ARENA THEATRE WOLVERHAMPTON

Main House Technical Specifications

Technicians

Technical Manager - Steve Payne

Senior Technician (Lighting) - Tom Price
Senior Technician (Sound) – Dan Keates

Arena Theatre
Wulfruna Street
Wolverhampton
WV1 1SE

Tel: 01902 322 507

Contact Details

Box Office -		arena@wlv.ac.uk	01902 321 321
Education & Outreach -	Sam	sam.fleming@wlv.ac.uk	01902 322 646
Access and Inclusion -	Kirsty	k.povey2@wlv.ac.uk	01902 322 532
Technical Manager -	Steve	steve.payne@wlv.ac.uk	01902 322 507
Senior Technician (Lighting) -	Tom	t.price3@wlv.ac.uk	01902 322 487
Senior Technician (Sound) -	Dan	daniel.keates@wlv.ac.uk	01902 322 616

Get In

The theatre load-in door has ramped access direct to the stage area and is positioned in the far-left corner of the executive staff car park. ***The maximum width is 2.5 metres***.

Please note that the executive staff car park has a height restricted entrance.

The maximum height is 3.2 metres. The maximum width is 3 metres.

Dressing Rooms

Dressing Room 1 - 6 persons

Dressing Room 2 - 8 persons

Dressing Room 3 - 15 persons

Dressing Room 4 - 15 persons (Accessible)

Dressing Room 5 - 6 persons (Accessible)

If additional space is required, please contact the Technical Manager in advance.

Dressing Rooms & Facilities

Security -	Dressing Rooms can be locked on request.
Wash Facilities -	All dressing rooms have hand basins and showers.
WC Facilities -	All dressing rooms have toilets.
Power -	All dressing rooms have 13-amp power outlets.
Fittings -	All dressing rooms have mirrors with lighting surrounds, work surfaces, chairs and costume rails.
Communications -	All dressing rooms have show relay and paging.
Green Room -	The Green Room is situated FOH to the left of the Tilstone Studio, and is accessible through a pass-controlled door.
Wheelchair Users -	Dressing Rooms 4 and 5 are fully accessible via a lift.
Smoking -	No smoking is permitted anywhere on the premises, including the carpark and balcony, with the exception of as part of a performance (agreed with technical staff). **This includes E-Cigarettes and Vapes.**
Personnel -	A maximum of 50 persons are allowed in the backstage area, including venue staff, chaperones and performers.
Electrical Items -	Please ensure all electrical items used in the venue show a dated and valid P.A.T. label.
Wi-Fi -	Free Wi-Fi is available, please ask at the Box Office.

Stage Dimensions

Setting Line	1300mm from Row A
Stage Width	9500mm
Stage Depth from Setting Line	8000mm
Upstage Crossover	2900mm
Grid Height	4670mm
Height under Stage-Right Balcony	2200mm
Height under Stage-Left Balcony	2200mm
Stage-Right Wing Width	1270mm
Stage-Left Wing Width	1900mm (Upstage of prompt corner) 1520mm (Downstage of prompt corner)

Stage Equipment

16	12.5kg Stage Weights
9	Stage Braces of varying lengths
1	12 Rung Zarge
1	7 Rung Zarge Step-Ladders
1	5 Rung Zarge Step-Ladders
1	Genie GR-12 Runabout VPP (Licensed Users only - IPAF Category 3A)

Tabs and Cloths

White Cyclorama (on tab track). Non-Removable.

Black Tabs masking all wing entrances.

Black Tabs to cover the White Cyclorama.

Black Half-Tabs with pulley operation stage-right. 4160mm from the setting line.

Additional Stage Information

a) Black Wooden Floor

b) CCTV infra-red monitoring system with monitors located in the Control Room, all Dressing Rooms, the Green Room and above the prompt desk stage-left.

c) A Black Dance Floor is available upon request (Dance companies only).

8000mm x 8000mm in 2000mm strips

Due to the style and nature of the venue, screwing/penetrating into the stage is not permitted. No set is to be placed on the in-house dance floor.

Lighting Equipment

Dimming and Control

02	ETC Sensor3 Digital Dimmer Racks
171	3Kw Dimmers
24	3Kw hard power terminating in 16a sockets at high level and 15a sockets at low level (2Kw)
01	ETC Eos Apex 5 (24K outputs)
01	ETC Ion (6144 outputs)
01	Monitor with Display Port
01	ETC Net 3, 4 port DMX gateway (Permanent Installation)

The gateway is patched to 4 DMX Splitters, controlling up to 4 universes located in the control room. If you wish to network any ETC devices, please address your IP range to: 10.101.100.XXX, Subnet: 255.255.0.0

Lighting Equipment

Generic Fixtures

07	Strand Quartet Fresnel	650w
16	Strand Quartet PC	650w
13	Strand Cantata Fresnel	1200w
14	Strand Cantata PC	1200w
06	Source 4 15/30° Zoom	750w
24	Source 4 25/50° Zoom	750w
20	Source 4 Junior 25/50° Zoom	575w
18	Parcan CP62	1000w
02	Parcan CP62 (Short Nose)	1000w
06	Par16 “Birdie”	50w
06	ADB ACP 1001 Cyc Flood	1250w

