Schermerhorn Symphony Center
Comprehensive Description of the Laura Turner Hall
Technical Systems & Venue Overview
2021 - 2022

Laura Turner Hall Overview

The Schermerhorn Symphony Center is a 1,860 seat venue designed in the traditional 19th century neo-classic style of the great symphony halls of Vienna. It can also be described as a 'Shoe-box' style hall with the stage at one end. There is no fly loft or rigging points, which precludes the use of trusses, soft goods or scrims. The concert hall is designed to provide clarity, warmth, and natural reverb, with excellent blend and flexibility, natural instrument sound and absence of noise with minimal use of electronic amplification.

Sound System Overview

Line Array
The line array is a d&b V-series with (12) boxes per side. This array consists of (10) Vi8 over (2) Vi12 per side. There are (4) d&b B4 subs per side permanently installed underneath the stage with the option of adding (1) d&b J-Infra sub per side to the deck surface. The array & B4 subs are powered by d&b 30D amplifiers, and the J-Infra subs are powered by a d&b D80 amplifier. All processing is achieved within the amplifiers and are controlled via a tablet with d&b R1 software.

The d&b array is flown in a permanent location from hoists located on the service deck and may not be removed or modified in any way.

Fills
The **Front Fills** consist of (3) d&b E8 per side while the Loge Boxes nearest the stage are covered with (3) d&b 8S per side.

The **Choral Terrace Fill** is a center hang that consists of (4) d&b Yi8.

The **Side Stage Balcony Fills** consist of (5) d&b Ti10 per side.

The **High Balcony Fills** consist of are (1) d&b Q10 per side.

All fills are powered by d&b 30D amplifiers.

FOH Console
The DigiDesign Venue D is a 48 x 16 frame desk with a side-car, giving a fader surface of 24 input faders & 8 master faders. There are 6 available assignable audio I/O points at the FOH position. Since the console is digitally connected to the Stage Rack, there is no analog snake to FOH. Shows, which travel with their own console, must run their snake to the stage. The Stage Rack may be located on either Stage Left or Stage Right.

Sound System Overview (Cont.)

Outputs
> Room distribution presently uses 7 of the 16 outputs, and these are not available for reassignment for other purposes. Additionally, the sub system is setup with a discrete aux send.

Visitors are welcome to patch their preferred console outputs directly into the system with Left, Right, Sub, F Fill sends at the stage or at the FOH position.

Mix Position
> Schermerhorn Symphony Center's FOH console position is in a fixed location underneath a balcony approximately 107' from downstage.

Sound Limit
> The sound limit for Laura Tuner Hall is a sustained 95dB A-weighted at the FOH mix position.
> Measured via the house analyzer microphone through smart Version 7.

Engineering Staff
> At least one member of the audio staff must be present at all times when this system is operating. Staff needs are determined in consultation with the Production Manager.

Monitor System
> The Monitor Console is an Avid Venue SC48 in a 48 x 32 frame.
> **Monitor Wedge Inventory**
>> 10 JBL PRX612m (12" x 1.5" drivers powered by a 1000 watt Crown amplifier)
>> 14 Galaxy Audio powered Hotspots
>> 4 JBL VRX918SP Drum Sub
>
> The audio split is a 48 channel 3-way Radial V12 with Jensen transformers.

Microphone Inventory
> Microphone inventory is available upon request.

Lighting System Overview

Fixtures

The Concert Lighting System in Laura Turner Hall consists of (87) Vari*Lite automated fixtures (27 VL1000TS, 2 VL1000TI, and 58 VL1000T fixtures). Above the stage, there are (4) Robe Robin DL7S Profile, (10) GLP Impression X4 automated fixtures & (4) LED Fresnel downlights.

The lighting system is a static, non-changeable and permanently hung system.

House Lighting Console

The Lighting Console is a GrandMA2 Full-Size. The console is housed inside the lighting control booth located on the Founder's Level (middle tier balcony).

Guest Lighting Console

Any use of an outside console (i.e. one that is not Nashville Symphony property) **MUST** be brought to the attention of the Production Manager and Lighting Director prior to the event date as soon as possible. Guest lighting consoles can be patched into the house lighting rig via 8 hard lines of DMX or Ethernet (sACN).

Dimming System

Laura Turner Hall's lighting system is powered by Strand's C21 dimming system, including TrueSine Sinewave Dimmer Modules.

Follow Spots

Laura Turner Hall is outfitted with (3) Lycian 1293 X3K follow spots positioned in the spot booth located at the north end of the hall above the high balcony. This booth is partitioned from Laura Turner Hall by a glass window.

House Lights

The house lighting system is controlled with an AMX touch panel input device located off stage left, off stage right and in the lighting control booth.

