

AUDIO

House Sound System:

- Main flown Left/Right system is comprised of 12x d&b V-series Speakers (8xV8 & 4xV12) per side
- 4x d&b V4 subs flown as a centre cluster and 6x d&b Y V subs on the ground. 2x added subs available by request if not using as stage side fills
- The whole system is run in Array Processing and uses all d&b D80 amplifiers. d&b R1 and Array Cal files available upon request to integrate with additional speakers as needed.
- The main Left/Right system is hung by 3x inverted Tour Rig direct control 1-ton motors per side. The centre sub cluster is hung using 2x winch motors.
- Patching facilities exist to allow control of this system through touring mixer. PA system can be fed Analog (Left, Right, sub, Front Fill) or AES Digital (Left + Right) (Subs + Front Fill) signals.

Front Fill Lip System:

- 8x d&b E8 speakers powered by a d&b 30D amplifier

Proscenium Fill Speakers:

- 1 x d&b Vi10P speaker on each side of proscenium wall powered by a d&b 30D amplifier - Feed by Front Fill Signal

Under Balcony System:

- Row 1 consists of: 11x d&b Ti10L speakers powered by a d&b D80 amplifier
- Row 2 consists of: 10x d&b E8 speakers powered by a d&b D80 amplifier

Note: under balcony speakers are fed a Mono sum of the Left and Right signal

Over Balcony System:

- 2x d&b Yi7P speakers flown and powered by a 30D amplifier - Fed from the Left and Right feeds

Hearing Assist:

- Listen Tech (LCS-121-01) Wi-Fi/RF Advanced System. This system combines Wi-Fi and RF technologies to give compliant audio coverage PLUS expanded coverage to everyone with a smartphone or tablet.
- 40x Listen Tech Receivers (72 MHz) with universal ear speaker plus neck loop.

Touring Mix Location - Centre Orchestra:

- Orchestra level, Right Centre, the full audio mix / lighting position utilizes, Row 29 seats 41-53 (inclusive) and Row 30 seats 41-54 (inclusive) removed, plus Row 31 seats 41-53 (inclusive) which can either be just not sold, or removed.
- Audio connection via Cat6 (except Dante), AES or analog XLR to House system available at this location
- 2x 30amp L14-30 plugs available for AC power. Can also be broken out to 4x 15amp Edison duplex plugs
- Clearcom is also available at FOH
- Snake traverses from down stage left in front of the stage to mix location via a 110' long x 8" diameter pipe. Requires 125' of cable to reach from the standard stage left monitor desk location to FOH mix.

Note: THESE SEATS MUST BE HELD FROM SALE IN ADVANCE SO THEY CAN BE REMOVED FOR YOUR EVENT (IF REQUIRED)



Touring PA Positions:

- 1x 1-ton point SL & SR 10'-10" US from the center DS edge of the deck. These are normally used as Road Audio points.
- The house array with their 3 points lives just offstage of these points and can be raised out of the way

Portable & Monitor Speakers:

- 10x d&b M4 wedge monitors & 1 d&b V-Sub
- 2x d&b Y7P speakers & 2x d&b V-Subs (with post attachments) for portable side-fills
- 4x d&b Yi7P speakers hung on Stage Left and Right (just upstage of both sets of pillars) are permanent side-fills
- The system is all powered with d&b D20 amplifiers and is setup to do 8x wedge mixes, a sub/top drum fill, 2x sub/top side-fills. The permanent side-fills are setup as 2 stereo mixes. The default configuration is 1x single stereo mix left and right but we can split upstage and downstage as needed

FOH House Mixing Console:

- Avid S6L 24C control surface with 112 Engine in the sound booth. Please note that this console does not leave the sound booth.
- There is an additional Avid S6L 24C control surface that is available upon request and can be used at the FOH mix position.
- The 112 Engine in the sound booth is installed with a Waves Soundgrid server one. This can be used by any house console when setup in the mix position and using the booth 112 Engine (Available Plugins: API 560, Waves C6, DBX 160, F6, H-EQ, H-Reverb, Waves Horizon Bundle, PSE, SSL 4000 Collection)

Monitor House Mixing Console:

- Avid S6L 32D control surface with 112 Engine

Networking:

- They System is connected via a fibre optic redundant network using Luminex Gigacore 10 switches running an AVB network for the Avid consoles and a control network for system control and Dante audio distortion

Patching

- The hub of the system is all stage left where there is an Avid Stage 64 that is connected to the booth via 2x Luminex Gigacore 10 redundant switches using Fibre Optic cable.
- There are patchable XLR tie-lines originating from and going to: Stage right, Upstage Right, Upstage Left, the Video Room, RF rack, Amplifier rack and the Sound Booth.
- There are CAT6 tie-lines originating from and going to: FOH Mix position, Stage Right and the Sound Booth
- There are NL4 tie lines going to: Stage Right, Upstage Right and Upstage Left

CD Player:

- 1x Tascam CD-01U

Signal Processing:

- The system is controlled using 2 x Lake LM44 processors which feed 3 x d&b DS10 processors that split the signal from Dante to AES. The Lake processors are available to touring groups via a Windows surface Pro 4 tablet.

