School of English
Theatre Workshop

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S10 2TD

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tickets@shef.ac.uk

Technical Specifications And Plans
The School of English Theatre Workshop is a fully equipped theatre teaching and performance space. It comprises of an auditorium, green room, props store and carpentry, dressing room and control room. Two supplementary spaces are available, the Snug and Dressing room 2; there is also a costume store and wardrobe workspace located in a nearby building. The Theatre Workshop is managed by the Theatre and Productions Manager with daily operation and production work being undertaken by the Theatre and Productions team, some of whom are students employed as technical and show staff. Utilised throughout the year for academic teaching, student performances, professional workshops and cutting edge research the Theatre Workshop is a building that fulfils many roles.

There is a balcony overhang along three sides of the room. A retractable seating unit fits under the balcony at one end of the room and a retractable projection screen is fitted to the opposite end of the room; a data/video projector is suspended from the lighting rig between the two points. The balcony corridor with production offices and dimmer room is masked with black drapes attached to tab track.

What follows is a more detailed list of our equipment and capabilities; but the space is equipped with a wide variety of professional equipment and is capable of housing a variety of performance styles; these arrangements are not set in stone and we will consider all alternations and alternatives with discussion.

We look forward to seeing you soon.

Rob Hemus
The Theatre and Productions Manager
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Auditorium

The Theatre Workshop Auditorium is 9m wide by 14m long. It is an adaptive drama and theatre space with polished parquet flooring over concrete. The paint scheme and working lights are designed so the space can be used for teaching, events, workshops etc. with tab track and drapes installed to mask off walls.

The seating unit has a maximum capacity of 100 folding seats with 2 wheelchair bays (each of which removes 2 seats from the total). Each row of seats is 0.8m in depth when extended; for most purposes a bank of 60 seats allows for a reasonable sized performance space. Prolite deck is available to provide other seating options and promenade, traverse and thrust arrangements are all a possibility. Scaffolding legs of various heights including 20mm, 30mm and 60mm are stocked; guardrails and step-blocks are also available.

Access & DDA

- Building has ramped access at main doors into foyer
- Wheelchair accessible toilets
- Seating unit allows for 2 wheelchair positions in studio arrangement
- Infra Red hearing loop in Auditorium - permanent stock of 10 units
- Tactile signage
- Power assisted doors at main entrance with push pads
- Access to Auditorium is from street level.

Please Note that parking is severely restricted on Shearwood Rd. Visiting companies are asked to contact us to make parking arrangements.

Safety & Licence

- Facilities for armoury storage
- Facilities for COSSH & DSEAR Storage
- L2 Fire Alarm System with isolation capability
- Power Interrupt system for PA in the event of emergency
- Secure overnight storage (visiting companies must have own insurance)

Please Note that at this time (August 2014) all performances that are publicly accessible require a Temporary Event Notice issued from Sheffield City Council.
Dimensions & Clearance

<table>
<thead>
<tr>
<th>Item</th>
<th>Width</th>
<th>Height</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clearance to Grid</td>
<td>5.85m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clearance to Soffit Bars (Balcony Base)</td>
<td>3.05m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height to Balcony face bars</td>
<td>4.3m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height to Bar 11 (Above screen wall)</td>
<td>4.4m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Wings

n.b SL wing is exit route - no storage

<table>
<thead>
<tr>
<th>Item</th>
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<th>Height</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
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</tr>
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<td>Width</td>
<td>1.32m</td>
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<td></td>
</tr>
<tr>
<td>Diagonal</td>
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</table>

Building Access

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<td></td>
</tr>
<tr>
<td>Width</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Diagonal</td>
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</table>

Access Equipment

- 1 x Zarges Z600 Mobile Access Tower (Single Width, SWL - 200kg/m²)
  PASMA certification required for use
- 2 x 3m (1x 7 rung, 1 x 6 rung) step ladders