Additional Technical Information

Rigging
Laura Turner Hall is not designed to do rigging of trusses, backdrops or any other sort. Please contact the Production Manager with any questions.

Power
Stage Left: (1) 100A 3-phase service & (8) 20A 110v Edison Circuits

Stage Right: (1) 100A 3-phase service & (8) 20A 110v Edison Circuits

Dock Power*: (2) 400A 3-phase services & (1) 100A 3-phase service
100ft. Cable Run To Stage Right

Shore Power: (2) 50A

Video Projector and Screen
SSC owns a Christie Roadster HD20k-J video projector and lens capable of projecting from the Projection Room at the back of the Hall to the Main Screen, mounted upon request, directly in front of the Organ Case. The screen sizes available is an 18'x24' (4:3) or 15'x26.5' (16:9) matte white surface on a truss frame. The use of the projector and screen constitute additional planning and staff which must be discussed with the Production Manager well in advance of show.

Smoke or Haze Machines
Haze machines MUST BE water-based, and are not allowed to be used unless advanced with the Production Manager at least 2 weeks prior to event day.

DSA Announce System
In the case of events which need only an announce microphone or preshow announcement such as a classical performance in the Hall, there are two EAW DSA speaker arrays mounted on the Organ Case for this purpose. They are operated from a small mixer on Stage Right. This system also makes use of the Under Balcony speakers in the Hall, and is regularly used for all NSO classical events. There are (2) Shure FM wireless handheld microphones associated with this system for announcements from the stage.

Hearing Assist System
The Laura Turner Concert Hall is equipped with a Sennheiser infra-red hearing assist system with signal sources fed from the FOH Console or overhead microphones as required. The Front of House staff distributes headsets or neck-worm telephone loop pendants to patrons upon request. This equipment is checked regularly to assure operation as required by Federal Law.

Additional Technical Information (Cont.)

Clear-Com

A four channel Clear-Com system is installed and available at several locations around LTH and control rooms. Check with the Production Manager to confirm locations prior to arrival.

Control Room Monitors

The control rooms are equipped with speakers for audio monitoring during performance. This includes the lighting control room and the follow spot booth above LTH.

Backstage Area Overview

Loading Dock

Address: 171 3rd Avenue South Nashville, TN 37201

For Dock Access: 615.687.6610

- 3 standard truck height docks with bay doors & dock lights (Dock A, B, C)
- Dock A requires a dock plate or ramp
- Dock B & C are equipped with dock levelers

Production Office

Dressing Room A is utilized as a Production Office and is equipped with the following:

- (2) 6' tables
- (2) Desk Chairs
- Video monitor with a house camera & audio feed of the stage
- Hardwired Internet: 100 Down/Up Mbps (No Firewall)
- Full Bath & vanity mirror w/ make-up station
- Dimensions: 12' x 20'

Dressing Rooms

In addition to Dressing Room A (Production Office), the backstage area is outfitted with (6) available Dressing Rooms located off stage left. Each Dressing Room is equipped with:

- Bathroom & vanity mirror w/ make-up station
- Lounge Furniture
- Video monitor with a house camera & audio feed of the stage

Dressing Room B: 11' x 24' w/ Full Bath
Dressing Room C: 12' x 13' w/ Full Bath
Dressing Room D: 11' x 14' w/ Full Bath & Window
Dressing Room E: 10' x 17' w/ Full Bath & Window
Dressing Room F: 10' x 20' w/ ½ Bath & Window
Dressing Room G: NOT AVAILABLE
Dressing Room H: 10' x 23' w/ Full Bath & Window

Additional Technical Information (Cont.)

Backstage Page

The Backstage Page System consists of ceiling speakers located in dressing rooms, backstage corridors and the Musician's Lounge. Program is sent from overhead microphones and/or the FOH Console. The page microphone is located at the mix rack Stage Right.

Backstage Wi-Fi

    SSID: NSO-Guest
    Password: N/A

Lobby Areas Overview

The lobby areas include Main Lobby, Balcony Lobby, East Lobby, West Lobby and The Martha Rivers Ingram Garden outdoors.

Lobby Video Monitors

Audio and stage video is fed from Laura Turner Hall into the lobbies to accommodate late-comers and those who wish to remain in the lobby. The lobby video system consists of several video monitors placed near each Hall door. The video sources include the house camera, a power point computer and other sources which may be arranged in advance with the Production Manager.

Lobby Music

Background music may be programmed for these areas via an MP3 player, CD or a Comcast Music Channel upon request.

Lobby Chimes

The lobby chime may be rung prior to show start to encourage patrons to take their seats. The Front of House staff operates this control.

Technical Contact

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