



MAIN HOUSE TECHNICAL SPECIFICATION

WELCOME TO SHERMAN THEATRE



Photo: Kirsten McTernan

We really look forward to welcoming you to Sherman Theatre and hope that this Technical Specification Pack will help give you all the information you need for your time with us at Sherman.

Our friendly and professional Production Team have a wealth of experience and knowledge and look forward to working hard with you to ensure that your event or production is a success.

Our Welcome Pack, also available on our website, will provide you with some more information about Sherman, our facilities and the local amenities – please download this and distribute it to your company members.

In order for us to prepare for your visit and ensure everything runs smoothly please provide us with the following information at your earliest convenience or at least 4 weeks prior to your visit

- Ground plan with flying plot
- Venue specific lighting plan
- Current PRS information sheet
- Current risk assessment for the production, including method statements for the construction of any set, and its use during performance.
- Schedule outlining timings and crew requirements of anticipated calls and working sessions.
- Vehicle packing diagram including estimated weights

A list of our house stock of stage, lighting, and sound equipment is included in this handbook. Please feel free to discuss with us any further equipment you may need to hire locally, we can arrange this and recharge via the contra. Due to our busy schedule of productions there may be occasions when house equipment is unavailable or may be replaced with an equivalent, rest assured that any changes will be discussed with you to ensure your production is served.

Any electrical appliance brought into Sherman Theatre must carry a current PAT certificate.

Please ensure that this handbook is made available to your technical staff, and refer to this information when completing the Event Deal Memo.

OUR PRODUCTION TEAM CONTACTS AT SHERMAN

Head of Production and Planning	Mandy Ivory-Castile (She/ Her) mandy.ivory-castile@shermantheatre.co.uk 02920 646 989
Technical Manager	Rachel Mortimer (She/ Her) rachel.mortimer@shermantheatre.co.uk
Company Stage Manager	Josh Miles (He/ Him) josh.miles@shermantheatre.co.uk
Workshop Manager	Matt Carter (He/ Him) matt.carter@shermantheatre.co.uk
Box Office/ Reception	02920 646 900

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Photo: Mandy Ivory-Castile

ACCESS FOR LOADING

Access to the Main House is through a covered exterior loading bay which faces a side road off Senghennydd Road. This is large enough for a 40' articulated wagon, though the reverse in for larger vehicles is awkward due to the width of the side road. The what3words address for the dock is ///spider.cards.crisp

The get in door is raised by 1.45m from the car park level. We have a moveable ramp with raised edges (length 5m, width 1m). The door measures 2.7m x 3.5m and leads to an interior loading bay with approx. 15m level access to stage. Please provide any manual handling aids required for any unusual set pieces, and ensure the appropriate number of crew are called to safely facilitate loading/unloading. Please provide us with details of your touring transport in advance so we can ensure space is allocated in or outside the loading dock.

Apologies, but there is no parking available for private cars. Please see our website (<https://www.shermantheatre.co.uk/your-visit/>) for details on how to get to us by public transport or car, and for up to date information of parking deals available with local car parks.

MAIN HOUSE AUDITORIUM

The Main House auditorium seats 452 on one raked tier.

There is a safety curtain which must be shown to an audience member once during the course of the performance (usually at house open or during the interval). The safety curtain line must be clear of any large set pieces/props which are not easily moveable.



Photo: Kirsten McTernan

STAGE DIMENSIONS

Proscenium width	11.66m	38' 3"
Depth excluding forestage	10.64m	34' 11"
Depth of forestage	3.0m	9' 10"
Max. depth Inc. forestage	13.64m	44' 9"
Ht. of pros. Bridge	5.53m	18' 2"
Grid height	14.4m	47' 3"
Flying height	13.7m	45' 1"
Flying drift	12.95m	42' 6"
Clearance under fly floors	6.0m	19' 8"
Length of c/w bars	15.85m	52' 0"
SWL of bars	375kg evenly distributed	
Width between fly floors	17.5m	57' 5"
Wing space under fly floors - SL	1.35m	4' 5"
Wing space under fly floors - SR	5.05m	16' 7"
Forestage lowers to max.	2.1m	6' 11"

