

**sota**

SCHOOL OF THE  
ARTS SINGAPORE



# TECHNICAL SPECIFICATIONS

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# CONCERT HALL

## TECHNICAL INFORMATION

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### SEATING CONFIGURATION

Maximum Seating Capacity: 560 + 68(restricted view seats)

Stalls: 378

Circle: 182

Restricted View: 68

Choir Wagon: 80 (For performers only)

The venue also has specific areas for patrons that are non-transferable from wheelchairs.

### STAGE SPECIFICATIONS

Floor composition: 22mm T&G timber over 2 layers of 18mm plywood and 50mm solid battens

Stage Dimensions: 15.6m(W) – 13.8(W) x 10.8m(D)

Tiered Riser Dimensions:

(Tier 1, lowest): 9.2m(W) x 0.2m(H) x 1.2m(D)

(Tier 2): 9m(W) x 0.35m(H) x 1.9m(D)

(Tier 3): 9.3m(W) x 0.5m(H) x 2.1m(D)

(Tier 4, highest): 10.4m(W) x 0.65m(H) x 2.5m(D)

Choir wagon dimension: 4m(D) x 12.1(W)

Stage Maximum Laden Weight Load: 7kn/m<sup>2</sup>

### 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: 2 x 32amp, 2 x 63amp & 2 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 @ Bridge: (LEW endorsement and single line drawing required)

General Usage: 2 x 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 room.

### **ORCHESTRA PROVISIONS**

The following items are available.

Music Chairs – 120pcs.

Music Stands – 120pcs.

High Stools – 15pcs

Conductor's Podium & Stand – 1 Set (A smaller podium is available)

Music Stand lights – 50 pcs (1pc uses 3 x AAA batteries, to be provided by hirer.)

Requirements and stage layout should be confirmed prior to booking times.

Expenses related to setup and reinstatement of the provisions will be borne by hirer.

### **DRESSING ROOM SPECIFICATIONS**

Each dressing room is equipped with:

Audio & video stage relay systems

Paging system (from Stage Manager's desk @ Stage Right)

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: 7 (5 with 7 chairs & 2 with 15 chairs)

### **LOADING BAY**

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

Loading access to the Concert Hall is from an elevated dock through the Drama Theatre foyer (if not in use) or a passageway\* from the loading bay.

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 either the production coordinator and/or venue 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 QL 5 with Yamaha Rio 3224-D2 <ul style="list-style-type: none"> <li>- 40 mono inputs available</li> <li>- 15 mix out, 3 Matrices available</li> </ul> * Please note that for heavily amplified performances the mixer will be shifted out of the control room to a production desk in the audience area. (15 seats @ Q7 – 14 & P9 – 15) | 01  |
| FOH Loudspeakers | Main PA(L/R): NEXO GEO S12   | 05  |
|                  | Main PA(C): NEXO GEO S12   | 03  |
|                  | Subwoofers: NEXO RS15 (If required)<br>(Positioned at Bridge 1)  | 02  |
|                  | Front Fills: NEXO PS8  | 05  |
|                  | Restricted Seats Fills: NEXO PS 8  | 02  |
| CD Playback      | Denon DJ DN-D4500  | 01  |
| CD Recorder      | Tascam SS-CDR 200 (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                        |
|-------------------------|---|----------------------------|
| Countryman E6           | Wireless Earset Mic                         | 08                         |
| Countryman B3           | Lavalier Mic                                | 08                         |
| DPA 6061                | Clip-on Mic                                 | 12                         |
| DPA D: VOTE 4099        | Violin Mic                                  | 06                         |
| DPA 4288                | Headworn Mic                                | 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: 04<br>DT: 02<br>ST: 04 |
| Sennheiser MD-421       | Dynamic General Microphone                  | 03                         |
| Sennheiser E608         | Dynamic Microphone (for Saxophone)          | 03                         |
| AKG C414                | Condenser Microphone                        | 08                         |
| AKG C451-B              | Condenser Microphone                        | 02                         |
| AKG C411 PP             | Contact Mic                                 | 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                         |
| Jamstands               | Round Base Mic Stand                        | 04                         |
| Ultimate Support        | Triangular Mic 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                         |
| DSAN LSP1               | Mono Laptop PC Port                         | 03                         |
| DSAN LSP2               | Stereo Laptop PC Port                       | 03                         |

## LIGHTING

### LIGHTING SPECIFICATIONS

Standard focused face lighting rig is pre-hung above the audience stall seating (Front-of-House).

