



# TECHNICAL SPECIFICATIONS

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# STUDIO THEATRE

## TECHNICAL INFORMATION

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### SEATING CONFIGURATION

The standard seating provides 200 seats on a retractable automated system. Retracting or adding number of seats is subject to venue management's discretionary approval. All related costs of reconfiguration from standard seating will be borne by the venue hirer.

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\*End-thrust mode

Standard Seating: 200

Max Seating: 220

### STAGE SPECIFICATIONS

Floor composition: 6mm moisture resistant MDF over 2 layers of 18mm plywood and 50mm semi sprung battens

Performance Area (Standard Seating): 12.8m(W) x 6.5m(H) x 10.5m(D)

Stage maximum laden weight load: 7kN/m<sup>2</sup>

Stage Floor to Beam: 6.65m(H)

Stage Floor to Lighting Pipe: 7.7m(H)

Stage to Mezzanine level: 5.69m(H)

### ELECTRICAL SPECIFICATIONS

Dimmable Output: 3kw ThruPower Modules (Dimmer)

Non-Dimmable Output: 3kw ThruPower Modules (Relay)

Local Electrical Power Supply: 400 volts, 3-phase, 50 Hz & 230 volts, Single-phase, 50 Hz

Available Power Output @ Stage Right (LEW endorsement and single line drawing required):

General Usage: 3 x 63amp & 1 x 125amp 3-phase

Sound Usage (Technical Earth Power): 1 x 63amp 3-phase | 1 x 32amp & 1 x 63amp Single-phase

Available Power Output @ Grid: (LEW endorsement and single line drawing required)

General Usage: 1 x 16amp, 1x 32amp & 1 x 63amp 3-phase

### **STAGE MANAGER'S DESK**

Equipped with intercom, backstage & FOH paging system and video monitor selector.

### **INTERCOM SYSTEM**

Clear-Com Intercom system that links stage manager's desk, side stage and control area.

### **DRESSING ROOM SPECIFICATIONS**

Each dressing room is equipped with:

Audio & video stage relay systems

Paging system (from Stage Manager's desk @ Mezzanine Control Area)

Shower facilities, washrooms & tabletops with mirrors and vanity bulbs.

Access to the dressing rooms is via backstage only.

Common male & female toilets can also be found along dressing room corridor.

No. of Dressing Rooms: 2

### **LOADING BAY**

The loading bay can be accessed from Kirk Terrace via Prinsep Street.

Loading access to the Studio Theatre is through a passageway door\* to a cargo lift and then through another passageway to the backstage doors.

Loading Access Dimensions:

Entrance to Loading Dock: 8m(W)

Loading Area: 9m(W) x 5m(H)

Elevated Dock: 5m(W) x 1.3m(H)

Passageway Doors: 2.8m(W) x 2.9m (H)\*

Passageway: 2.2m(W) x 2.9m (H)

Cargo Lift: 2.9m(W) x 2.5m(H) x 3.1m(D)

Maximum Laden Weight Load: 5kN/m<sup>2</sup>

## DEPARTMENTAL INFORMATION

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At SOTA, we are able to accommodate changes to the house audio, lighting, staging and/or video plots, within reason. However, prior approval must be obtained from the production coordinator and technical manager with plans submitted before production meeting. Expenses related to setting up and reinstating of the venue will be borne by the hirer.

If the production requires equipment and/or instruments outside of SOTA's inventory, the hirer may engage an external contractor to provide them. All charges related to extra equipment will be borne solely by the hirer.

SOTA does not take any responsibility for external contractors' rented equipment operation, malfunction or damage which may occur during usage within the venue. Hirer must have an operator or representative from the external contractor to manage their equipment.

## AUDIO

### AUDIO SYSTEM SPECIFICATIONS

A standard pre-rigged, aligned, and pre-tuned audio configuration exists.

All expenses related to reinstating the standard rig from any amendments will be borne by the hirer.

Item	Description	QTY
Audio Mixer	Yamaha DM7 + CTL-DM7 Control Expansion with Rio 3224-D - 64 mono inputs available - 28 mix out, Matrix	01
FOH Loudspeakers	Main PA(L/R): Yamaha DZR D12	04
	Subwoofers: Yamaha DXS XLF 18	02
	Front Fill: Yamaha DZR D10	02
CD Playback	Denon DN4500	01
CD Recorder	Tascam SSCDR200 (USB input available)	01

### AUDIO INVENTORY

Item	Description	QTY
Wireless Mic System	SHURE UR4D+ Wireless Receivers*	10
Handheld Transmitters	SHURE UR2 Handheld Transmitter w/ SM58 Capsule	10
Bodypack Transmitters	SHURE UR1 Bodypack Transmitter	10
Wireless Lavalier Mics	SHURE Lapel Clip-on mic	04

\* Please note that any combination of up to 10 wireless mics may be used at any one time.

