

THE EXCHANGE



St Mary's
University
Twickenham
London

Technical Specifications Main Auditorium

(June 2025 – daily update)



THIS DOCUMENT IS LIVE AND BEING EDITED DAILY

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A note on future venue improvements

As the venue reaches it's tenth anniversary we will be renewing some of our technical stock.

As a result new stock may not be accurately reflected below.

This document is actively being updated to reflect the current stock available.

Please contact the interim Head of Technical&Operations with production requirements to confirm availability of equipment.

Planned future audio improvements

Main PA System purchases shall be from Martin Audio or D&B Audiotechnik

Backline audio and stage Monitors will be from DB technologies when the above is not available.

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SOUND SPECIFICATIONS

AUDIO FACILITIES

MIXER & DIGITAL STAGE BOXES

1 x Behringer X32 Audio Mixer: 40 input channel, 25bus digital mixing console for live application

<https://www.behringer.com/product.html?modelCode=0603-ACE>

With X-USB 16 Ch USB Digital audio interface Expansion

2x Behringer SD16 stage box: 16 sends – 8 returns per unit – AES50 Networking and Ultranet

<https://www.behringer.com/product.html?modelCode=0606-ACO>

(Loose)

1x Behringer SD8 stage box: 8 sends – 8 returns per unit – AES50 Networking and Ultranet one

<https://www.behringer.com/product.html?modelCode=0606-ACP>

(Loose)

AUDIO PLAYBACK :

QLAB 4 – 2023 M2 MAC MINI

We do not currently have a full QLab license on site, incoming shows are advised to rent, or buy a license if full functionality is required, or bring their own device. A full license will be available from June 2025

Audio points throughout main theatre space

Inputs/returns to control room:

Facility panel 01 (Stage Left)

6x XLR input pairs **inputs 9-12 not in use**

2x Ethercon ports

1 x RI (intercom)

Facility panel 02 (Stage Right)

6x XLR **4 not in use**

2x Ethercon ports

1 x RI (intercom)

Facility panel 13 (Stage Left)

2x XLR (in L/R) Tie direct into DSP bypass desk

Facility panel 15 (Balcony in theatre)

2x XLR (L/R) Patchable to DSP main out

2x Ethernet ports

1 x RI (intercom)

AUXILIARY ITEMS SHARED BETWEEN VENUES - REQUEST IN ADVANCE
DEPENDENT ON AVAILABILITY - CONTACT ADAM MOORE-WHITE TO CONFIRM

DIRECT INPUT BOXES

2x KLARK TEKNIK PRO Mono DI Active DI 10a

1x Samson MD1 PRO Mono Passive DI Box

1x Radial PRO D2 StereoDI Box

1x Radial PRO AV2 Multi-Media Stereo DI

1x Behringer Ultra-DI DI20 (2 channel Active DI)

MICROPHONES * TBC minimum stock listed

3x SM58 wired dynamic microphones

3x SM57 wired dynamic microphones

2x audio-technica. Pro 41 (*switchable*)

2x audio-technica. Pro 61

2x wireless Sennheiser G3 handheld microphones

MONITORING

4x dbTechnologies FlexSysy FMX10 10" Active Stage Monitor

<https://www.dbtechnologies.com/en/products/flexsys/fmx10/>

2X GENELEC 8030B Studio Monitor

<https://www.genelec.com/previous-models/8030b>

1x Behringer P1 IEM stereo/ mono amplifier wired (*please bring your own IEMs or headphones*)

<https://www.behringer.com/product.html?modelCode=0609-AAE>

2x Behringer Bi-Amped 250-Watt Active Monitor Speaker Wedges (*being phased out and replaced*)

3 x Behringer Bi-Amped 350-Watt Active Monitor Speaker Wedges (*being phased out and replaced*)

