# The Robinson Theatre

## Technical specification

## June 2026

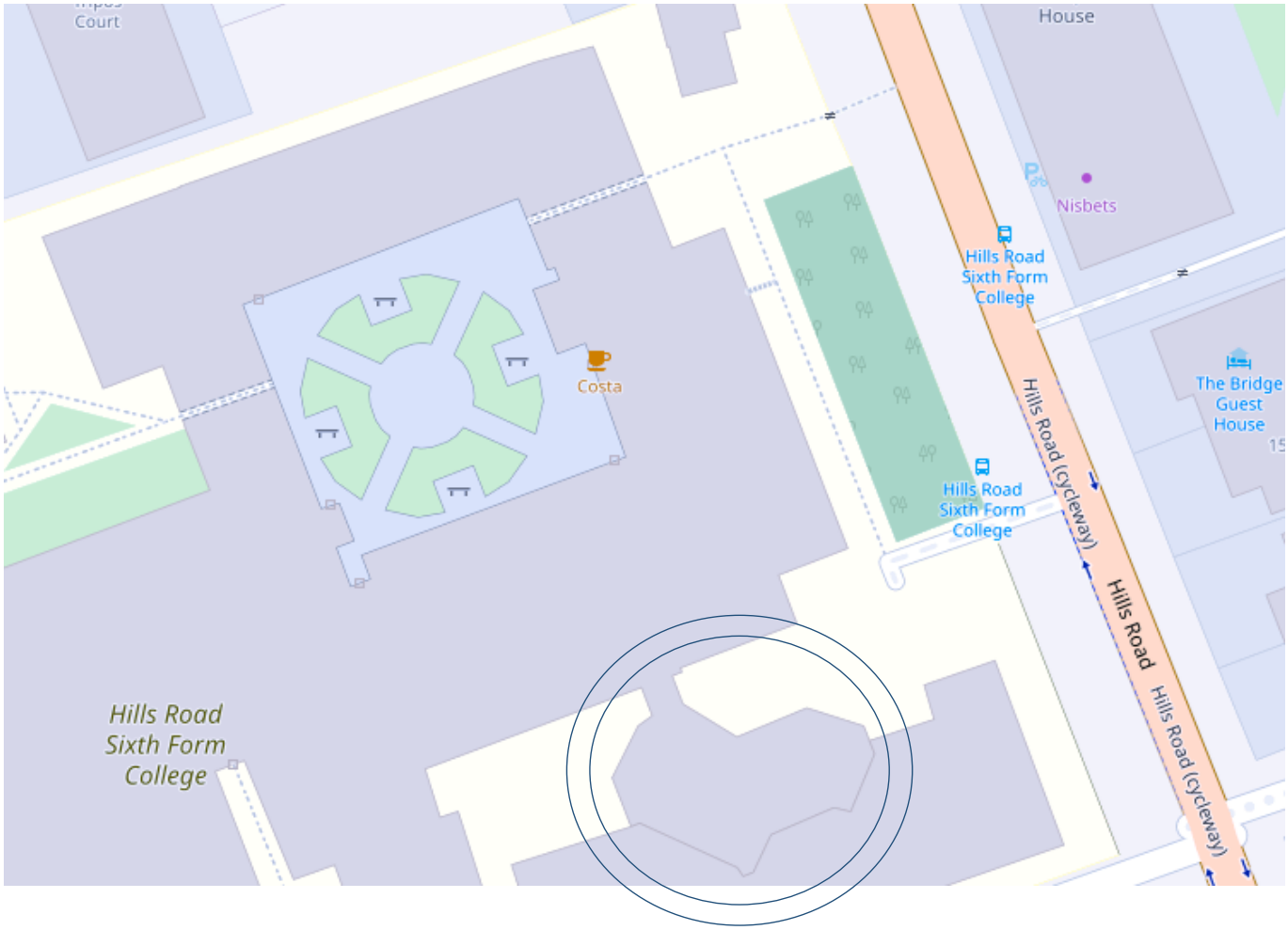
Hills Road Sixth Form College
Hills Road
Cambridge
CB2 8PE