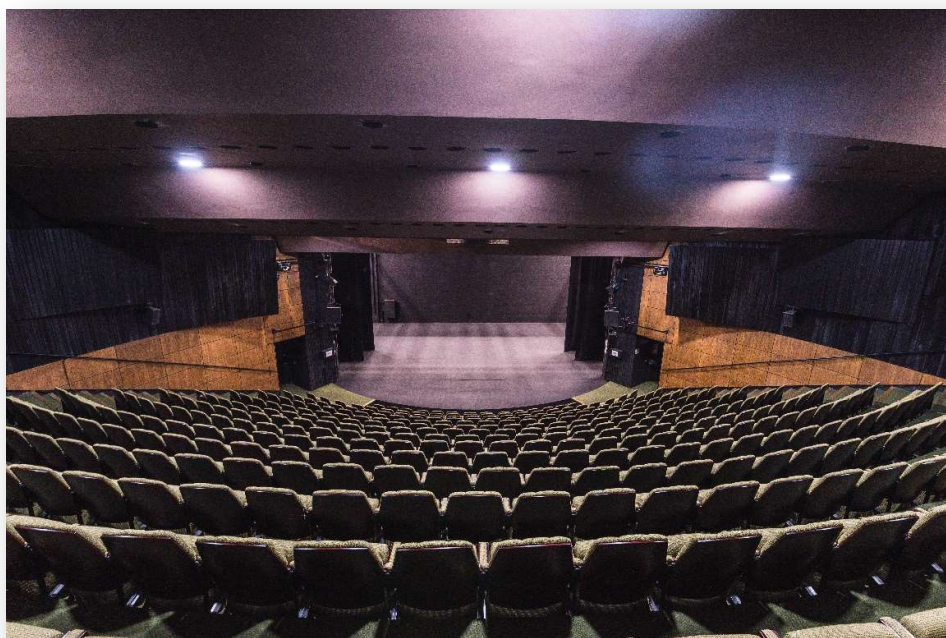


Photo: Kirsten McTernan

ORCHESTRA PIT

The forestage lowers to 2.1m below stage level. It can also be positioned at intermediate heights. We have 4 standard set ups available:

Forestage at stage level

Forestage at row A level 400mm

Small Orchestra Pit: Semi Circle, 3500mm Centre Depth, 11650mm Width

Large Orchestra Pit: (Requires row A to be taken off sale) Semi Circle, 4800mm at centre depth, 11650mm width.



Photo: Kirsten McTernan

DRESSING ROOMS

Our dressing rooms are shared between the Main House and Studio theatres. Please discuss with the Production Team or see your Event Deal Memo to find out which dressing rooms are allocated to you. Dressing rooms 1, 2 and 4 are closest to, and so usually used for, the Main House, dressing room 3 is closest to the Studio

All dressing rooms are accessible via lift (see notes below), and are furnished with sinks, costume rail(s), storage units (one per seat), dressing tables, and lit mirrors. Showers and toilets (including accessible disabled toilet/ wet room) are available in close proximity to each dressing room, but are not for sole use of the dressing rooms.

Dressing Room	Location	Capacity	Accessibility
1	Level 1, One floor above Main House stage level	7	FROM MAIN HOUSE: Accessed via stairs or lift. Please note lift access is via FOH, and should not be used during a performance.
2	Level 1, One floor above Main House stage level	7 / 8	FROM MAIN HOUSE: Accessed via stairs or lift. Please note lift access is via FOH, and should not be used during a performance.
3	Close to Studio	8*	FROM STUDIO: Ground level access
4	Basement level, one floor below Main House stage level	13	FROM MAIN HOUSE: Accessed via stairs or lifts. Lift to stage level may be used during performance

*Dressing Room 3 has dividing screens that can be used to split room down the middle (four seats each side) for privacy.



Photo: Kirsten McTernan

COMMUNICATIONS

Show Relay to all backstage areas

TechPro wired comms system with patch points distributed around the space

GDS prompt desk with following facilities:

Cue lights, pre-recorded front of house calls, backstage calls.

The prompt desk can be located in SL or SR wing, or auditorium centre for technical rehearsals.

Backstage calls also can be made from wall panel DSL, or lighting control room.

INFRARED ACCESS SYSTEM

We have an Infrared system to provide show relay to hearing impaired customers via headset.

Audio Description can be transmitted via same system.

The Audio Description source unit is located in a central booth at the rear of the auditorium next door to the lighting control room.

