

# 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

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### Contact Details

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Education & Outreach -	Sam	<a href="mailto:sam.fleming@wlv.ac.uk">sam.fleming@wlv.ac.uk</a>	01902 322 646
Access and Inclusion -	Kirsty	<a href="mailto:k.povey2@wlv.ac.uk">k.povey2@wlv.ac.uk</a>	01902 322 532
Technical Manager -	Steve	<a href="mailto:steve.payne@wlv.ac.uk">steve.payne@wlv.ac.uk</a>	01902 322 507
Senior Technician (Lighting) -	Tom	<a href="mailto:t.price3@wlv.ac.uk">t.price3@wlv.ac.uk</a>	01902 322 487
Senior Technician (Sound) -	Dan	<a href="mailto:daniel.keates@wlv.ac.uk">daniel.keates@wlv.ac.uk</a>	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)

*N.B. - If additional space is required, please contact the Technical Manager in advance.*

## Dressing Room 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). <b><u>This includes E-Cigarettes and vapes.</u></b>
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 control room, all dressing rooms, 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

*N.B. - 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 HDMI & Display Port (limited stock of additional monitors available on request)
01	Net 3, 4 port DMX gateway (permanent installation)

*N.B. - 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
10	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
13	Parcan CP62	1000w
06	ADB ACP 1001 Cyc flood	1250w

## Lighting Equipment

### Intelligent Fixtures

02	ETC HES Lonestar
08	ETC HES SolaPix 19

## 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
04	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 cross over.
- d) The Arena carries a limited stock of Gobo's.
- e) The Arena holds size A & B Gobo holders for our Source Four Zoom profiles.
- f) The Arena holds a limited stock of M Gobo holders for our Source Four Junior Zoom profiles.

## Lighting Bars and Rigging SWL/UDL

Bars A & D -> 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 (marked on plans) 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

- 01 Fixed "prosc boom" position 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, 3 arms per boom, 30Kg UDL (10Kg point load/per arm). These booms positions can be changed subject to discussion with the Arena Theatre technicians.

## 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 Rack (Permanent Installation)
02	Ri8-D Input Rack (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)
10	Tall boom arm stands
10	Short boom arm stands
04	Straight stands
04	Table-top stands
04	Mackie SRM450 Active Speakers
01	8way Headphone Amp
01	Behringer 8way 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

## **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 4, 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

## **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. One window in front of the sound control position can be opened.
- 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 either comms (to assist with hearing show content for cueing etc) or into the paging system to be fed to the dressing rooms (in place of the standard show relay microphone) improving the clarity for shows with louder sound levels such as musicals and live music.



## **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 (Fixed 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	21" Apple iMac running MacOS Catalina
01	22" 4K Multiview monitor
01	Blackmagic Design Teranex Mini HDMI to 12G SDI
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

## **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)

*N.B – 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 are interested in using this equipment or have any technical queries, please contact the Technical Manager.

## **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 Tourguide Headset Receivers
- 02 Sennheiser Tourguide Transmitters

*N.B. - If you require any further information on the Induction Loop or Audio Description please contact the Technical Manager.*

## 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.

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 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 may not be used.

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