## VENUE WIDE INVENTORY - AUDIO

All items from the venue wide inventory are subject to availability.

Charges may apply to certain items.

Prior arrangement and confirmation are required.

Item	Description	QTY
Rio1608-D2	I/O rack	02
Countryman E6	Wireless Earset Microphone	08
Countryman B3	Lavalier Microphone	08
DPA 6061	Clip-on Microphone	12
DPA D: VOTE 4099	Instrument Microphone (Violin, Piano, Trumpet, Saxophone, Guitar and Microphones Stand Mount clip accessories available)	06
DPA 4097	Supercardioid Choir Microphone	03
DPA 4288	Headworn Microphone	12
SHURE MX 418 C-X	18" Lectern Microphone with base	02
Shure SM58	Dynamic Vocal Microphone	15
Shure SM 58 S	ON/OFF Switch	03
Shure SM57	Dynamic Instrument Microphone	12
Shure Beta 98D/S	General Instrument Microphone	08
Shure Beta52	Dynamic LF Microphone	02
Shure SM81	Condenser Microphone	10
Shure UR3	Microphone Plug-on Transmitter	CH: 02 DT: 02 ST: 04
Sennheiser MD-421	Dynamic General Microphone	03
Sennheiser E608	Dynamic Microphone (brass, drums and woodwind)	03
Sennheiser E902	Dynamic Microphone (low-end instruments)	04
Sennheiser E904	Dynamic Microphone (Drums and Percussion)	08
Sennheiser E906	Dynamic Microphone (Percussion and guitar amplifiers)	08
AKG C414	Condenser Microphone	08
AKG C451-B	Condenser Microphone	02
AKG C411 PP	Contact Microphone	12
Neumann KM 184 MT	Condenser Microphone	08
Crown PCC-160	Boundary Microphone	12
Audio Technica ATU857Q	14" Lectern Microphone	04
Audio Technica ATU857QL	18" Lectern Microphone	01
Audio Technica AT8615RS	Lectern Base	05
Yamaha DZR'12	Monitors	06
Yamaha DZR'10	Monitors	10
K&M 25600	Telescopic boom arm tall microphone stand	30
K&M 259	Low-level telescopic short microphone stand	20
K&M 232	Table microphone stand	13

Item	Description	QTY
Jamstands	Round Base Microphone Stand	04
Ultimate Support	Triangular Base Microphone Stand	06
K&M	Heavy Duty Speaker Stand	06
BSS AR133	Mono DI Box	08
Radial Pro AV2	Stereo DI Box	05
Radial Pro AV1	Mono DI Box	05
Radial J48 Stereo	Stereo DI Box	02
Radial J48 Single	Mono DI Box	05
DSAN LSP1	Mono Laptop PC Port	03
DSAN LSP2	Stereo Laptop PC Port	03
Interspace PCBB3	PC Balance Box	08
Xvive U3C	XLR Plug-on Wireless System for Condenser Microphone	06

## LIGHTING

### LIGHTING SPECIFICATIONS

The venue does not come with any pre-rigged lighting fixtures.

All expenses related to rigging and reinstating the empty rig will be borne by the venue hirer.

Item	Description	QTY
Lighting Console	MA Lighting GrandMA 2 Light	01
House Light Control	ETC Paradigm Touch Screen Panel	03
Dimmable Output	3kw ThruPower Modules (Dimmer) - Stage Level: 34 units - Mezzanine Level: 22 units - Grid Level: 108 units	164
Non-Dimmable Output	3kw ThruPower Modules (Relay) - Stage Level: 02 units - Grid Level: 14 units	16
Control Protocol	MANET2 / sACN / DMX 512	
Connector Form	16amp, CEE17	

### LIGHTING FIXTURES AVAILABLE IN STUDIO THEATRE

\* May book additional lighting inventory from the venue-wide inventory, subject to availability.

Description	Total
ETC Source Four 750W Profile 10°	08
ETC Source Four 750w Profile 19°	12
ETC Source Four 750w Profile 26°	12
ETC Source Four 750w Profile 36°	12
ETC Source Four 750w Zoom Profile 15° - 30°	10
Selecon 1.2kw Fresnel with Barndoor	30
Par 64 Pro 1kw Parcan with CP62 lens (Medium Flood)	30
ROBE' Esprite' Fresnel with 650W High Colour Fidelity (HCF) White LED Engine	06
ROBE' Esprite' Spot with 650W High Colour Fidelity (HCF) White LED Engine	06
Le Maitre Haze Machine	01
Lighting Boom	06

## VENUE WIDE INVENTORY - LIGHTING

All items from the venue wide inventory are subject to availability.

