



Rockport Music's SHALIN LIU PERFORMANCE CENTER

TECHNICAL AND PRODUCTION SPECIFICATIONS

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SHALIN LIU PERFORMANCE CENTER
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General Information

SHALIN LIU PERFORMANCE CENTER

The Shalin Liu Performance Center (SLPC) is a concert hall with state-of-the-art acoustics and breathtaking ocean views. The SLPC was built by Rockport Music for the Rockport Chamber Music Festival which has presented chamber music of the highest caliber since 1981. With the addition of the new performance center, the organization has expanded its artistic offerings to extend throughout the year and includes jazz, classical, pop and world music, Metropolitan Opera and National Theatre of England simulcasts, as well as many other programs.

In addition to the Concert Hall, the Reception Hall is a beautiful event space with dramatic ocean views that are also used for special events and smaller scale performances.

The Shalin Liu Performance Center is available for rentals which provides facilities and a professional staff for recordings, productions, as well as community and corporate events. The two spaces available for rental are the Concert Hall and Reception Hall.

The performance center is approximately one hour north of Boston, MA. It is located on Cape Ann and is accessible via US 127. It is also within walking distance of the Massachusetts Bay Commuter Rail Rockport line train station.

Year Opened: 2010

Web site: www.rockportmusic.org

Mailing Address: 16 Main Street

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Seating

The maximum seating capacity of the concert hall is 334 seats. Typical concert seating is for 328 patrons. 14 additional seats with obstructed views can be made available. When using the projection system more seats have obstructed views, reducing the recommended seating to 298.

Seating Capacities

		<i>Concert</i>	<i>Simulcast/Projection</i>
Orchestra			
	East Loge	19	19
	West Loge	19	19
	Center	156	156
	Total	194	194
Balcony			
	East Balcony	25	11*
	West Balcony	25	11*
	East Stage Balcony	4*	0
	West Stage Balcony	4*	0
	Rear Balcony	0	0
	Center	82	82
	Total	140	104
Total Capacity		334	
Recommended Sellable Capacity		326	298

*Indicates obstructed view

The concert hall seating is divided into 3 tiers. I, II, and III. The SLPC box office service has 3 seating maps available (*Concert, Simulcast, Gross Revenue*). Use of a non-standard seating map must be discussed with Production Services and the Box Office Manager. Charts of these maps are available upon request.

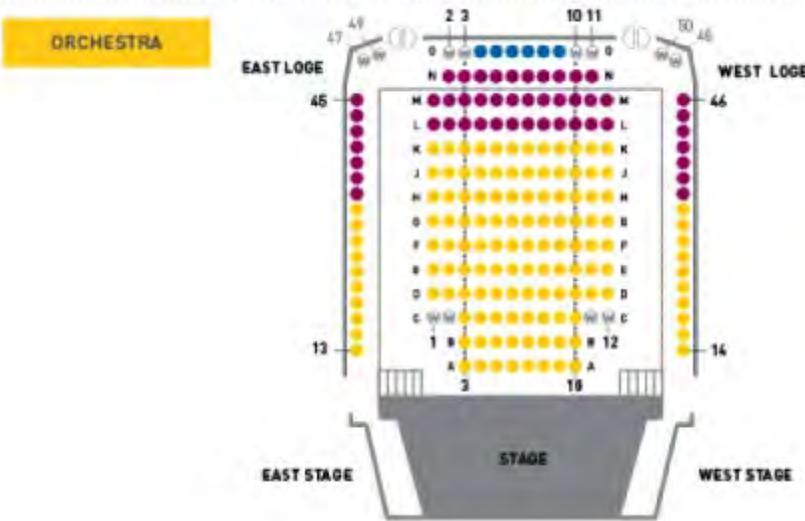
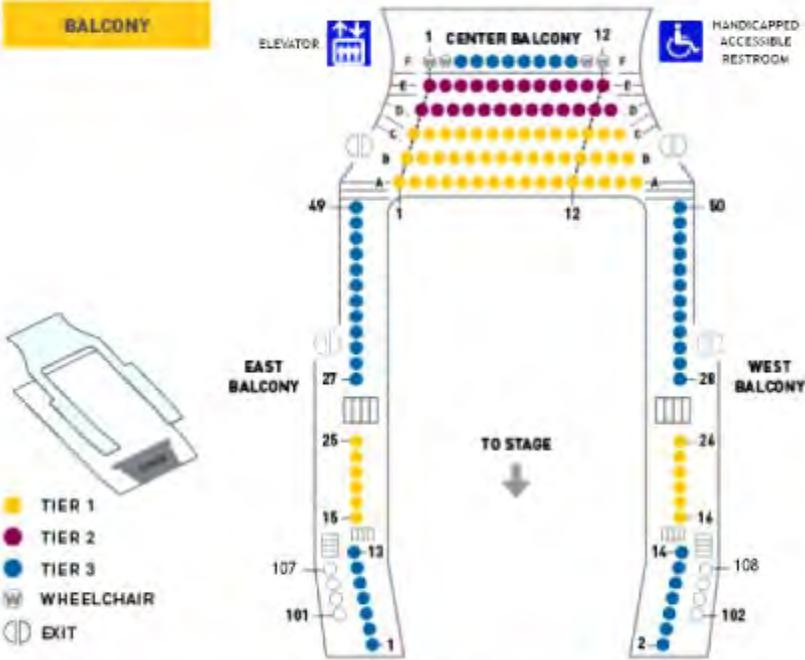
Recommended Tiers