Lighting Equipment

Intelligent Fixtures

02	ETC HES Lonestar
08	ETC HES SolaPix 19
05	LEDJ ColorStorm Quad LED Batten (Permanently mounted to floor stands)

Lighting Equipment

Houselights

GDS DMX controlled LED house lights, controllable in the following zones:

Address 1/500	Main Block
Address 1/501	Cross Aisle
Address 1/502	Rear Block
Address 1/503	House Left Balcony
Address 1/504	House Right Balcony
Address 1/505	Over Stage

Effects and Accessories

01	MDG ATMe (Permanently located in scene dock)
01	Antari Fan AF-3 (Permanently located in scene dock)
02	Doughty Tank Traps
01	14" Mirror Ball
01	Mirror Ball Rotator
01	Coda 1000w Cyc Flood
01	63a 3ø (phase) rubber box with the following outputs:
	06 16a 1ø (single phase) sockets
	03 32a 1ø (single phase) sockets
	01 32a 3ø (three phase) sockets

Additional Lighting Information

a) Lighting Control is located at the rear of the auditorium in the Control Room, this has double glazed windows and is shared with Sound Control. **(This is not sound-proof)**.

b) The Arena holds an extensive range of Lee Lighting Filters and Rosco R119 & R132 frost.

c) One 63a 3ø (phase) socket located in the upstage crossover.

d) The Arena carries a limited stock of gobos.

e) The Arena holds size A & B gobo holders for our Source 4 Zoom profiles.

f) The Arena holds a limited stock of M size gobo holders for our Source 4 Jr Zoom profiles.

Lighting Bars and Rigging SWL/UDL

Bars A & D to K -	300Kg UDL (39Kg point load)
Bar M -	150Kg UDL (39Kg point load)
Bar C -	100Kg UDL (39Kg point load)

Each unistrut is 120Kg UDL (80kg point load on any span).

There are also a number of rigging points certified for increased point loads/ performer flying. Please contact the Technical Manager for more information. Any performances wishing to utilise these rigging points must provide a detailed risk assessment for their use.

Boom Positions and UDL

02 Fixed "prosc boom" positions SL and SR, in line with Bar C, running from floor to 3615mm (with a section blocked by the balcony between 2345mm and 3170mm), 150Kg UDL (50Kg point load). Boom unit heights will be subject to adaptation.

03 Fixed install mirrored boom positions SL and SR, in line with Bars E, G, and I, with 3 arms per boom, 30Kg UDL (10Kg point load per arm). The arm arrangement can be changed subject to discussion with the Arena Theatre Technicians.

If you would like more information on our lighting systems or equipment, please contact the Senior Technician (Lighting) - Tom, or the Technical Manager - Steve.

Sound Equipment

03 d&b E12-D (Permanent FOH Installation, Left, Right and Centre)
02 d&b E15-X Subs (Permanent FOH Installation)
03 d&b E6 Delays (Permanent FOH Installation)
04 JBL 8320 (Permanent Side Surround Installation)
02 JBL 8320 (Permanent Rear Surround Installation)
05 d&b E8 (2x In “stage monitor” positions)
05 d&b D6 Digital Amplifiers
02 Crown DSi1000 Amplifiers
01 Yamaha CL5 Digital Mixing Console
02 Ro8-D Digital Output Racks (Permanent Installation)
02 Ri8-D Input Racks (Permanent Installation)
01 Rio1608-D Digital Stage Box
01 Rio3224-D Digital Stage Box
01 Dante AVIO 2Ch Analog Output Adapter
01 Dante AVIO 2Ch Analog Input Adapter
04 Sennheiser EW-DX Transmitters and Receivers (Utilising site specific frequencies)
08 Tall Boom Arm stands
08 Short Boom Arm stands
06 K&M ‘pistol grip’ Straight stands
04 Tabletop stands
04 Mackie SRM450 Active Speakers
01 8-Way Headphone Amp
01 Behringer 8-Way DI Box
04 Behringer Single DI Boxes

Microphones

06 Shure SM57
07 Shure SM58
02 audio-technica AT040
01 AKG Perception Live Groove Pack - Drum Mic Set:
01 AKG P2, 03 AKG P4, 02 AKG P17
04 EV N/D468
02 AKG C451b
01 Pulse PM580S
01 AKG D112
03 AKG C1000 S

Additional Sound Information

a) Sound Control is located in the Control Room at the rear of the auditorium. It has double glazed windows and is shared with Lighting Control. One window in front of the Sound Control position can be opened. **(This is not sound-proof).**

b) The Sound Desk may be moved into the auditorium off to the far house-left side.

c) Monitor speakers are wired into a patchable speakon rack located in the Control Room.

d) In-House Radio Microphones have both Handhelds and Headsets/Lavalieres available. They are tuned to a venue specific licensed frequency. Please see below:

- 526.200
- 526.700
- 527.350
- 528.150

e) A direct Sound Desk feed can be fed into comms to assist with hearing show content for cueing etc.