01223 247251 ext. 1245
www.hillsroad.ac.uk/venue-hire/theatre-hire

**For any enquires please contact:**

Theatre Manager: Brendan Synge bsynge@hillsroad.ac.uk
OR
Theatre Technician: Alex Bevan abevan@hillsroad.ac.uk

Theatre location map



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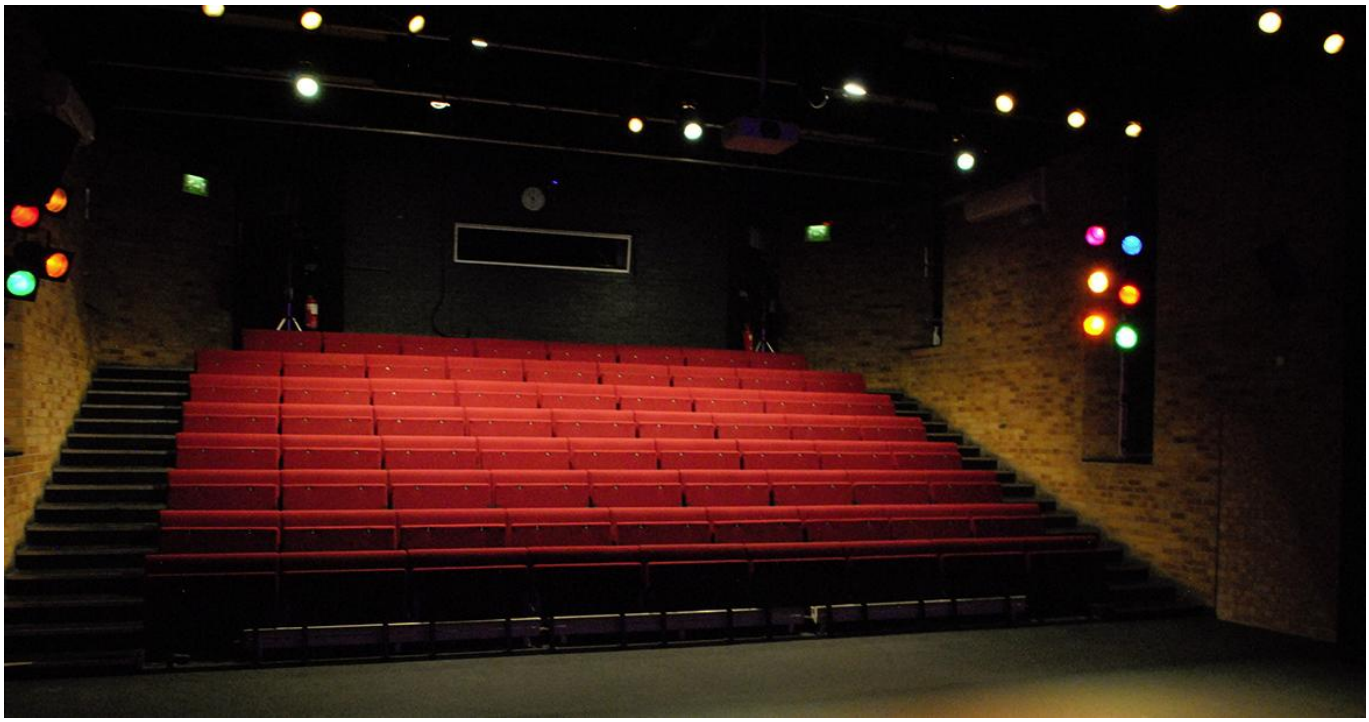
## Overview

The Robinson Theatre is a 142-seat studio theatre with an end-on proscenium style stage. The theatre is accessed via the main reception on Hills Road. There is level access from the front car park to the reception doors and Theatre Foyer. There is a slight ramp up into the auditorium from the foyer. The Theatre's control box is only accessible via stairs, through the auditorium or the rear doors of the theatre.

