

sota

SCHOOL OF THE
ARTS SINGAPORE



TECHNICAL SPECIFICATIONS

CONCERT HALL

TECHNICAL INFORMATION

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/m²

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: 120 pcs

Music Stands: 120 pcs

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 at least 14 days prior to Bump-in date.

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/m²

DEPARTMENTAL INFORMATION

At SOTA, we are able 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.

CONCERT GRAND PIANO

There are two Steinway Model D concert grand pianos available for rental.

The use of a piano comes with one standard tuning per day regardless of rehearsal day or performance day. Prior confirmation is required.

The piano(s) are tuned to A442 and cannot be altered. Prepared piano or temporary alteration is not allowed.

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 - 26 mix out, 6 Matrix available * 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): L-Acoustics A10i	10
	Subwoofers (C): L-Acoustics KS21i	03
	Front Fills: L-Acoustics X6i	05
	Restricted Seats Fills: L-Acoustics A10i	02
	Delay Fills: L-Acoustics A10i	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 ULXD4D Wireless Receivers*	8
	SHURE UR4D+ Wireless Receivers*	2
Handheld Transmitters	SHURE ULXD2 Handheld Transmitter w/ SM58 Capsule	8
	SHURE UR2 Handheld Transmitter w/ SM58 Capsule	2
Bodypack Transmitters	SHURE ULXD1 Bodypack Transmitter	8
	SHURE UR1 Bodypack Transmitter	2
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	Head-worn 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

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

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	MANET2 / sACN / DMX 512	
Connector Form	16amp, CEE17	

LIGHTING FIXTURES AVAILABLE IN CONCERT HALL

Description	Total	Pre-hung in Venue (FOH)	Balance for usage
ETC Source Four 750W Profile 10° (with Iris) - Spot	03	03	-
ETC Source Four 750w Profile 26° - Face	05	05	-
ETC Source Four 750w Zoom Profile 15° - 30° - Face	12	12	-
Selecon Rama 1200W Fresnel	17	17	-
ETC Source Four 750w PARnel - Top Wash	18	18	-
ETC Source Four 750w PAR EA with CP 62 Lens (Medium Flood)	08	08	-
Robe Lighting Spiider Moving Light LED Wash	08	08	-
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	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° LED 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*	15m(W) Vortex Automated Fly Bar * A few bars are used for standard lighting rig and house PA system * Load Capacity: 500kg/bar	12
Acoustic Drapes	Drum and shaft mechanism Set to fully in, half out or fully out. Adjustable per each wall of the Concert Hall	28
Tiered Risers	Automated choir riser 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	
Piano Bench	Duet Adjustable piano stool (Double Seat)	02
	Adjustable single-seated piano stool	05

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
	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-DS12KE (front throw), 12000 LUMENS	01
Lens	DLP Projection Zoom Lens ET-D75LE30A	01
Projection Screen	AV Stumpfl 20 ft (W) x 11ft (H) <i>approx. 6m(W) x 3.3m(H)</i> To be rigged on Bar 8 or Bar 10	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-580RxR - 1 DGK at twisted pair RJ-45 Input - 1 HDMI 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