If you would like more information on our sound systems or equipment, please contact the Senior Technician (Sound) - Dan, or the Technical Manager - Steve.

Projector / A.V.

01	Panasonic PT-RZ970 Laser Projector - controllable by ArtNet (Permanent Installation)
01	Extensa Tab-Tensioned Cinema-Grade Roller Screen (Permanent Installation)
01	Oppo UDP-203 Ultra-HD Blu-Ray Player (Permanent Installation)
01	Datasat AP25 Audio Processor
01	Kramer VP-729 Scaler/Switcher
02	16” M1 Max MacBook Pro with QLab 5, Dante Virtual Soundcard and Dante Via

The projection system inputs on HDMI via Extron DTP Tx/Rx units. The system is capable of handling up to 7.1 surround sound with all processing taking place via the Datasat AP25. Inputs into the projection system are available in the following locations:

- Control Room (next to sound desk)
- External Control Position (house-left of auditorium)
- Downstage Left
- Downstage Right

Live Stream Equipment

01 Blackmagic Design ATEM 4 M/E Broadcast Studio 4k
01 Blackmagic Design ATEM 1 M/E Advance Panel
01 Blackmagic Design Hyperdeck Studio Mini
01 Blackmagic Design Web Presenter 4K
01 Blackmagic Design Web Presenter HD
01 Blackmagic Design UltraStudio 4K Mini
01 Blackmagic Design Teranex Standards Converter
01 Blackmagic Design URSA Mini Pro 4.6k G2 (Permanent Install grid position)
03 E image EK650 Tripod with Fluid Head
01 Sigma 14-24mm f2.8 lens (On fixed camera in the grid)
02 Sigma 24-105mm f4 lens
01 Apple MacBook Pro 2015, running MacOS Ventura
01 22" 4K Multiview Monitor
01 Blackmagic Design Teranex Mini 12G SDI to HDMI
03 Blackmagic Design Micro Converter BiDirectional SDI/HDMI 3G
01 Blackmagic Design UltraStudio Recorder 3G
01 Blackmagic Design Mini Converter SDI Distribution 4K (Permanent Install)

Camera Patch point locations

01 Downstage Left
01 Downstage Right
01 Upstage Centre
01 Auditorium House Left (External Sound position)
01 Auditorium House Right (House Manager position)

All cameras use 2 SDI feeds in each position, 1 for signal and 1 to control the camera.

Additional Information

The Blackmagic system is 12G ready, capable of up to 2160p (4K) at 60fps. We have the capability to stream 2 feeds simultaneously (for instance a clean feed in 4K and a BSL feed in 1080p) as well as record at the same time.

If you would like more information on the AV or Live Streaming systems, please contact the Senior Technician (Sound) - Dan, or the Technical Manager - Steve.

Accessibility

01	Audio Description Workstation (Microphone, sound desk & dedicated show relay)
01	Sennheiser infra-red Audio Enhancing System (Permanently installed to show relay)
19	Sennheiser Tour-Guide Headset Receivers
02	Sennheiser Tour-Guide Transmitters

If you would like more information on the Audio Description & Accessibility systems, please contact the Senior Technician (Sound) - Dan, or the Technical Manager - Steve.

Health and Safety

As part of our health and safety policy, an Arena Theatre Technician will conduct a safety briefing with all staff working on the production before the get-in commences. The aim of the briefing is to introduce the key members of our technical staff, inform your staff of all evacuation procedures and draw their attention to any other possible hazards and policies that may be relevant to the production. This briefing is also an opportunity to introduce your staff to the house crew and discuss the schedule for the day.

A further briefing should take place with all members of the company on their arrival. This should take place in the auditorium and all technical work on stage should stop at this point for the briefing to take place. This briefing must always happen no later than 30 minutes before the house opens.

Arena Theatre Technical Staff will provide information on In-House Health & Safety Policies as required (copies available on request). Arena Theatre Health & Safety Policies must be followed at all times. Special consideration must be given to Working at Height, Electrical Safety and Rigging/ Suspended Equipment.

It is the responsibility of the visiting company to ensure all equipment and items bought into the Arena Theatre are in a safe and suitable condition for use in a professional environment. This means all rigging equipment bought into the venue should have a SWL marked on it and all electrical equipment should show a valid P.A.T. sticker. Any equipment that does not have the above may be deemed unsafe and will not be used if this is the case.

Audio Levels and what is deemed “too loud” is at the discretion of Arena Theatre staff. Levels will be reduced/requested to be lowered if the audio level is too high.

Arena Theatre Technicians have the final say over all matters relating to Health & Safety and have the right to refuse use of any equipment, practices or other items they deem to be unsafe.

If you would like more information on Arena Theatre Health and Safety or to send Risk Assessments please contact the Technical Manager.

For any further information on the specifications outlined in this document, contact the relevant department for your query using the contacts on Page 1, or as outlined throughout the sections in the document. The Technical Manager will also answer any questions.