### Auditorium

142 seats arranged in seven rows of 18 and one row of 16 in fixed two 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 and occupy two regular seats. Up to 4 wheelchairs can be accommodated in the auditorium simultaneously.





# Stage Specification

The Theatre has a flat proscenium style stage with a wooden floor, painted matt black. There are six hard maskers (3 each side) measuring 1.4m by 5.0m (WxH). The maximum height for scenery 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, the wall can be covered with black drapes to create a black box effect.

A full-stage black dance skin is available. No heavy scenery or furniture may be placed on the dance skin.

### Dimensions

Proscenium opening – 9.1m (w) x 4.5m (h)

Stage depth – 7.4m full stage, 5m with black tabs in.

Maximum playing area – 9.1m x 7.4m

There are two sets of doors leading from the car park to the Auditorium and stage. The door from the car park to the Foyer is 1560mm wide by 2300mm tall. The door between the Foyer and the Auditorium is 1320mm wide by 1920mm tall. All scenery to be used onstage must be able to pass through these doors.

### Deck and risers

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

| Qty | Type | Size l x w (m) | Surface | Notes: |
|---|---|---|---|---|
| 10 | Lite deck rectangle | 2.44 x 1.22 | 18mm ply | |
| 2 | Lite deck rectangle | 2.44 x 0.61 | 18mm ply | |
| 2 | Lite deck square | 1.22 x 1.22 | 18mm ply | |
| 2 | Lite deck triangle | 1.22 x 1.22 | 18mm ply | Straight edges are 1.22m. |
| 4 | Lite deck arc | 1.22 x 1.22 | 18mm ply | Straight edges are 1.22m. |

A range of heights from 0.3 – 2m are possible depending on the exact configuration of the deck. Please consult the technical team prior to your hire if you require the use of deck as it is subject to an additional hire charge.

The theatre has a good stock of scaffold tubes and clamps for use as deck legs and bracing. The theatre has a stock of 1.22m and 2.44m handrails to match its lite deck stock.

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 at the end of their hire.
- 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.
- Any platform above 915mm (3’) in height must have handrailing fitted.

**Soft Goods**

The Theatre owns the following soft goods:

| Description | Size (WxH) | Qty |
|---|---|---|
| Black Wool Serge leg w/ties at top | 1.5m x 6m | 2 |
| Black Wool Serge leg w/ties at top | 3m x 6m | 7 |
| Black Wool Serge leg w/ties at top. | 4.5m x 6m | 4 |
| Black Wool Serge border (permanently rigged at setting line.) | 10m x 1m | 1 |
| Red tab w/webbing straps at top | 6m x 5m | 2 |
| Black tab w/tab hooks at top | 6m x 5m | 2 |
| White floor cloth (painted on one side) | 10m x 8m | 1 |

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

A second tab track is rigged just upstage of LX2, this is normally empty.

It is not possible to operate the tab tracks remotely; the ends of the tabs must be walked across stage by a crew member or performer.

# 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. Lighting bar height is fixed at 5.1m. LXFree and ETC Eos files for the basic rig are available upon request.

### Lighting Infrastructure

The Theatre's lighting data infrastructure consists of cable runs around the stage and auditorium on 5-pin XLR. These runs terminate at an installed DMX splitter in the Control Room that feeds the fixed dimmers and DMX outputs. There is a DMX tie-line from the Auditorium to the Control Box for plotting.

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

The theatre owns a Chauvet D-Fi wireless DMX transmitter and seven corresponding receivers.

The theatre has a dedicated show network with Wi-Fi to allow remote control of its sound and lighting equipment.

### Dimming and Lighting Hard Power

All the Theatre's bars are internally wired with 15A or 16A outlets. Dimming circuits on 15A, hard power circuits on 16A. The IWBs cannot be physically re-patched.

All lighting circuits terminate in the Lighting Store in two ETC Sensor3 dimmer racks. These can supply a total of 84 ways of dimming and 12 ways of hard power.

