

The Robinson Theatre

Technical specification

February 2021

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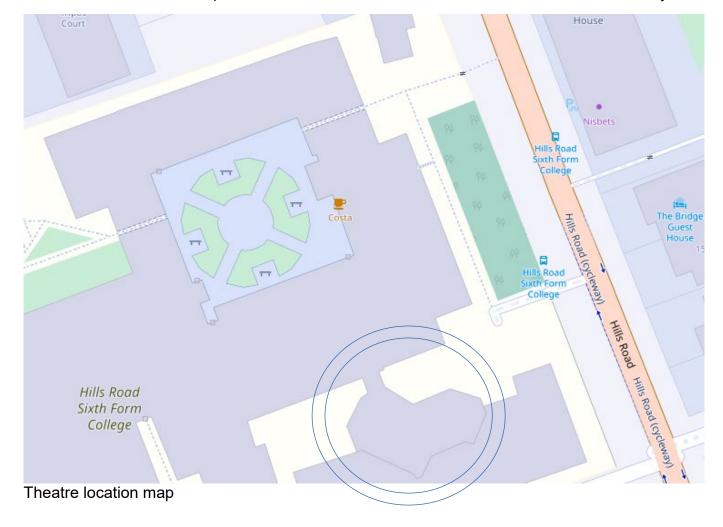
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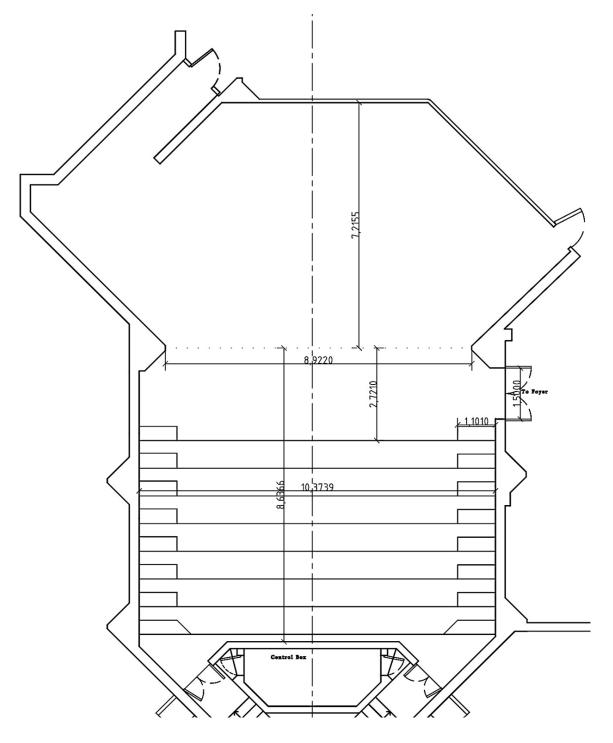
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Theatre Dimensions and Overview

The Robinson Theatre is a 142 seat studio theatre. The theatre is accessed via the Visitor's car park on Hills Road. There is level access from the car park to the theatre foyer. There is a slight ramp up into the Auditorium from the Foyer. The Control Box is only accessible via stairs through the Auditorium or the back entrance of the theatre.

There are two sets of doors leading from the car park to the Auditorium and stage. The doors from the car park to the Foyer are 1560mm wide by 2250 mm tall. The door between the Foyer and the Auditorium is 1321mm wide by 1922mm tall.

Dimensions



Lighting Specification

The Robinson Theatre lighting rig consists of a mixed rig of generic and intelligent fixtures spread across 4 fixed bars over-stage, and 4 fixed bars, and 2 vertical perches located in the auditorium. A WYSIWYG file of the basic rig is available.

Lighting bar height is fixed at 5.1m

Lighting Infrastructure

The Theatre's lighting infrastructure primarily consists of data cable runs around the stage and auditorium on 5-pin XLR. These runs terminate at a DMX splitter in the Control Room that feeds the hard-wired dimmers and DMX outputs. There is a DMX input on row F of the auditorium for plotting. It is not possible to use both inputs simultaneously.

DMX outputs on 5-pin XLR are located in appropriate places within the Theatre. The locations are high-level house left in the auditorium; a 4-way splitter high-level stage right at the end of LX 1; and at low-level stage left. DMX universe 2 is available at the centre of FOH 1 and downstage right on 5 pin XLR.