	<i>Concert</i>	<i>Simulcast/Projection</i>
Tier I	213	216
Tier II	59	60
Tier III	54	22
Obstructed	8	
Totals	334	298



Seating Chart

SHALIN LIU PERFORMANCE CENTER SEATING CHART



Accessibility

The concert hall is accessible to patrons in wheelchairs and with limited mobility. There are four seats equipped with ADA transfer arms in the orchestra section. These same seats may be removed to accommodate patrons in wheelchairs. There is also removable seating in the balcony that is ADA accessible. There are accessible seats in all three tiers of seating.

Assisted Hearing System

A LISTEN™ FM radio transmitter system operates within the hall on a dedicated frequency. Receivers are available from staff in the lobby. Both earphones and hearing aid loops are available.

First Aid

For a medical emergency please dial 8-911 from any house phone. House phones are located in most rooms and near both first aid kits.

First aid kits are located in the backstage area and in the kitchen on the 3rd floor. Both kits are well stocked and contain supplies for most minor first aid needs. The kit in the kitchen is geared towards food service injuries. An AED (Automated External Defibrillator) is located backstage beside the first aid kit. An additional AED is located on the 3rd floor in the east hallway landing. If supplies are taken from either kit, please inform a Rockport Music Staff person.

If any emergency situation occurs, please immediately inform the Manager on Duty or another Rockport Music Staff person.

Load-in Area

Equipment is brought into the building via the main doors or the performers' entrance. Both entrances are located on Main Street. The backstage area can be accessed without the use of stairs. Entrance to the stage from the backstage area is on stage right. The backstage area is very limited in size.

- All mains-connected electrical equipment requires a current compliance test tag from a suitably licensed person and may only be connected by a qualified electrician.
- Overhead equipment (including lighting and scenery) must be rigged by a qualified rigger, using appropriate equipment. Rockport Music reserves the right to approve of all stagehands and riggers. If rigging staff is required, it must be made part of the contract and requested two weeks in advance.
- Lighting equipment rigged overhead must be secured with a safety chain or similar.
- Scenery and large props must be of a fire-retardant fabric or treated with a fire retardant. A certificate of such treatment must be produced on request. Polystyrene, plastic and other such materials that cannot be treated with fire retardant are not permitted.
- Approved drapes must be fire-retardant fabric or treated with an approved fire retardant and with an appropriate label attached to the drape.
- There are no lighting trusses or hang points available. Any questions related to this matter must be discussed with the Director of Production & Venue Operations

Vehicle Access

A loading zone is available directly in front of the main hall doors. Parking time is limited to 15 minutes. Street parking is available on Main Street in front of the hall at the parking meters. Should a longer time be needed in the loading bay for load-in / load-out a police detail will be required from the Town of Rockport. Police details are booked in four-hour blocks and must be scheduled in advance.