STAGE DRAPES

Legs

1 pair of 4.5m x 8m

1 pair of 4m x 7m

2 pairs of 3.5m x 7m

1 pair of 3m x 7m

Borders

2 of 15m x 3m

2 of 15m x 2.5m

1 of 15m x 2.2m

Miscellaneous

1 of 14m x 7m full tab

2 of 7.5m x 7m half tabs

1 of 15m x 8m cyclorama (white back projection screen)

16 of 6m x 1.4m masking flats

Various smaller masking flats suitable for quick change areas etc

Large number of stage weights and braces

We have nine (1300mm x 6000mm) up and down soft masking legs on a tab track, on the underside of the fly floor, both sides of the stage (four SL and five SR).

ACCESS EQUIPMENT

Tallescope max basket floor height 5.9m (max reach height approx 7.9m)

Please note the tallescope requires two members of staff to operate in addition to the person in the basket.

12 rung Zarges Skymaster industrial combination ladder

10 rung Zarges Skymaster industrial combination ladder

Various small industrial platform step ladders (5 step, 6 step, 7 step and 10 step)

POWER

Miscellaneous touring power

Located USR all with RCD protection

200a Powerlocks

125a TPN Ceeform

3x 63a TPN Ceeform

LIGHTING EQUIPMENT

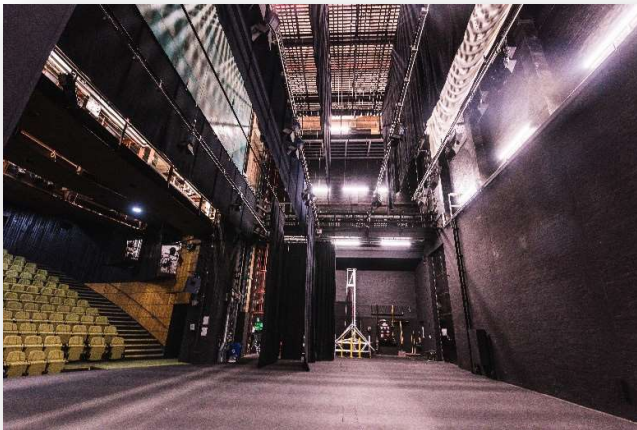


Photo: Kirsten McTernan

Dimming and Control

Desk: ETC Ion Xe20, iPad remote available. Max 12,488 addresses.

The Ion outputs sACN to a Cameo Xnode8, which outputs up to 8 universes of DMX. By default, universe 1 is routed to in-house dimmers.

3x 10way DMX splitters located in the control room, which can be patched to facility panel outputs as needed.

The lighting control room is situated at the rear, auditorium right.

The lighting desk may be placed at sound control position at the rear of the auditorium, or in the centre of the auditorium for technical rehearsals.

All Dimmers are ADB Eurorack 60 Digital Dimmers

257 ways of 10amp dimmers (15a sockets, some panels also have Lectriflex 6 way multi outputs)

12 ways 20amp dimmers (32a sockets)

Please note we have no 16a outlets, any fixtures with 16a plugs must have adaptors to 13a or 15a, of which we have limited stock.

All dimmers can be set to 120v or non-dim, however we have no relayed non-dim power.

IWBs

We have five 14m 18 circuit IWBs, (one of these has paired groups of 4 for the cyc floods),

and three 8m 12 circuit IWBs. We can move which bar they are on but they cannot be de-rigged.

Facility Panels

There are facility panels located around the stage and auditorium which have connections for the following, in various combinations: dimmers, 5 pin DMX, cue lights, props table lights, intercoms, microphone inputs, audio tie-lines, speakon, ethernet/ethercon, miscellaneous power 13a sockets and sound power 13a sockets.

We have a large stock of 15a extensions, and Lectriflex multicore with 15a fan in/outs. We have a good stock of 5 pin DMX which is shared with the Studio. We have a small stock of powercon extensions and couplers, shared with the Studio.