Dimming and Hard Power

All lighting circuits in the internally wired bars terminate in the Lighting Store in 2 ETC Sensor3 dimmer racks. There are are 84 ways of dimming and 12 ways of hard power available. The IWBs cannot be physically re-patched.

All the Theatre's bars are internally wired with 15A outlets. There are 12 relays in the Sensor racks that provide hard power to 12 16A ceeform outlets on 6 of the overhead bars.

Bar	15A dimming circuits	16A hard power circuits
FOH 4 (furthest from stage)	4	
FOH 3	10	2
FOH 2	10	2
FOH 1 (closest to stage)	10	2
Auditorium perches (L and R)	7 (paired)	
LX 1 (downstage)	10	2
LX 2	8	2
LX 3	8 2	
LX 4 (upstage)	4 (4 outlets per circuit)	
Dips around stage (low-level)	12	

The lay out of the theatre's IWBs is as follows:

There are two racks of Strand Act6 dimmers located either side of the stage, which provide an additional 42 ways of dimming on 15A outlets on-stage. There are 24 ways of dimming stage left and 18 ways of dimming stage right.

The Theatre can supply a total of 126 ways of dimming and 12 ways of hard power, of which there are 74 dimmers and 10 ways of hard power allocated to the house rig. The remainder are available for specials as required.

Houselights

Four floodlights are rigged on FOH 2 and 3 for auditorium lighting. These are fed by 4 ways of dimming.

Qty.	Description	Notes
	Generic profiles	
18	Strand SL zoom 15-32	
12	Strand SL zoom 23-50*	* - used in fixed lighting rig. Cannot be de-rigged or moved.
4	ETC Source 4 36	
2	ETC Source 4 50	
2	ETC Source 4 26+	+ - 2x 19 degree lens tube available.
3	CCT Silhouette 30	
4	CCT Minuette profile	
	Generic Fresnel & PC	
23	Strand Quartet F*	6 used in fixed rig.
6	Selecon Acclaim	
2	CCT Starlette PC 1kW	
	Other Generics	
18	Par 64 NSP (CP61)	10 used in fixed rig
6	Par 64 MFL (CP 62)*	
2	Par 36 pinspots	
4	Strand Coda 500/3*	Rigged as cyc floods in RGB.
9	Birdies	240V GU10
1	StairVille PowerStrobe 1500	2 channels
	LEDs	
2	StairVille LED bar Tri	18 channel mode
6	Prolights Eclipse Fresnel TW	19 channel mode
2	StairVille LED UV 10mm Par56	2 channels
	Moving Lights	
2	Coemar Prospot 250LX	15 degree lens.
	Special Effects	
1	LeMaitre MVS hazer	
1	Antari X-310 Fazer	
1	JEM ZR33 Fog machine	
	Follow Spots	
2	Strand Cantata 1.2kW	2x 4 colour magazine available. Fitted with Iris.
	Lighting Consoles	
1	ETC lon classic with 2x10 fader wing	2 displays available. WiFi remote available.

Lighting Equipment List

Sound Specification

The house system comprises of 4x EM Acoustics EMS-81X and 1x EM Acoustics iR12 subwoofer. This covers the whole auditorium and is suitable for vocal and musical reinforcement.

Two EMS-81X are flown at ceiling height and two are wall mounted either side of the proscenium approximately 2.9M off the floor for left and right.

The sub is flown centre stage at the setting line.

Amplifiers

The front of house left and right are driven by 2 ways of PowerSoft Quattrocanali 2404. The sub is driven by a PowerSoft Duecanali 1604 in bridged mode.

FOH Consoles and System Control

Allen and Heath QU16 digital mixing console. Can be moved into the auditorium for more detailed monitoring.

Allen and Heath GL3300 mixing console. 1x Allen and Heath AB168 16 in / 8 out digital stage box.

Outboard and playback

1x Behringer DSP1000 FX unit1x Alesis Compressor/Limiter1x Denon CD player1x Windows 10 PC running SCS 11. (Also used for projection cues.)

Patchways and cabling

12x XLR sends running from SL to the control box

6x speakon (4x SL, 2x SR) returns running from control box to the stage. (5 used for house PA.) 2x speakon sends from the control box to the rear of the auditorium (L and R). Four cat 5e lines are available stage left, terminating in the control box.

The Theatre has a good stock of XLR and speakon cabling in lengths from 2m to 10m. However, we recommend that visiting companies provide enough cable stock for their sound needs.

Stage monitors

Two EV SX300s are located on the floor either side of the stage for fold back. A further two are available for more detailed monitoring.