The layout of the theatre's IWBs is as follows:

| 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 | |

A portable 4-channel dimmer pack is available for birdies or small practical effects if required. The maximum load of this pack is 13 Amps total. The outlets of this pack are IEC.

**Lighting Equipment List**

| Qty. | Description | Notes |
|---|---|---|
| | **Generic profiles** | |
| 16 | Strand SL 15-32 zoom | |
| 10 | Strand SL 23-50 zoom | |
| 8 | ETC Source 4 750 | 2x 50, 4x 36, 2x 26, and 2x 19 degree lens tubes available. |
| | **Generic Fresnel & PC** | |
| 8 | Strand Quartet F | Barn doors available |
| 6 | Selecon Acclaim F | Barn doors available |
| 2 | CCT Starlette PC | Barn doors available. 1kW lamp. |
| | **Other Generics** | |
| 15 | Par 64 (CP61) | |
| 6 | Par 64 (CP62) | |
| 2 | Par 36 pin spots | |
| 6 | Par 16 "Birdies" | 240V GU10 50W |
| 4 | 500W floodlight | Rigged over the seating as house lighting. |
| 1 | StairVille PowerStrobe 1500 | 2 channels |
| | **LEDs** | |
| 2 | StairVille LED Bar Tri | 18 channel mode |
| 6 | Prolights Eclipse Fresnel TW | 19 channel mode |
| 4 | Prolights Eclipse Cyclorama 100 | 10 channel theatre mode |
| 7 | Prolights Eclipse FWVW Profile 25-50 | 5 channel mode. Permanently rigged as a front wash. |
| 2 | Eurolite Akku QCL 6 battery LED PAR | 6 channel mode |
| 2 | StairVille LED UV 10mm Par56 | 2 channels |
| | **Moving Lights** | |
| 2 | Clay Paky Sinfonya Profile 600 | 58 Channels. Rigged FOH and cannot be moved. |
| | **Special Effects** | |
| 1 | Antari F-1 Fazer | Please note: smoke/haze usage is subject to an additional hire charge. |
| 1 | JEM ZR33 Fog machine | |
| 1 | 40cm Mirror Ball | Rigged over Auditorium. |
| | **Follow Spots** | |
| 2 | Strand Cantata F/S 11-26 1.2kW | Fitted with iris and four colour magazine. |
| | **Lighting Consoles** | |
| 1 | ETC Ion classic with 2x10 fader wing, running Eos V3. | 2 displays available (not touch screen). Wi-Fi remote available.<br>Contact the theatre for exact software version. |

# 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 subwoofer is flown centre stage at the setting line.

### Amplifiers

The front of house left and right are driven by 4 ways of PowerSoft Quattrocanali 2404.

The subwoofer is driven by a PowerSoft Duecanali 1604 in bridged mode.

### FOH Consoles and System Control

The input to the PA system is managed by a Behringer Ultradrive DCX2496 processor.

Allen and Heath QU16 16ch digital mixing console as permanent FOH desk.

Allen and Heath SQ5 48ch digital mixing console with Dante I/O card available for larger shows.

1x Allen and Heath AB168 16 in, 8 out digital stage box.

A mix position can be created at the back of the auditorium for more detailed monitoring. If you require an auditorium mix position this removes approximately 12 seats from sale.

The theatre has a dedicated show network with Wi-Fi access to allow remote control of sound and lighting equipment.

### Outboard and playback

1x Behringer DSP1000P Virtualizer multi-FX

1x Alesis 3630 dual channel compressor/limiter

2x Boss RC-3 Looper pedal
1x Zoom V3 Vocal Processor

1x Apple Mac Studio running Qlab 5 (licenced for audio, video and lighting)

1x Denon CD player

### Patchways and cabling

12x XLR sends running from SL wing to the control box (one used for stage monitor SL).

6x Speakon (4x SL, 2x SR) returns running from control box to the stage (five used for house PA).

2x Speakon returns from the control box to the rear of the auditorium (L and R).