Storage Space

There is very limited storage space. Some items may, by prior arrangement, be left overnight, but there is no provision for storage beyond this. Rockport Music takes no responsibility for the loss or damage of any presenter's property, including personal belongings. Artists are encouraged to refrain from bringing personal belongings not required for the event.

Additional Equipment

There are no fly systems or hang points available in the concert hall. Additional lighting instruments need to be placed on stands or boom bases. The installed house sound system can only be supplemented by placing loudspeakers on the stage either ground stacked or on stands. There is minimal room for sets and no way to bring large set pieces on or off the stage. If additional equipment/sets are needed, please discuss your needs with Production Services.

Electrical Service

The SLPC is served by appropriate power for all of the house systems. The lighting dimmers are served by a 600-amp system. AV power is provided by a separate isolation transformer. A connection to the Building Main is available in the backstage area. The panel provides three phase 100-amp power with iso-ground. Iso-ground Edison plugs are located in numerous places throughout the building to provide line level voltage for AV connections. Non-AV gear may NOT be connected to IG power.



Sound Limits

In the House there is a Limit of 94 db average over 1 minute with momentary peaks not to exceed 96 db. On Stage there is a limit of 92 db average over 1 minute with momentary peaks not to exceed 94db.

In the Reception Hall there is a limit of 85 db average over 1 minute with momentary peaks not to exceed 90db.

STAGE SPECIFICATIONS

Stage Dimensions



Dimensions are approximate. Critical measurements should be confirmed on site. The setting line (zero line) of the stage is drawn between the downstage corners of the main side walls.

WIDTH	downstage	35' 4"
	setting line	29' 5"
	upstage	26' 6"
DEPTH	center line (glass wall)	18' 4"
	center line (curtain)	17' 6"
	center line (shutters)	16' 9"
	sides (glass wall)	18' 4"
	sides (curtain)	17' 6"
	sides (shutters)	17' 1"
CEILING HEIGHT	maximum (shape varies)	30 feet at center stage
STAGE HEIGHT	above auditorium floor	3 feet

UPSTAGE WALL



The upstage wall is 30 feet x 30 feet. There are three options for the upstage wall.

1. Glass wall – view of the ocean (NNW direction)
2. Scalloped motorized wooden shutters
3. Manually operated heavy brown velour drape

Stage Floor

STAGE RAKE 0 degrees (flat)

MATERIAL hardwood walnut flooring

Care of Timber Surfaces

No holes or permanent marks of any kind (including cello or double bass spikes) may be made on any timber surface in the Concert Hall. Marks must be removable "spike tape" available from the Stage Manager.

Control System

The control system for the motorized shutters and projection screen is located backstage. Additionally, both can be controlled in the AV room. There is a Creston system located in the AV room and at the Stage Managers table backstage. This system provides limited control of up to 2 wireless mics and the projection system.

Furniture

There is sufficient equipment to furnish a small chamber orchestra including orchestra chairs, bass stools, music stands, and conductor's platform.

Furniture inventory

- | | |
|---|----------------------------|
| (15) Standard height Manhasset music stands | (2) folding short stools |
| (12) Short Manhasset music stands | (1) small square table |
| (1) Fourscore Manhasset music stand | (1) Speaker's podium |
| (12) Wenger Artist chairs | (1) Conductors platform |
| (2) Wenger Cello chairs | (4) Adjustable piano chair |
| (1) Steinway artist bench | |
| (6) wooden stools | |

Piano



On the main stage there is a Hamburg Steinway D9 Concert Grand piano. The piano is stored in a climate-controlled closet on stage left. The piano is tuned to a standard concert pitch of A = 441 hz and equal temperament. Tuning of the piano is only by Rockport Music. Piano tunings must be scheduled at least two weeks in advance. If the piano is used it must be tuned prior to any rehearsals and performances.

The reception hall is equipped with a New York Steinway D9 Concert Grand piano. This instrument may be used for warm-ups and rehearsals prior to opening doors for the concert. There is also a Yamaha N1X upright piano in the artist green room that may be used for warm-ups.