Spare Drapery

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Width</th>
<th>Height</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Black Gauze</td>
<td>4</td>
<td>5m</td>
<td>5m</td>
<td>Some light water damage on two of the gauzes.</td>
</tr>
<tr>
<td>White Gauze</td>
<td>2</td>
<td>6m</td>
<td>6m</td>
<td>Some light damage, nothing major.</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>2m</td>
<td>6m</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>1.5m</td>
<td>6m</td>
<td></td>
</tr>
</tbody>
</table>

Please Note that all fabric items brought into the venue must have proof of fire retardancy. (In the case of furniture a fire safety tag must be present). The Theatre and Productions Manager retains the right to test or refuse any items deemed to be a possible fire risk.
Staging Equipment

- Prolite Stage Deck (& accessories)
  - 2m x 1m (6’6” x 3’3”) [8]
  - 1m x 1m (3’3” x 3’3”) [4]
- Prolite Guard rails (all deck heights of >600mm require guard rails)
  - 2m Sections [6]
  - 1m Sections [15]
- Scaff legs (48.3mm O/D)
  - Sets of 100mm, 200mm, 300mm, 450mm, 600mm & 900mm. Most are aluminium piping with either plastic caps or rubber boots.
  - Various other lengths ranging from 1000mm to 2000mm
- Various sizes of box rostra (in various colours and shapes)
- Treads (DxWxH)
  - 460mm x 920mm x 350mm 2 step treads [4]
  - 550mm x 610mm x 440mm 2 step treads [??]
  - 460mm x 610mm x 440mm 2 step treads [??]
- Raked rostra sections 2.44m x 1.22m (8’ x 4’) with folding bases.
  - Rake from 300mm to 900mm (Gradient of 0.2)

Flats, Braces and Weights

- Black Soft Masking Flats
  - 3.05m x 1.8m (10’ x 6’) [2]
  - 3.05 x 0.9m (10’ x 3’) [2]
- Hardboard Flats
  - 2.44m x 1.22m (8’ x 4’) Ply skimmed flats [approx. 6]
  - Ply Sheets of varying thickness
- Bracing (48.3mm O/D)
  - Extendible braces with cowhorn heads, bases for stage weight or stage bolts.. 
  - Various Small A frame sections & triangle braces
- Stage Weights [10]

Please Note that due to the nature of the floor in Theatre Workshop we are only able to use stage weights, no stage bolts or screws are possible.
Show Control & Operations

Overview

Digital show control systems are linked via tie lines and DMX from several places around the auditorium, with canns points throughout at both floor and balcony level. The operations systems have been designed so one person can operate all aspects from any one location, or to have a full technical team spread out across the venue. Digital show control systems also allow for a performer to trigger lighting sound and video through a wireless presenter control allowing for a performance to be entirely self contained. There are 2 permanent show control positions; the balcony and the control room, other positions can be accommodated with discussion. Show Control is possible from anywhere in the auditorium with enough planning and cable.

Balcony Operations

The balcony has 2 possible points for show control, at the SL stage side (where the fly position is located) or from the corner of the balcony (traditionally the DSM position). The position at flys does have restricted sight lines for far stage left action and is only used when set or performance style makes using the balcony corner impossible. The DSM position has clear lines of sight for the entire auditorium in most configurations and utilising either portable show control or relocating control desks and using tie lines, DMX and VGA extensions full show control can be undertaken from both positions.

Standard Operations

The control room has no sight line to stage due to the nature of the retractable seating bank. Audio show relay and video show relay through separate systems (as a redundancy measure) allows for viewing of the auditorium in the control room. As a backup we encourage complicated shows to have a DSM in the space calling the show through canns should the show relay fail. The control room is also the hub for DMX and audio patch bays and houses main show control systems, fitted with talkback and announcement over show relay systems the control room can communicate with the auditorium directly. Given the size and nature of the space the venue does not use Q lights.
**Flying**

With a grid height of 5.85m and a balcony overhang of 3m flying in Theatre Workshop is possible if difficult. The building has no above grid height to store flying items and as such flown items are considered fixed for the show unless procedures such as kabuki drops or reveals are used. (Please note the Theatre Workshop does not have the equipment for a kabuki drop but does possess items to improvise something similar.)