Charges may apply to certain items.

Prior arrangement and confirmation are required.

Item	QTY
Robert Juliet 1.2KW 310HF Fresnel	20
ETC Source Four 750w Profile 10°	05
ETC Source Four 750w Profile 19°	04
ETC Source Four 750w Profile 26°	16
ETC Source Four 750w Profile 36°	10
ETC Source Four 750w 50°	16
ETC Source Four Zoom 750w Profiles 15° - 30°	20
ETC Source Four 750w PARnel with Barndoor	12
ETC Source Four LED Series 2 Lustr Engine with 25° - 50° Zoom Lens	16
ETC Source Four LED Series 2 Lustr Engine with 15° - 50° Fresnel Adaptor and Barndoor	16
ETC Source Four LED Series 3 Lustr Engine with 15° - 50° Fresnel Adaptor and Barndoor	16
ETC LED ColorSource CYC	24
Par 64 1kw Parcan with CP62 lens (Medium Flood)	30
Par 64 1kw Parcan with CP61 lens (Narrow Flood)	30
Gobo Holder A size	20
Gobo Holder B size	20
ETC Iris	20

A wide variety of Apollo Gobos and Lee & Rosco Colour filters are available for selection, subject to availability. Please make prior arrangements. Charges may apply.

Item	QTY
Le Maitre MVS Haze Machine	02
Le Maitre G300 Smoke Machine	02
63Amp Power Distribution Box – RUB270H2 *LEW endorsement will be required	03
32Amp Power Distribution Box - RUBTR1 *LEW endorsement will be required	02

## STAGING

### STAGING SPECIFICATIONS

Item	Description	QTY
Hoist System	Rolling Beam (SWL: 1 Tonne) & Trolley Unit (SWL: 250KG)	18
Rigging	Single Pulleys for Grid or Head Steel Mounting	20
Ropes	20m Rigging Rope 30m Rigging Rope	08 04
Chain Hoist	Chainmaster BGV-D8 500kg with 12 Channel Control	06
Dance Mat	Dance mat: Lemark 15m (L) x 2m (W) 2.0mm Black semi-cushioned floor mat	6 Rolls
Black Gauze	15m(W) x 9m(H)	01
White Gauze	15m(W) x 9m(H)	01
Perimeter Drapes	8m(W) x 5.8(H) 2.2m(W) x 5.8(H)	02 08
Hard Masking Type A	1.22m(W) x 2.45m(H)	04
Hard Masking Type B	1.3m(W) x 2.86m(H)	02
Hard Masking Type C	2m(W) x 2.86m(H)	02
Curtain Track	Double Rail Curtain Tracks	

### VENUE WIDE INVENTORY – STAGING

Item	Description	QTY
Chain Hoist	Chainmaster BGV-D8 (DGUV V54) 500kg	07
Stage Weights	12.5kg	50
	25kg	20
Chain Block	1 Ton x 9m chain drop	07
Nivoflex riser	2m(L) x 1m(W) x 200mm(H) *With Railings	22 units
Butec riser	1.82m(L) x 1m(W) x 200mm(H) *With Railings * Leg height (115mm, 300mm, 600mm, 900mm, 1200mm)	50 units
Rostrum	Grey rostrum	01

### TRUSS INVENTORY

Item	QTY
3m Truss	10
2.5m Truss	10
2m Truss	10
1.5m	10
1m	10
0.5m	10
Corner block	10

## VIDEO & PROJECTION SPECIFICATIONS

As part of the default configuration, a pre-rigged & aligned to centre-stage projector exists.  
Costs related to rigging and dismantling the screen will be borne by the hirer.

Item	Description	QTY
Projector	Panasonic PT-RZ120 (front throw) 12000 LUMENS	01
Lenses	Projection Zoom Lens, ET-DLE 350 (standard screen)	01
	Projection Zoom Lens, ET-DLE 150 (wide angle)	01
Projection Screen	AV Stumpfl 14ft(W) x 7ft(H) approx. 4.2m(W) x 2.1m(H)	01

## VIDEO & PROJECTION INVENTORY

Video Switcher	ATEN 8x8 True 4K HDMI Matrix Switch (VM0808HB) - 08 x HDMI Input - 08 x HDMI Output	01
Transmitter	Kramer PT-580TxR - 1 HDMI Input - 1 DGK at twisted pair RJ-45 Output	02
Receiver	Kramer PT-580RxR - 1 DGK at twisted pair RJ-45 Input - 1 HDMI Output	02
Splitter	HDMI Powered distribution (Splitter) - 1 input - 4 output - Key digital KD-DA 1 x 4	01