LOOSE LOUDSPEAKERS

2x dbTechnologies Opera 12 12" Active full range loudspeaker

Events in the conservatory space take priority

<https://www.dbtechnologies.com/en/products/opaera/opaera-12/>

3x Rcf Monitor 55 (2 currently fixed at rear of auditorium)

<https://www.rcf.it/en/products/product-detail/mr-55>

2x Tannoy VLS15 column speakers with pan tilt bracket (*former foh L/R*)

<https://www.tannoy.com/product.html?modelCode=0302-AAT>

ANALOGUE STAGE BOXES

2x 5m 8ch analogue stage box

2x 10m 12ch analogue stage box

STAGE PIANOS

Roland KR-17 Digital Baby Grand Piano

<https://www.roland.com/global/products/kr-17m/>

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~~Roland KR-17 Digital Baby Grand Paine~~
<https://www.roland.com/global/products/kr-17m/>

FOH PA & Loudspeaker details:
***please confirm 4 weeks prior to your event**

2 x (Main PA Auditorium L/R at height)

Frequency response: 55Hz-18kHz ± 3dB, -10dB @ 45Hz

Power: 400W AES, 1600W peak

Maximum SPL: 126dB continuous, 132dB peak

Dispersion: 100°-60° horizontal

Amps: Crown Drivecore XLS 2002 bridged at 8 ohms

Provides 1300W peak

<https://martin-audio.com/products/loudspeakers/cdd15>

2 x Tannoy VX 12 Speaker (Auditorium Centre fill)

Frequency Response (-3 dB) 70 Hz - 25 kHz

Frequency Range (-10dB) 55 Hz - 38 kHz

200W Continuous, 800W peak

<https://www.tannoy.com/product.html?modelCode=0312-ANI>

2 x Tannoy VS Series Subwoofer - Passive VS215HL (Auditorium L/R Floor level - front facing)

Frequency Response (-3 dB) 48 Hz - 350 Hz

Frequency Range (-10 dB) 40 Hz - 450 Hz

2000w Continuous, 8000w peak

<https://www.tannoy.com/product.html?modelCode=0312-ATE>

Amplifiers in control room rack for speaker groups:

4 x Crown XLS2000 Amplifiers 8ohm @ 375W per channel. * **new amps pending**

Control routing to speakers: Symetrix PRISM 8x8 DSP (8 inputs patchable)

- *Dsp also has 32x32 Dante in/out not currently in use*

Centre Fill has an eq at DSP level to match the Main L&R as much as possible

Subs have a highpass filter at DSP level and are fed direct from left and right input.

Centre cluster is currently panned at a dsp level

LIGHTING SPECIFICATIONS

Lighting desk, Grid, Supply, and current fixtures:

Venue operates a fixed rig designed to accommodate a wide range of requirements. Where a pre-rig is required, we must receive notice a minimum of six weeks in advance and this will be recharged as part of the contra.

1x ETC Ion Lighting Control Desk 1K: 1024 Outputs / parameters 10,000 Control Channel, (Max is 6,144 outputs / parameters) DMX 512 (2x universes)

3x Zero 88 Chilli Pro 2410i + RCD wall mounted dimmers (72 bypass switchable dimmer circuits)

1x 16 Way DMX Patch Bay

8x ETC Source Four **Fixed** Beam 575/750W Profile 36 degrees beam angle

8x ETC Source Four Jr Zoom 750 Watt profile 25-50 Zoom

8x ETC Source Four Zoom 750 Watt Profile 15-30 degrees beam angle

8x ETC Source Four Fresnel 750 Watt 20—65 degrees field angle

2x Elumen8 COB Tri 4 Pixel Batten - 60degrees beam angle

4x Chauvet Rogue R2X LED multicell moving wash lights zoom range 12° to 49°

8x PAR 56 short nose parcans with CP62 lamps on 2 T Bars - 4 per T bar.

6x Par 64 CP62 lamps

March 2025 standard house rig

Description of focus:

The exchange generally operates a standard house rig but this can be adapted dependent on the requirements of visiting companies – the standard House rig must be restored as part of the standard get out timeframe by the visiting company unless otherwise agreed - or a re-rig will be charged.