- 3 sets of fixed position flying lines
  - 2 line set, positioned at the far US of the space (flown from stage level).
    - *Fitted with 6.4m aluminium scaffold bar as standard*
  - 3 line set, positioned at the far US of the space (flown from stage level).
    - *Fitted with black tabs on split track as standard.*
  - 3 line set, positioned at the US of bar 7 (mid-space, flown from balcony)
    - *Fitted with 7.44m aluminium scaffold bar as standard*

- 1 set of portable flying to make 3 line set (4 pulleys) attach to standard scaffold
  - *The fitting of these items must be undertaken by the Theatre and Productions team.*

- 16 Doughty Flying Clamps (Silver) [SWL - 340kg]
- Various shackles and assorted 3 and 2 line boating pulleys
  - *Please note these pulleys are not designed to be load bearing and are for control lines and such.*

**Health & Safety**

All those who use the space and resources are responsible for both their own health and safety and to safeguard the health and safety of others. School of English drama students receive comprehensive training and instruction before using the space. All users must be deemed competent by the Theatre and Productions Manager before working in the space.

Visiting persons are required to provide proof to the Theatre and Productions Manager upon request of any competency & safety records. I.e. PASMA training, electrical qualification, PAT testing certificates etc.
Lighting

Control & Distro

The Lighting desk is an ETC Element 40 with 500 channels, with 2 touch screen adaptable interfaces (keyboard and mouse interface available upon request). Traditionally it is housed in the control room but through DMX extensions can be relocated to 2 positions at Stage level (SL and a DS position for a production desk) and 2 positions at Balcony Level (Flys at SL and DSL corner [DSM position]).

Dimming is provided through 12 Zero 88 Betapack 3s fitted with MCBs providing 72 separate dimmable circuits. The space is fitted with 4 independent circuits at USL and USR (2 each side) which are managed from the control room and 120 15A circuits rated at 2KW. The space operates on a 3 phase input split across grid, balcony and floor level.

Working lights can be controlled from inside the space, there is a master control switch in the control room and house lights are fitted into the rig.

Lanterns Stock List

- Profiles
  - 10 x CCT Silhouettes 30 - 1000W
  - 6 x ADB Profiles A59 - 650W
- Fresnels/ P.C.
  - 8 x CCT Minuette F - 500W
  - 2 x CCT Minuette PC - 650W
  - 8 x Strand Patt 743 - 1000W
  - 2 x Strand Cantata F - 1000W
  - 4 x Strand Quartet F - 650W
  - 12 x ADB THH F - 1000W
- Floods & Parcans
  - 4 x Thomas Par 64s - 1000W (1 fitted with strobe pod)
  - 4 x Strand Nocturns - 1000W
  - 8 x Par 16 Birdies - 50W
TRS, Hardware & Gels

Theatre Workshop has a full set of gel frames, irises and bard doors for our lantern stock. A selection of pre-cut gels in common colours are available and we hold a stock of varying colour, frost and neutral density. We hold a variety of gobos and gobo holders; specific information for all lighting accessories is available upon request. Additional items can be hired/borrowed/ordered with discussion.

A selection of various 15A TRS cable is available in 3m, 5m and 10m lengths; we also have a wide variety of 13A extensions and multigangs. A small number of jumpers (13A, 15A and 16A C-form) in various configurations are available but are few in number.