Paging & Program:

- Complete program interrupt system to lobbies, dressing rooms, rehearsal rooms, wardrobe room, hallways etc. from stage manager station down stage right.

Intercom:

- One (1) Channel Clear-com to all operating stations with the master station at stage manager's location (down stage right).
- Portable stations are available.

Microphones / DI's:

- | | |
|-------------------------|------------------------------|
| • DPA 4052 | 4 (Hanging Omni Microphones) |
| • AKG C414E | 4 (Condenser Microphones) |
| • AKG 414XLS | 1 |
| • Shure SM58 | 6 |
| • Shure SM57 | 6 |
| • Shure Beta 57 | 2 |
| • Shure BETA 58 | 4 |
| • Neumann KM 100 | 6 (with 43 capsules) |
| • Neumann KMS 105 | 3 |
| • Neumann KM 143 | 6 |
| • Neumann KM 183 | 4 |
| • Neumann KM 184 | 10 |
| • Neumann KM 185 | 2 |
| • Audio Technica Pro 37 | 4 |
| • Earthworks PM40 | 1 (Piano Mic) - OLD |
| • Earthworks -FMR500 | 2 (Lectern Mics) |
| • Sennheiser E901 | 1 |
| • Sennheiser E902 | 1 |
| • Sennheiser E904 | 4 |
| • Sennheiser E914 | 2 |
| • Sennheiser E609 | 1 + 1 on order |
| • Sennheiser MD421 | 4 |
| • DI boxes: | |
| ○ Radial J48 | 6 (active) |
| ○ Radial JDI | 2 (passive) |
| ○ Cable Factory DI-Pro | 3 (passive) |

Stage Wireless Mics:

- 2x Shure Axient AD4Q Quad Receivers (8 channels total) (470-616MHZ)
- 2x RF Venue Diversity Fin Antennas (470 – 698MHZ)
- 8x Shure AD2 Handheld Transmitters (470 – 616MHZ)
- 8x Shure KSM8 Capsules
- 6x Shure Beta 87 Capsules
- 2x Shure SM 58 Capsules
- 8x Shure AD1 Bodypack Transmitters (470-616MHZ)
- 2x Countryman H6 Headset mics with TA4F connectors, purple band (Tan)
- 2x Countryman H6 Headset mics with TA4F connectors, no band (Tan)
- 6x Countryman B3 Lav mics with TA4F connectors (Tan)
- 1x Countryman B3 Lav mic with TA4F connector (Tan)
- 8x Oscar Sound Technologies HM 701 Headset mics with TA4F connectors (Tan) – *These don't sound amazing*
- 2x Oscar Sound Technologies TL40 Lav mics with TA4F connectors (Tan) – *These don't sound amazing*
- 18x Shure SB900A Rechargeable batteries
- 2x Shure WA302 Instrument cables

FOH Wireless Mics & Speakers:

- 4x Shure ULXD4 Single Channel receiver 470 - 534 MHz
 - Main staircase speakers only (receives at coat check)
 - West Cost Hall 2x (system not operational)
 - President lounge (system not operational)
- 4x Shure Handheld ULXD2 / SM58 470-534MHz transmitters
 - Program speakers throughout the lobby with an announcement mic, CD player and Program sound sources available all driven by 70volt QSC amplifiers

Microphone Lines:

To Sound Booth 4th Floor:

- 8x Amp Rack to Audio Booth
- 4x Amp Rack to Audio Booth (AES cable)
- 4x Stage Left to Audio Booth (AES cable) – see note
- 4x Stage Right to Audio Booth (AES cable) – see note
- 8x FOH Mix to Audio Booth (AES cable) – see note
- 2x Projection Audio Booth to Audio Booth)
- 12x Balcony Rail to Audio Booth (4 used for house program mics)

Note: Both male and female with 8 signals total

To Stage Left:

- 12x Stage Right to Stage Left
- 12x Up Stage Right to Stage Left
- 12x Up Stage Left to Stage Left
- 2x Amp Rack to Stage Left (AES cable)
- 12x Video room to Stage Left (6 Male XLR, 6 Female XLR)
- 8x RF Rack to Stage Left

Note: all microphone lines and trunks terminate on stage to 3 pin XLR connectors Microphones

Cables & Stands:

- 4x Desk stands
- 7x Goosenecks
- 20x Tall mic stands with booms (K+M, ATLAS)
- 12x Short boom stands
- 4x 12 channel sub snakes (2x @ 50', 2x @ 75')

Note: assortment of stands, cables, splitter boxes, pre mixers, adapters, etc. availability subject to prior reservation.

Pro Tools / Audio Recording Rig:

- Apple Mac-Mini with AVB connection to Avid Pro Tools from S6L console up to 64 tracks of independent recording.
- Additional recording via Mac Book Pro laptops available upon request.
- 2 Track recording vis USB onboard S6L console
- 1x -Tascam SS-CDR-200 CD/USB/SD Card recorder and audio playback

Note: recording media not provided

Audio Booth:

- The Audio Booth is located at the back of the balcony just behind the last row of seats. Booth is accessed from level 4 in the lobby, house right.
- If people stand in their seats, the view through the booth window can be obstructed
- The glass window fully opens for mixing purposes.

