear-Com wired and wireless belt packs are available, the system is fully integrated and operates across 2 channels. Wired headset communications can be distributed to most back of house areas.

Wired: Clear-Com IF4W4

Wireless: Clear-Com Freespeak

Backstage Facilities

Hire of the EMH comes with the exclusive use of the 4 dressing rooms, Green Room, Rehearsal Room and Visiting Company Office for the period of the tenancy. Extra space might be available, by prior arrangement.

Dressing Rooms

Suited for Conductors and Soloists, Dressing Room One has a lounge area, balcony, writing/dressing table, ensuite bathroom, television, stereo system and telephone. Internet access is available on request. A Yamaha Model S6 Grand Piano (tuned to A441) can be placed in this room subject to venue requirements and additional costs. This room can alternately be used for a large group (up to 10) of performers.

Dressing Rooms 2 to 4 are most suitable for one or two performers each. Each of these rooms has a writing/dressing table & mirror, comfortable chair, ensuite bathroom, television and telephone. Internet access is available on request. Dressing Room 4 has an upright piano for practise/warm up. This room can alternately be used to accommodate up to 5 performers.

Rehearsal Room

The Rehearsal Room can be used as a Dressing Room for up to 15 performers. It has an upright piano for practise/warm up. Stand Mirrors, Costume Racks, table and chairs can be provided on request.

Green Room

The Green Room is available for the use of Presenters. It has comfortable couches, a television, sink, microwave, fridge, and zip tap for boiling water. On request tea, coffee and other catering can be served here. Alternately it can be used as a dressing room for 10 performers; Stand Mirrors, Costume Racks, table and chairs can be provided on request. Please discuss your requirements with your assigned Concert and Event Manager.

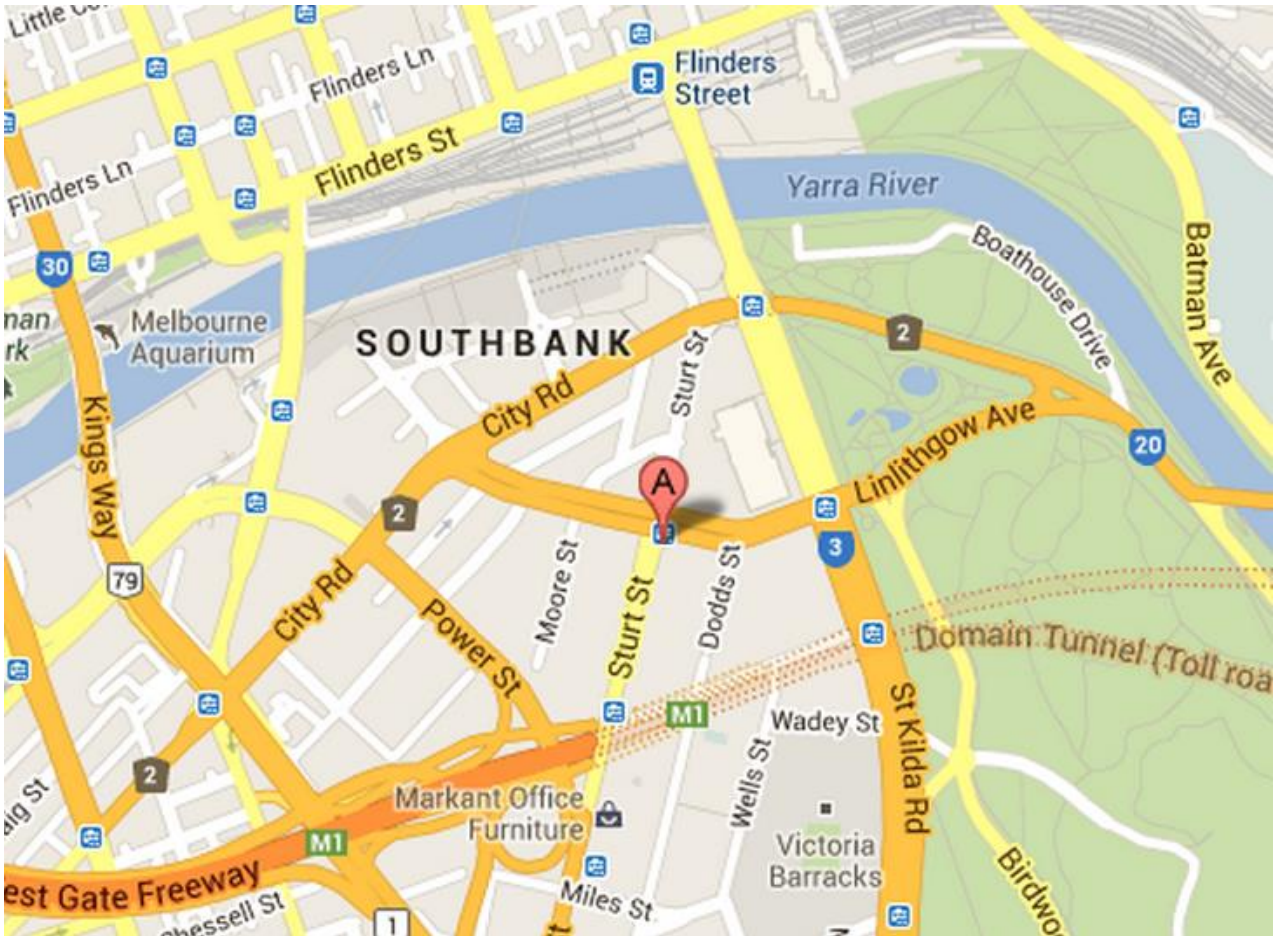
Visiting Company Office

The visiting company office can accommodate up to 3 people. It contains a desk, computer with internet access, telephone, television and some small storage areas. Supplemental internet access can be made by arrangement. Alternately it can be used as a dressing room.

Stage Door

The MRC's Stage Door services the backstage areas for both the Salon and Elisabeth Murdoch Hall. It is located on Sturt Street and attended from 08:00 until venue closedown each day. All presenters, staff, artists and visitors are required to report to Stage Door prior to entry to back of house areas

Venue Location



Address

Venue Address:

Cnr Sturt Street & Southbank Boulevard
SOUTHBANK VIC 3006

Postal Address:

31 Sturt St
Southbank VIC 3006