• Rigging & Hardware
  ○ Various wooden floor H stands
  ○ 2 x Doughty telescopic ‘T’ Bars (4 units per bar)
  ○ 4 telescopic stands for spigot bolts
  ○ 2 generic stands for use with spigot bolts
  ○ Spare Doughty G clamps and safety bonds are available

LED fixtures

All LED fixtures are arranged to operate via a separate ring operated from a standalone PC rig operating dreamfactory Lightfactory as standard. LED fixtures can be routed through the lighting desk via the second universe to be included in a show rig.

• 6x Chroma Pulsars (16A)

Portable control & Distro

• Zero 88 Jester Desk with wheeled flightcase
• 1x Betapack 1s, 15A with DMX control (16A single phase supply)
• 2x 4 way IEC distro units, 3 pin DMX control
• 2x 6 channel DMX controllers
Sound

Control & Patching

The Sound desk is a Yamaha 01v96 digital sound desk. It can be configured in various ways but a standard configuration is outlined below. The desk inputs via 12 XLR/Balanced TRS/unbalanced inserts, 2 balanced TRS stereo in and 2tr in. With Stereo out and Monitor outs and a further 4 omni outputs, the desk can supply a possible 8 total outputs. The desk can also provide full +48V DC phantom power to 12 channels.

The Soundesk includes a full suite of digital effects, frequency control and dynamic manipulation; and can be configured with a variety of internal routing arrangements through bus and aux control. The desk has extensions for external USB and MIDI control, Word Clock and ADAT optical (8in/8out).

Show Control is undertaken from a iMac platform (2014, optical drive available upon request) running Qlab 2 with 8 way stereo outs via outboard sound card and VGA output through a thunderbolt adaptor.

Standard Configuration

- iMac running Qlab (.wav format audio) to M-Audio FastTrack Ulra 8R
- Yamaha 01v96, 6 free channels (9-16 reserved for audio card), XLR, TRS & Insert
- Stereo Output to Yamaha P5000S, Monitor Output to Samson Servo 300
- Speak-on routing to RAMSA speakers overhead mounted in Auditorium.

Patching & Tie Lines

- XLR tie lines
  - 4 x SL Wing
  - 4 x Balcony SL (near Flys position)
- Speakon Outputs
  - 2 at Stage Level (one in each wing)
    - patched to Amp1 and output to PA as standard
  - 2 at stage level (one in each wing)
    - unpatched as standard
  - 2 at Balcony Level (one in each DS corner)
    - patched to Amp2 as standard

Please note that SR wing has no XLR patching as the wing is also an exit route and cables runs cannot compromise this route.
Reserve & Stock Equipment

- **Playback**
  - Secondary Show Control iMac (2012) running Qlab2
  - Focusright Scarlet 18i6 outboard sound card
  - Fender Passport 300 All in one system (6 Channels)

- **Amplification**
  - Yamaha P5000S (XLR & TRS inputs)
  - C-Audio RA2001 (XLR inputs)
  - Studio Spares Trojan 900 (XLR & Bare end inputs)

- **Speakers**
  - 2x RAMSA speakers
  - 1x JBL Eon 500 Active Sub
  - 2x Studio Spares 221Bs
  - 2x JBL Control Ones

- **Microphones & Inputs**
  - 1x Sure SM58 (Dynamic, Cardioid)
  - 1x Audio Technica AT 818 (Dynamic, Cardioid)
  - 2x Sennheiser MD 425 (Dynamic SuperCardioid)
  - 2x AKG D321 (Dynamic, Supercardioid)
  - 2x AKG C1000S (Condensor, Cardioid/Supercardioid)
  - 2x PZM Boundary Mics (One on XLR, One on Minijack)
  - 1x Rode NT1 (Condensor, Cardioid)
  - 2x Rode Camera mount shotgun mics
  - 1x Rifle Mic
  - 2 x EMO Single Direct Injection Units

A variety of hardware is available for mics including baffles, windshields, popshields, boom stands, table stands and headphone splitters.

