



Schermerhorn Symphony Center
Comprehensive Description of the Laura Turner Hall
Technical Systems & Venue Overview
2024 - 2025

Laura Turner Hall Overview

The Schermerhorn Symphony Center's Laura Turner Hall 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 'Shoebbox' 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.

Audio System Overview

Line Array & Subwoofers

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 on stage. 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 is controlled via the d&b R1 software.

Fills

To accommodate LTH's 360° seating, many fill speaker deployments are utilized to provide a mix of vocals and other relatively quiet instruments to these audience locations:

- **Front Fills** are (3) d&b E8 per side.
- **Loge Boxes** nearest the stage are covered by (3) d&b 8S per side.
- **Choir Loft** behind the stage is covered by a center hang of (4) d&b Yi8.
- **Side Stage Balconies** are covered by (5) d&b Ti10 per side.
- **High Balcony** is covered by a stereo hang of (1) d&b Q10 per side.
- **All fills** are powered by d&b 30D amplifiers.

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.



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Audio System Overview (*Continued*)

FOH Console – Yamaha Rivage PM5

The PM5 consists of the CS-R5 surface, DSP-RX (120 input, 48 mix, and 32 matrix channels) and a pair Rio3224-D2 i/o racks offering 64x32 analog i/o connected via discrete, fully redundant Dante connections isolated from any other networks. FOH and Monitor Dante networks can be combined to offer up to 128 mic preamps, 64 line outputs, and 32 AES3 outputs.

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

Mix Position

Schermerhorn Symphony Center's FOH console position is in a fixed location underneath a balcony approximately 107' from stage.

Sound Limit

The sound limit for Laura Tuner Hall is a sustained 95dB A-weighted at the FOH mix position. Measured via a calibrated Earthworks M30 and SMAART V7 system.

Staffing

At least one member of the house audio staff must be present at all times when this system is operating. Staffing needs are determined in consultation with the Director of Production.

Monitor Console – Yamaha Rivage PM3

The PM3 consists of the CS-R3 surface, DSP-RX (120 input, 48 mix, and 32 matrix channels) and a pair Rio3224-D2 i/o racks offering 64x32 analog i/o connected via discrete, fully redundant Dante connections isolated from any other networks. FOH and Monitor Dante networks can be combined to offer up to 128 mic preamps, 64 line outputs, and 32 AES3 outputs.

Monitor Wedge Inventory

10 JBL PRX612M

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 NSA's Director of Production and Sr. 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 Director of Production 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 front projection from the Projection Room at the back of the Hall to the Main Screen, hung upon request, which must be advanced. The screen sizes available is an 18'x24' (4:3), 15'x26.5' (16:9), 14'x33' (2.35:1) 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 Director of Production 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 Director of Production at least (15) business days 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 off 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 (*Continued*)

Clear-Com

A two-channel Clear-Com system is installed and available at several locations around LTH and control rooms. Check with the Director of Production 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: 500 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 (*Continued*)

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 Director of Production.

Lobby Music

Background music may be programmed for these areas via a Playback Device or Xfinity 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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