Description of standard rig:

General Three-point front wash: stage right, stage left, centre stage,
Warm in open white & Cold in L200

4 fixture overhead Moving colour wash

Top Light open – 4x fresnels

Back Light – Par 64s & 1k fresnels – can be gelled on request (chargeable for colours not in stock).

Specials: *located on advance bar*

1x ETC source four jr zoom - Centre spot DSC

1x 25-50 source four zoom for custom b size gobos projected on upstage drape...

4x ETC S4 Jrs on an advance bar available to focus as required.

2x Cold LED pinspots focused on Mirror ball located over the auditorium.

STAGING & HARDWARE SPECIFICATIONS

Stage and Set.

Configuration: End on (as standard - other configurations to be discussed)

Playing space: 5200mm front stage to rear cyclorama

Circa 6500mm to back wall

8000mm width to drapes

As the stage is flat you can encroach up to 1.5m downstage of the drapeline.

Wings: Please note we do not have physical wings, we have drapes with 1100mm width at the narrowest point and 1900mm at the widest.

Grid: Flown We have two flying rigs on motor hoists (FOH and stage).

Raising and lowering the rigs must be done only by the on-site technicians.

Height to lowest bar on Stage 6000mm, FOH 5500mm.

No Flying capability, no dynamic weight loading of the trusses

Rsjs run the length of the venue any additional rigging will require the use and sign off from a qualified rigger.

There are also 4x IWB slip rigging positions 2 each side of the auditorium in the form of wall mounted booms.

FOH grid spread load limit: 350kg

Stage grid spread load limit: 500kg

Drapes: Theatre set as standard Black box with centre cross manual pull Tabs at rear and front. Black wool serge drapes to cover wing space. Standard US/DS entrances No other cloths in stock beyond plain non-tensioned cyclorama (not hung 2022)

Backstage: Behind the cyclorama there is 1000mm of space to the rear wall. There are L/R doors to the stage. There is no traditional backstage or points for rigging or rear projection.

Floor construction: black vinyl topped sprung dance floor (**NO FIX**)

<https://uk.harlequinfloors.com/en/products/vinyl-dance-floors/harlequin-cascade/>

<https://uk.harlequinfloors.com/en/products/sprung-dance-floors/harlequin-activity/>

The floor in the Theatre is a Harlequin Activity Sprung floor with Cascade vinyl top surface covered performance floor, as such it is considered a no fix floor. Please do not drill or attach anything to it.

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Set:

~~Your set design will be expected to incorporate two separate fire exit routes for all cast members. These routes should be a minimum of 1.2m wide throughout.~~

All sets and flats must be self-supporting, we do not have braces, stage weights, or additional drapery, and incoming shows should provide their own where possible, or these can be hired and costed into our Contra Charges as required.

You may not fix into the walls

The use of any type of untreated sheet material (unless class 1 approved) such as ply, hardboard, chipboard, block board etc. is not allowed unless it is at least 18mm (3/4") thick.

The use of any type of polystyrene or expanded foam should be avoided unless it is Fire Retardant and comes with documentary proof or covered in a flame retardant finish.

Any cloth used in set construction, such as canvas or cotton sheeting should be either inherently or durably fireproof material. Please ask your supplier for the appropriate documentation to demonstrate this.

Any plastics used for set construction must be capable of passing the tests laid out in BS2782 Pt.5, methods 508A or 508D, amendment AMD 1524. Please ask your supplier for the appropriate documentation to demonstrate this.

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Existing staging packages

Lo-fi ()

£120

Suspended Edison tungsten bulbs in groups of four at various lengths spread over stage and auditorium & 4x floor lamps with uplights on rear drape

A custom gobo can be ordered at an additional cost of £95



Lo-fi (plus)

£

+ Portman p1 / robe pat 2013