6x cat 5e lines available stage left, terminating in the control box.
1x cat 5e line available stage right, terminating in the control box.
1x cat 5e line available in the Foyer, terminating in the control box
4x cat 5e lines available in row G, terminating in the control box.
2x cat 5e lines available in row F, terminating in the control box.

The Theatre has a good stock of 3-pin XLR, cat5 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 Mackie Thump 12” active speakers are located either side of the stage for fold back. A further two are available for more detailed monitoring.

Two Behringer Eurolive B205D active speakers are available for pit monitors.

One Behringer Powerplay HA8000 8-channel headphone amplifier.

There are 100V line speakers in the Control Box and Green Room for show relay, fed from an installed microphone in the auditorium. The show relay is independent of the rest of the theatre’s sound system.

**Portable Sound Equipment List**

1x Shure SM58 plus stand and cabling included in hire charge. Additional microphones and audio equipment are available to hire. A 3.5mm stereo jack input for laptops/iPods etc. is provided in the control box.

| Qty. | Description | Notes |
|---|---|---|
| | **Microphones** | |
| 3 | Shure SM58 | |
| 3 | Shure SM48 | |
| 2 | Shure SM57 | |
| 2 | Neewer NW-410 Condenser | Can be cardioid, hyper cardioid or omni pickup |
| 2 | Behringer CB100 | Various instrument clips available. |
| 9 | AKG P3S | Can be locally switched. |
| 2 | Crown PCC160 | Cardioid boundary mic |
| 2 | Superlux E303 | Cardioid boundary mic |
| | **Radio Mics** | |
| 4 | Trantec S4.10 channel 38 radio mic | Handheld or belt-pack. |
| 6 | Trantec S4.16 channel 38 radio mic | Belt-pack only. |
| 2 | Trantec S4.4 channel 70 radio mic | Belt-pack only. |
| | **DI Boxes** | |
| 4 | Behringer DI100 | Mono DI box. |
| 2 | Behringer DI200 | Stereo DI box. |
| 2 | Behringer DI4000 | 4-channel DI box. Rack-mounted together, requires mains power. |
| | **Mic stands** | |
| 5 | Tall boom mic stand | |
| 4 | Pulse short boom mic stand | |
| 16 | Pulse table-top mic stand | |
| | **Musical Instruments** | |
| 1 | Yamaha P-125 digital piano | 88 keys. |
| 1 | 5-piece drum kit | |

Visiting companies will need to provide their own batteries and headsets for radio mics. All the theatre's radio mics use a Sennheiser-style 3.5mm locking jack connector. The transmitters use a mixture of 9V and 1.5V AA type batteries.