The EV SX300s SR and SL are driven by 2 ways of PowerSoft Quattrocanali 2404.

There are speakers in the control box and dressing room, behind the stage, for show relay.

Microphones

1x Shure SM58 plus stand and cabling included in hire charge. Additional microphones and audio equipment are available to hire. An input for laptops/iPods etc. is available in the control box.

8x Trantec radio mics are available to hire on the Theatre's CH38 license.

4x Trantec radio mics are available to hire on CH70.

Visiting companies will need to provide their own batteries and headsets for radio mics. Various short stands, tall stands and clips are available to match the theatre's microphone stock.

Audio Visual

There is an NEC PA903X projector rigged on FOH1 projecting onto the back wall of the stage. The projector is fitted with a DMX shutter, controlled by the lighting desk.

Please note the projector is fixed in this position and cannot be de-rigged or moved.

The projected image is 4.5m tall by 5m wide. The default resolution is 1024x768.

1x HDMI input in the control box, 1x HDMI input stage left.

1x VGA input in the control box, 1x VGA input stage left. (The VGA input in the control box and onstage cannot be used simultaneously as switching from one to the other requires re-plugging the projector.)

1x Windows 10 PC running SCS 11 for image and video cues available (also runs sound cues.)

1x analogue camera fixed to back wall of theatre, for show relay, terminating at a screen back-stage right. The camera has built in IR for dark scenes. The feed can be split to function as a conductor's monitor.

2x cameras available to be used as conductor relay cameras.

Multiple screens are available to distribute video around the theatre on 75 ohm BNC cabling.

1x Kramer 8x8 analogue audio/video matrix available for video switching/distribution.

It is possible to send live video to the projector from the 8x8 matrix

<u>Power</u>

There are 4 double 13A sockets on a single ring around the stage (DSR, USR, USL, DSL).

There are 2 63A 3Ø outlets onstage. 1 downstage right and 1 upstage left. (These are typically used for the additional dimmer racks that form part of the house lighting rig.)

There is an additional 63A 3Ø socket in the Green Room.

There is a double 13A socket at each follow spot position.

There are 2 single 13A sockets at the rear of the auditorium. These can be used to run power to director's tables/cameras in the auditorium etc.

There are a number of 13A sockets available in the control box for laptops/ radio mics etc.

Robinson Theatre technical specification **Rigging**

There are no flying facilities available at the Robinson Theatre. It is possible to rig lightweight set pieces from the lighting bars, but this must be pre-arranged with the technical team in advance. The lighting bars are rated to 40KG uniformly distributed load per meter up to 200KG. The bars are fixed to I-beams in the ceiling of the venue and cannot be re-positioned or removed. They are fixed at a height of 5.1M.

The Theatre can rig 6x 5m vertical booms on-stage (3 per side). Each boom has 3 lantern positions as standard. They are typically set-up as dance side lights with heights as follows: 700mm, 1300mm and 1950mm.

Black tabs are rigged mid-stage and reduce the stage depth to 5m. This blocks the most upstage lighting bar and cyc from view.

Stage Specification

The Robinson Theatre has a flat proscenium style stage with a wooden floor. The proscenium opening is 9.2m wide by 4.6m tall. The stage is painted matt black. There are six hard maskers (3 each side) measuring 1.5m by 5.0m. The maximum height for scenery possible onstage is 4.9m due to the fixed lighting bars.

The back wall of the stage is painted white and functions as a cyclorama. If required it can be covered with black drapes to create a black box.

A full-stage dance skin is available; however, no heavy furniture can be placed on the dance skin.

Deck and risers

Qty.	Туре	Size I x w (mm)	Surface	Notes:
4	Steel deck	2440 x 1220	18mm ply	1 piece has traps cut into surface.
10	Lite deck	2440 x 1220	18mm ply	8' and 4' handrails available.
2	Lite deck	2400 x 610	18mm ply	
2	Lite deck	1220 x 1220	18mm ply	

The Robinson Theatre has a stock of rectangular deck pieces in the following sizes:

A range of heights are possible depending on the exact configuration of the deck. The theatre also stocks a selection of arc and wedge shaped aluminium decking. Please consult the technical team prior to your hire if you require the use of the steel deck as it is subject to an additional hire charge.