Dimmers are distributed as follows:

100	10a ways SR Flys (15a sockets and Lectriflex multis to IWBs)
20	10a ways SL Flys
20	10a patch sockets on each FOH bridge
5	10a patch sockets above sound position in auditorium Bridge and sound position sockets are hard patched at the side of the bridges with a total of 41 ways available
6	10a ways in each FOH slot (2 slots each side of the auditorium)
18	10a ways on stage SR, mirrored up and downstage
18	10a ways on stage SL, mirrored up and downstage
6	10a ways each side of pros arch 1.5m up wall
6	10a ways each side of pros arch near higher goalpost bar
6	10a ways each side behind the pros arch
12	10a patch sockets in Orchestra Pit, Orchestra Pit sockets are hard patched to dimmer outlets behind the pros arch
6	20a ways SR Flys
4	20a ways SL Flys (2 mirrored SR and SL)
1	20a way on stage SR, mirrored up and downstage
1	20a way on stage SL, mirrored up and downstage

Lanterns and Effects

10	ETC Colorsourc Par Deep Blue (narrow round, medium round, narrow oval, medium oval diffusers available)
8	ETC Source 4WRD Color II Zoom profile (15-30°)
10	ADB 2kw PC
30	ADB 1.2kw Fresnel
10	ADB 650w Fresnel
14	DS104 ADB 1.2kw Zoom Profile (15-31°)
10	DW104 ADB 1.2kw Zoom Profile (15-42°) (Please note the ADB 1.2kw profiles are located on the front of house bridges, please avoid using large numbers overhead)
8	ETC 750w Source Four Fixed Beam profile 36°
10	ADB 650w Profile (18-38°)
18	ETC 575w Source Four Par (P60, 61, 62, 95 equivalents available)
30	PAR64 1kw Long Nose (CP60, 61, 62, 95 sizes available)
10	PAR64 1kw Short Nose Floor cans (lamps as above)

8	ADB 4 Cell/1.2kw Asymmetrical Floods flown only (2x2 unit)
8	ADB 4 Cell/1.2kw Asymmetrical Floods groundrow or flown (4-in-a-row unit)
20	ADB 1.2kw Asymmetrical Flood
Additional items shared with the Studio, these will be allocated on a first come, first served basis:	
4	ADB 5k Fresnels (limited 32a cable for these)
6	Single circuit 10 lamp birdie battens
2	ETC 750w Source Four Fixed Beam 50°
2	ETC Source Four lens tubes 19° (to replace 36° or 50° tubes)
2	PAR36 4way Aeros (on 1m bar)
4	LEDJ 12Q5 Slimline batten RGBA
	Various 240v and 12v Birdies
	A selection of boom bases, arms and scaff poles
Additional equipment subject to availability and weekly hire charge:	
2	Unique 2.1 Hazer
1	Look Solutions Viper NT Smoke Machine
1	Low smoke machine (requires ice)
1	Martin Atomic 3000 DMX controllable strobe
2	Robert Juliat Ivanhoe 2.5kw HMI followspot with ballast and stand (if an additional crew member is required for followspot operation this will be charged to the visiting company contra account).
1	Dual gobo rotator
2	Fixed speed single gobo rotators



Photo: Kirsten McTernan



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SOUND EQUIPMENT



Photo: Kirsten McTernan

The control position is placed centrally at the rear of the auditorium.
Touring desks may be placed at this position by prior arrangement.
Straight line distance from the iron line to sound control position 18.7m

Sound Power

Located DSR all with RCD protection
125a SPN Ceeform
2x 63a SPN Ceeform
Distro from 63a to 1x 32a, 4x 16a

Mixer

Yamaha DM7 with onboard Dante; permanently situated at sound control position.
Yamaha Tio stage box located DSR (16 in, 8 out). There is a 2 way ethernet loom run permanently between sound control position and DSR.

Permanent PA

We have a Duran Audio Axys self-powered system consisting of 2x T-2115 and 2x U12 flown one on each side of the prosc. A centre cluster made up of 2x Duran Axys T-2112 positioned behind Bridge 1 with a gauzed window. 2x Duran B-07 sub woofers located in a niche either side of the prosc.

All are permanently positioned in the auditorium

We also have subject to availability
A selection of Martin W3, JBL control 1, and QSC K8 speakers for spot effects or foldback.
EM26 speakers located around the auditorium.

Sources

Selection of microphones including:

SHURE SM58, SM57
AKG SE 300B with CK91, 93, 98 Capsules
DPA 4099 piano mics
Various DI boxes

We have a large stock of XLR cable, and a small stock of speakon cable, which are shared with the Studio.

Additional equipment subject to availability and a weekly hire charge:

Racked Qlab 5 system of Mac Mini and Scarlett 18i20 soundcard with backup
Sennheiser radio mic system consisting of 8 ew300 receivers with RF splitter and 2 remote aeriels, 8 sk300 bodypack transmitters, black lapel mic heads, beige headset mic heads, 2 E835 handheld transmitters.