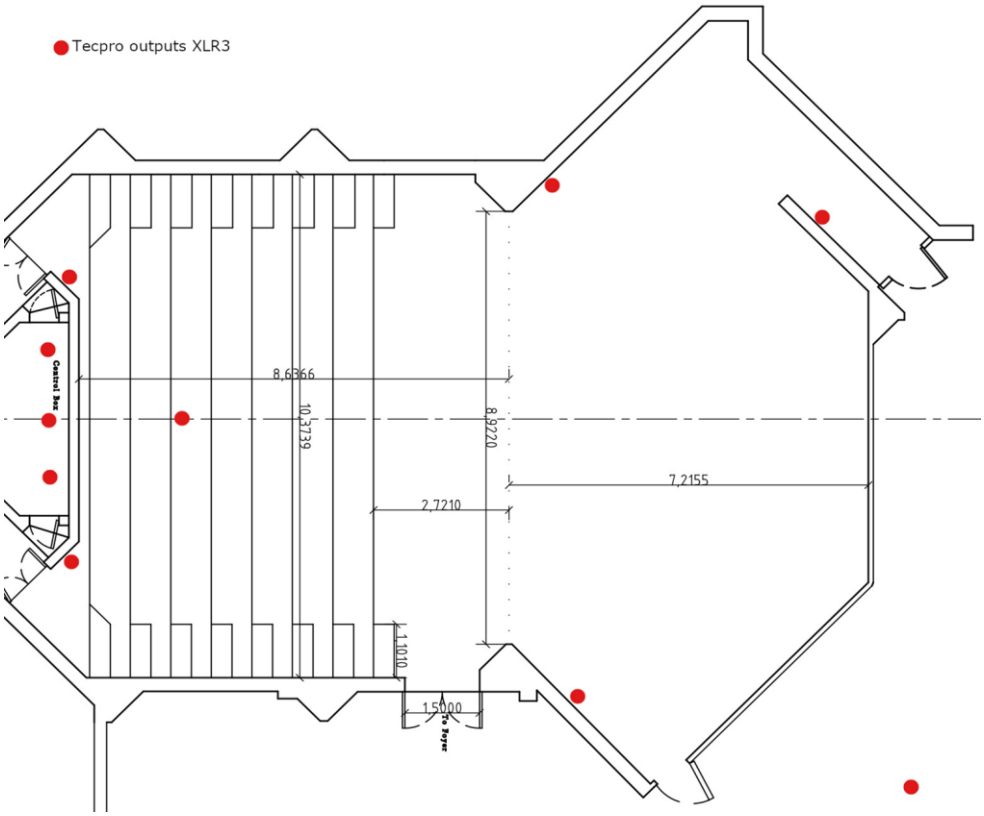
The Theatre holds a shared (channel 38) licence for radio mics. Frequency lists for the Theatre's wireless equipment are available upon request.

### Comms System

The theatre is fitted with a full-duplex Tecpro party-line intercom with outlets in appropriate locations around the auditorium and stage (see plan below). The Theatre has 13x BP111 belt-packs in total. Three of these are permanently installed in the control box at the lighting, sound and DSM positions. The rest are available for use as required.

The master station is in the control box and powers all available outputs and belt-packs 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.

### Intercom connection plan



# Video/Projection

### Projection

The theatre owns an Epson EB-PU2010B laser projector, fitted with an ELPM15 zoom lens. The projector is rigged on FOH2 and focused onto the back wall of the stage. The projector is fixed in this position and cannot be de-rigged or moved.

The projector must be switched off anytime someone is working at height in the Auditorium; this is to ensure that technical personnel are not exposed to the laser source.

The projected image is 4m wide by 3m tall. The default resolution is 1920 x 1200 pixels (WxH).

1x HDMI input in the control box. It is possible to run HDMI over cat5 to the projector for the video source to be onstage if required.

1x Apple Mac Studio running Qlab 5 for, licenced for audio, video and lighting for playback (also runs sound cues).

### Video Distribution

Composite video can be distributed around the theatre on 75 Ohm BNC cabling, or over the Cat5 tie-lines using adapters.

Multiple screens are installed around the theatre showing a live view of the stage, fed by a video splitter located in the control box. The screens are located in: the backstage corridor SR, the Green Room, the Foyer, and the control box.

There is a fixed screen at the rear of the auditorium, above the control box window, for use as a conductor’s relay.

Additional portable screens are available to provide a live view of the stage.

1x Kramer VS-808xl 8x8 audio/video matrix switcher available for additional video switching/distribution. The matrix accepts composite video on BNC or unbalanced stereo audio via RCA.

The theatre has a good stock of video adaptors to match its equipment.

### Cameras

1x composite video camera fixed to back wall of theatre showing a live view of the stage. The camera has built in IR for dark scenes and can be split to additional monitors if required.

1x Samsung SCO-2040RP camera which can be used as a conductor relay camera. Outputs composite video on BNC.

3x Sony Handycam cam-corders available to use as live video inputs onstage. Output is composite video.

It is possible to send video to the Qlab Mac wirelessly using the theatre’s show network and the NDI camera app on an iPad.

# Stage Power

### Single Phase outlets

All the theatre's 13A sockets are protected by 30mA RCD, either on the faceplate or at the DB.

4x 13A double sockets around the stage (DSR, USR, USL, MSL).