All visiting companies must comply with the following:

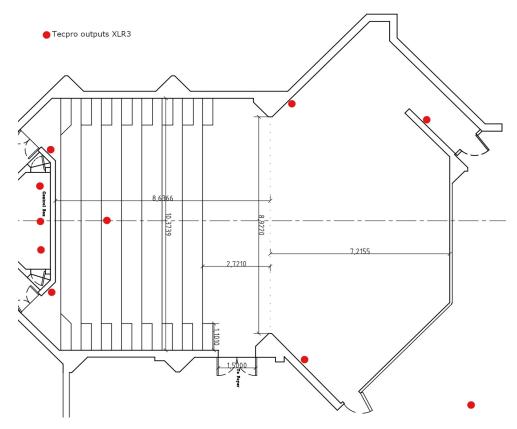
- The floor can be fixed into with staples/screws, however, all fixings must be removed, and any damage must be made good by the Visiting Company.
- No food or drink can be brought onto stage. Water is permitted, so long as the container has a lid.
- All deck, risers, chairs and other staging/set pieces must have end caps.

Robinson Theatre technical specification Comms System

The theatre is fitted with a full-duplex Tecpro intercom with outlets located in appropriate locations around the auditorium and stage (See plan below). The Theatre will provide 3 Tecpro beltpacks and headsets and cabling free of charge. Additional sets (up to 11 total) may be used at extra cost.

The Master Station is located in the Control Box and powers all available outputs and beltpacks on a single ring. It is not possible to split the intercom ring. The Theatre has a 2-way radio interface for the intercom system if required.

Plan



Dressing Rooms

One dressing room available behind the stage (the Green Room), which also acts as the backstage crossover and props room. Toilets and showers located short distance from the Green Room.

Other classrooms around the college site are available to hire as additional dressing rooms to segregate genders and age groups if required. Please liaise with the technical team if this is something you require.

Please note there are no food preparation facilities on site. There are several shops and restaurants a short walk from the theatre selling a range of hot and cold food.

Robinson Theatre technical specification **Auditorium**

142 seats arranged in 7 rows of 18 and 1 row of 16 in fixed 2 seat benches. There are gangways 1.1m wide either side of the seating. The first row of seating is on the same level as the stage. There is 1.5m from the edge of the stage to the first row of seats.

Wheelchairs can be accommodated on the first row. Up to 4 wheelchairs can be accommodated in the auditorium simultaneously.

We recommend selling allocated seats as it makes getting an audience in and out of the venue considerably easier. If you require an auditorium mix position this removes 8 seats from sale. The visiting company is responsible for all box office activity, including the provision of appropriate Front of House staff for the performance. It is the visiting company's responsibility to ensure that a performance is not oversold.

Due to the limited amount of parking available on-site, the Theatre recommends that audience members park in the multi-storey car park on Clifton Way. There are two blue-badge spaces outside the theatre and eight regular spaces available for cast/crew who need on-site parking.

Theatre Foyer

Located directly next to the theatre is the theatre foyer. The foyer has a box-office desk and is usually used as a waiting area prior to performances.

It is possible to set up a band and conductor in the foyer and link audio and video through into the theatre.

The foyer has a sprung floor and upright piano for rehearsal purposes. The piano can be moved into the theatre for performances.

It is possible to access the Foyer from the Green Room without going through the auditorium, meaning the main door into the theatre can be used as an entrance during a performance if required. It is also possible to use the rear doors of the auditorium as entrances.

Prop and Costume hire

The theatre has a well-stocked prop store and wardrobe and offers these facilities on a hire basis. Any prop or costume hire MUST be agreed with the technical team in advance of your venue hire.

Any damage to theatre props or costume is chargeable to the visiting company.

The theatre has a washing machine and tumble dryer but the visiting company must provide their own detergent.

Robinson Theatre technical specification Appendix 1- Useful measurements

These measurements are offered as a rough guide. If any measurements are production critical, please consult the technical team.

Performance area (full) - 9.0m (w) x 7.4m (d) Performance area (tabs in) - 9.0m (w) x 5.1m (d) Full Ceiling Height - 5.75m Floor to I-beam height - 5.2m Main door dimensions - 1.5m (w) x 2.2m (h) Auditorium door dimensions - 1.32m (w) x 1.92m (h) Lighting bar height - 5.1m

Auditorium lighting bar length - 10m Stage lighting bar length - 9m

Projected image on cyc - 5m (w) x 4.5m (h)

Robinson Theatre technical specification Appendix 2 – Standard Lighting Plan

(Lanterns and colours subject to change w/o notice.)