CHARGES

Pre-rig

Agreed on a show by show basis, hours will come from your contracted hours.

Additional Staff

Excess hours setting up above contracted 8 hours £16 per hour

Time and a half after 9 hours in a day, double time rate between 11pm and 9am and all day Sundays and Bank Holidays

£64 per minimum 4hr session per person

Sundays at double-time

Missed meal break @ £32

Change of Call

If staff are requested to work extra hours or changed hours without at least 24 hrs warning the following charge will be incurred:

Triple Time thereafter or quadruple time if already at double time rate.

Get Out

First 2 hours per person @ £82.44 (BECTU/TMA Rate) + VAT

Per hour thereafter @ £41.19

+ ENIC and Holiday Pay (Currently 13%)

EQUIPMENT

Sennheiser Radio Mics	£15 per channel per day £30 per channel per week
Colour	£5.25 per sheet
Projector	
Optoma Ultra Short Throw 4000lumens	£100 per day
Effects Equipment	
Flash Boxes (per way) per week	£6.55
2x Unique 2.1 hazer	£30 per week
Viper NT Smoke Machine	£30 per week

MAIN HOUSE TECHNICAL SPECIFICATION

Smoke Fluid	£10.40 per litre
Haze Fluid	£10.40 per litre
15" Mirror Ball	£6.55 per day
Piano Hire	
Upright Piano	£90.00 (inclusive of 1 x tuning)
Concert Grand	£120.00 (inclusive of 1 x tuning)
Recording Facilities	
Studio Hire	£38.95 per session
Sound Engineer	£16 per hr.
Rehearsal Room	
	By arrangement with Admin
Stage Supplies	
Gaffa Tape	£7.83 per roll
PVC Tape	£1.95 per roll
5lit. black emulsion paint	£30 per tin
5lit. Alipruf	£38.95 per tin
Black sash/sash	£1.30 per m.
Screw/Nails	£13.50 per box
Dance Floor	
10m x 10m Harlequin black floor	£65 total lay

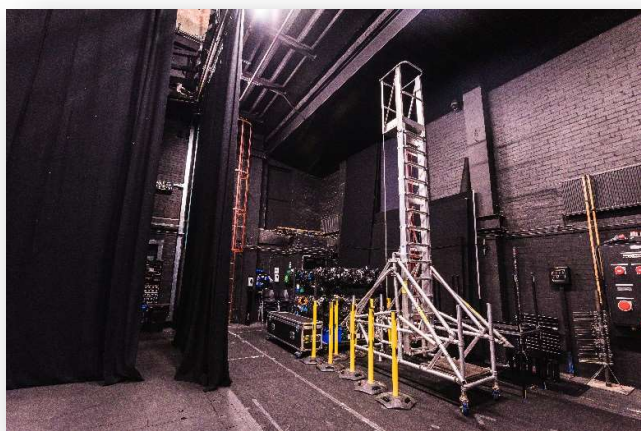


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IMPORTANT NOTES

Please be aware that to comply with the current Electricity At Work Regulation, ALL Electrical Appliances MUST HAVE a current PORTABLE APPLIANCE TEST CERTIFICATE

The use of equipment not certified is prohibited at Sherman Theatre

We do have the facility to P.A.T. test equipment at a cost of

£4.55 per item

£10 per item for remedial repair (plus cost of parts)

£4.55 per item for a re-test.

Please contact Head of Production and Planning or Senior Electrician if you have any queries.

The Sherman Theatre operates a HARD HAT POLICY

Hard Hats must be worn by all persons working on the stage floor when work is being carried out in the grid.

Hard hats are provided for your own protection. We would really appreciate it if you and your team used them.

Damage to any Equipment

The full cost of equipment repairs necessitated by misuse, rough treatment, or incorrect operation, will be charged to the visiting company, so please ask a relevant member of staff if in doubt.

Scenery and Props

All scenery, props and drapery must comply with current theatrical fire policies and be constructed from fire proof materials, or made inherently fire proof. Sherman Theatre reserves the right to perform checks on any scenery prior to performance.

Sherman Theatre cannot be responsible for any loss incurred either artistic or monetary by failure to comply with its safety regulations and building policies. Visiting companies are responsible for ensuring that their staff visiting Sherman Theatre are made aware of these policies.