- **Communications**
  - Techpro Canns with Beyer headsets
    - Connections at FOH, Control Room, SL Wing, Balcony Ops, Dimmer Room and Balcony Flys
  - Audio Show Relay via Australian Monitor Amis 120 with Paging Mic
    - Speakers at FOH, Dressing Room, Control Room, Green Room, Carpentry Workshop and Production Office
  - Video Show Relay via Kramer 104LN (75ohm)
    - Relays at FOH, Dressing Room, Control room and Carpentry Workshop
Audio Visual

Overview

Using Qlab 2 on an iMac platform (necessitating .mov format video) outputting via thunderbolt converted to VGA video recordings and footage may be projected in the auditorium space using a data and Video projector rigged at grid level.

The Theatre Workshop also holds a variety of television screens and freestanding video units for use and using a Midlands Video amp/splitter sources can be distributed to these screens.

We also have a matrox triplehead VGA splitter allowing for a single VGA input to be split three ways to multiple locations.

Equipment

• Projectors
  ○ Semi-Perma Rigged Panasonic Data and Video Projector,
    ► Input via wall unit at SL wing, composite and VGA possible
  ○ 2x Small freestanding Infocus projectors.

• Televisions
  ○ 5x Freestanding Daewoo 19” DVD/TV combis.
    ► HDMI, VGA, Composite & Coaxial inputs

• Signal
  ○ Matrox Triple Head to Go VGA 1 to 3 Splitter
  ○ Midlands Video Amp and Splitter 2 into 8 (75ohm)

• Hardware
  ○ 3x Unicol Ceiling Brackets
  ○ 3x Unicol Column Adaptor
  ○ 3x Unicol Tilting Bracket
  ○ 2x Unicol Projector Suspension Units (1 semi-perma rigged)
  ○ 2x Unicol Rig Hooks (1 semi-perma rigged)
Special Effects

Equipment

• Smoke & Haze
  ○ 1x Martin Magnum DMX haze machine
  ○ 1x Jem ZR20 MRKII smoke machine

• Effects
  ○ 1x Smell machine with variety of scents
  ○ 1x Bubble machine
  ○ 1x Reflecting Effect (Water Ripple)

Other Resources

Props & Costume Supplies

The Theatre Workshop has an extensive prop and costume selection that can be used and hired by groups for a small deposit. For further information about our inventory and the availability of items please contact the Theatre and Productions Manager with your requests.

Recording Equipment

A wide of variety of audio, video and still recording equipment is owned by Theatre Workshop; we have the facility to record onto DV tape in both long play and short play, micro SDHC, SD card, flash and USB memory. Loans are available to students for academic purposes and we consider hiring to external and union groups by case, based on internal usage and what the equipment will be used for.

Editing and CAD suites

We also have a selection of editing suites and CAD platforms (Adobe CS6 suite, AutoCAD, VectorWorks and WYSIWYG) available for use. Students receive training on these platforms but can request more in-depth training from the Theatre and Productions Team. We will consider requests from non-student groups dependant on student usage.
Plans & Technical Drawings

On the following pages are A4 versions of technical plans and drawings of Theatre Workshop. Please note they are included as scale drawings but printing may take them out of scale. Printed A3 & A4 scale versions of these documents are available upon request as are CAD .dwg files.
University of Sheffield
School of English Theatre Workshop

Grid Level Circuits & IWBs

Scale 1:100 (10mm=1m)

Grid Height - 5.85m
University of Sheffield
School of English Theatre Workshop

Balcony, Soffit & Floor Circuits

Scale 1:100 (10mm=1m)

Balcony - 4.3m; Soffit - 3.3m

L2 - Black Phase
L1 - Brown Phase

Iain Orr
25-8-14
University of Sheffield
School of English Theatre Workshop

Ground Plan, Sound Rigs & Patch Panels

Scale 1:100 (10mm=1m)

Iain Orr
25-8-14
University of Sheffield
School of English Theatre Workshop

Section View
(Including Bar Heights, Seating Distances & Fly bar placements)