1x 13A double socket at each follow-spot position. **N.B.** These sockets are tripped at 6A each.

1x 13A single socket either side at the rear of the Auditorium (2 total).

1x 13A double socket under seats in centre of Row G.

9x 13A double sockets in the Control Box, some of which power the theatre's lighting and sound equipment.

### Three Phase outlets

2x 63A TP&N outlets onstage. 1x downstage right and 1x upstage left.

1x 63A TP&N outlet in the Green Room (behind the stage).

Visiting companies will need to provide their own temporary distribution equipment to utilise the 3-phase outlets. None of the three phase outlets are RCD protected.

**N.B.** The total load on all three outlets combined cannot exceed 63 amps per phase, as they are all wired in to the same circuit breaker at the DB.

## 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 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 floor to ceiling vertical booms on-stage (max 4 per side). There are two fixed proscenium booms that run from floor to 3.5m.

The theatre has two tank traps suitable for 48mm scaffold tube.

The theatre owns a selection of right angle and swivel scaffold clamps for bracing onstage structures or creating additional rigging positions.

The theatre has a stock of Doughty twisted boom arms (max weight 12KGs) to enable lanterns to be rigged on booms.

# Dressing Rooms & Other Facilities

### 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 a 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.

### Theatre Foyer

Located directly next to the theatre is the Theatre Foyer. The Foyer is usually used as an audience waiting area prior to performances. The Foyer has a counter which can be used for box office or concessions.

It is possible to set up a band and conductor in the Foyer and link audio and video through into the theatre. A cat5e tie-line to the control box is available for this purpose.

The Foyer has a sprung floor, mirror and upright piano for rehearsal purposes. The piano can be moved into the theatre for performances. At its largest, the Foyer measures 11.5 by 9.1 metres.

It is possible to access the Foyer from the Green Room without going through the auditorium, meaning the main audience 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.

### Front of House and Box Office

The visiting company is responsible for all box office activity, including the provision of appropriate Front of House staff for the performance. The Theatre requires a minimum of two ushers to be present in the auditorium during performances.

It is the visiting company’s responsibility to ensure that a performance is not oversold. The maximum audience capacity is 140 people plus two ushers. If the auditorium mix position is used, this reduces the capacity to 128 people plus two ushers. See appendices for seating plan.

**Parking**

There are two blue-badge spaces and seven regular spaces available for cast/crew who need on-site parking outside the main reception/theatre.

Further spaces may be available in the staff car park at the rear of the college site, a short walk from the theatre.

Due to the limited amount of parking available on-site, the Theatre recommends that audience members are asked to park in the Cambridge Leisure multi-storey car park on Clifton Way (CB1 7DY).

**Prop and Costume hire**

The Theatre has a well-stocked prop/furniture 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.

## 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)** – 9.1m (w) x 7.4m (d)
**Performance area (tabs in)** – 9.1m (w) x 5.1m (d)

**Full Ceiling Height** – 5.6m
**Floor to I-beam height** – 5.2m

**Foyer get-in door dimensions** – 1.56m (w) x 2.3m (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** – 4m (w) x 3m (h), 1920 x 1200 resolution

## Appendix 2 – Standard Lighting Plan

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

## Appendix 3 – Equipment hire price list

Correct as of 28/01/26. Please consult the technical team for up-to-date pricing. All prices shown are exclusive of VAT.

| **Item** | **Cost** |
|---|---|
| Decking, stairs, treads (inc. legs and handrails) | £10.00 per piece for duration of hire |
| JEM Smoke machine | £10.00 per day used |
| Antari Haze machine | £10.00 per day used |
| Wired Microphones (inc. stand and XLR cable) | £10.00 each for duration of hire |
| Wireless microphone (inc. transmitter, receiver and lavaliere mic element) | £10.00 each for duration of hire |
| Wireless microphone headset | £5.00 each for duration of hire. (£40 if returned damaged.) |
| Wardrobe (complete costume) | £10.00 per costume for duration of hire |

# Appendix 4 – Seating Plan