This basic lighting rig is meant for general facial and stage coverage only.

All expenses related to reinstating the standard rig from any amendments 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 (Delay) | 03  |
| Dimmable Output     | 3kw ThruPower Modules (Dimmer)          | 170 |
| Non-Dimmable Output | 3kw ThruPower Modules (Relay)           | 18  |
| Control Protocol    | sACN / DMX 512                          |     |
| Connector Form      | 16amp, CEE17                            |     |

### LIGHTING FIXTURES AVAILABLE IN DRAMA THEATRE VENUE

| Description  | Total | Pre-hung in Venue (FOH) | Balance for usage |
|--|-------|-------------------------|-------------------|
| ETC Source Four 750W Profile 10° (with Iris)               | 03    | 03                      | -                 |
| ETC Source Four 750w Profile 26°                           | 05    | 05                      | -                 |
| ETC Source Four 750w Zoom Profile 15° - 30°                | 12    | 12                      | -                 |
| ETC Source Four 750w PARnel                                | 16    | 16                      | -                 |
| ETC Source Four 750w PAR EA with CP 62 Lens (Medium Flood) | 24    | 24                      | -                 |
| Robe Lighting Spiider Moving Light LED Wash                | 06    | 06                      | -                 |
| Robert Juliat Buxie 575w MSD Followspot (1124D Compact)    | 02    | 02                      | -                 |

## 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   | 12  |
| 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 Lustr Series 2 Engine with 25° - 50° Zoom Lens                          | 12  |
| ETC Profile Four Lustr Series 2 Engine with 15° - 50° LED Fresnel Adaptor with Barndoor | 20  |
| 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<br>*LEW endorsement will be required | 03  |
| 32Amp Power Distribution Box - RUBTR1<br>*LEW endorsement will be required   | 02  |



## STAGING

### STAGING SPECIFICATIONS

| Item            | Description  | QTY |
|-----------------|--|-----|
| Hoist System*   | 15m(W) Vortex Automated Fly Bar<br>* A few bars are used for standard lighting rig and house PA system<br>* Load Capacity: 500kg/bar | 12  |
| Acoustic Drapes | Drum and shaft mechanism<br>Set to fully in, half out or fully out.<br>Adjustable per each wall of the Concert Hall                  | 28  |
| Tiered Risers   | Automated choir riser<br>From choir wagon  | 04  |
| Black Gauze     | 15m (W) x 9m (H)   | 01  |
| Black Drape     | 15m (W) x 9m (H) *To Mask-off Choir Wagon  | 01  |
| White Gauze     | 15m (W) x 9m (H)   | 01  |
| CYC Screen      | 15m (W) x 9m (H)   | 01  |
| Lectern         | Wooden Rostrum   | 01  |
| Choir Wagon     | Position adjustable by automation  |     |

### VENUE WIDE INVENTORY – STAGING

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      |
|----------------|---|----------|
| Chain Hoist    | Chainmaster D8 (DGUV V54) 500kg         | 07       |
| Stage Weights  | 12.5kg                                  | 50       |
| Nivoflex riser | 2m(L) x 1m(W) x 200mm(H) *with Railings | 10 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-DS12KE (front throw), 12000 LUMENS  | 01  |
| Lens              | DLP Projection Zoom Lens ET-D75LE30A   | 01  |
| Projection Screen | AV Stumpfl<br>20 ft (W) x 11ft (H) <i>approx. 6m(W) x 3.3m(H)</i><br>To be rigged on Bar 8 | 01  |

## VIDEO & PROJECTION INVENTORY

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