SLPC LIGHTING

Control/Systems

The Shalin Liu Performance Center is equipped with both dimmers and relay modules installed in a Sensor+ rack with CEM+ control module and Paradigm architectural control processor in a Unison ERn enclosure. House lighting control can be via ETC PTS7 touchscreen panel located backstage right. (This panel can also control select concert fixtures.) There are also 3-button panels for house lights located at each entrance to the performance hall which control basic house light presets (full/mid/off). House lights include over stage lighting and house ambient light. We utilize an sACN over IP network to ETC gateways. House lighting uses universes 1-3. Universe 4 is available for guest usage. Output in for universe 4 is located on balcony SR and may be extended to stage.



Backstage Lighting Panel

CONCERT LIGHTING

Layout of the lighting rig is by 5 steel pipes per side of the balcony and 4 upstage pipes across the length of the stage. All pipes are at the same level above the balcony. Stage pins for dimmers and LED power are located on the same beams as the rigging as well as one connection each on the deck upstage left and right. We utilize a mixture of halogen and LED lighting:

System	Fixture Type	Quantity
Front Specials	Ayrton Diablo TC	6
Front Wash + US Specials	Martin Aura XB	8
Wall/Curtain Gobo	High End Systems Solaframe 750	2
Hi-Side Wash	ETC Colorsource Spot Deep Blue	8
Backlight Wash	Robe Spider	3
Curtain Wash	Chroma Q Colorforce II 72	4
Front Wash	ETC Source 4 Conventional Leko	6
Orchestra Wash	ETC Source 4 Conventional PAR	6
Refocusable Special	ETC Source 4 Conventional Leko	4

Additional items: 12 Chauvet Professional WellFit uplights. WellFit fixtures can be controlled wirelessly from the console.



CONSOLE

SLPC is equipped with a ChamSys MagicQ MQ500M Stadium console.



**For a full lighting package, see additional PDF
Shalin Liu Lighting Info 2025**

SOUND & AUDIO VISUAL FACILITIES

Acoustics

The Concert Hall sound is 'live' and bright with a warm and clear acoustic extending throughout the hall. The reverberation time is approximately 2.0 seconds from 100Hz to 8KHz with a full audience. The room is tunable through the use of the six acoustic panels on each side of the balcony, the three acoustic doors at the back of the balcony, and the material used for the upstage wall.

Operating position

The FOH audio position is located in the rear of the center balcony.



Loud Speaker System

House Mains

The house main array consists of Left, Right, Center, Sub. Each is independently controlled from the mixing console. Main Left and Right are d&b audiotechnik E12 loud speakers driven by a d&b audiotechnik D6 amplifier. Main center is a d&b audiotechnik Q7. The Main Sub is hung below the Main Center and is a d&b audiotechnik Q-Sub. Main Center and Main Sub are driven by a d&b audiotechnik D6 amplifier.

Front Fills

Three d&b E6 loud speakers are available as deployable front fills. Independently via mono aux

Loge/Proscenium Fills

Two JBL AC16 loudspeakers are installed in pockets at the front of the stage (down stage left and down stage right). They are controlled by a mono matrix from the mixing console.

Delays

Four d&b audiotechnik E8 speakers are mounted under the balcony in the orchestra section to provide delay fills for the orchestra section and surround sound. Each pair of speakers is driven by a d&b audiotechnik D6 amplifier. The rear two orchestra loudspeakers are slaved to the front pair and have a preset delay. The orchestra section delay fills are controlled by a stereo matrix from the mixing console.



Two d&b audiotechnik E8 speakers are mounted in the side of the rear balcony to provide delay fills and surround sound for the balcony. The loudspeakers are driven by a d&b audiotechnik D6 amplifier and controlled by a stereo matrix from the mixing console.

Public Zones

There are 2 public zones on a 70v speaker system. Zone 1 is the front lobby, sidewalk in front of the main doors, main Lower-Level restrooms, the Lower Level (LL) hallway, and the reception hall. Zone 2 is the Greenroom, and the Greenroom water closet. House paging can address each zone independently. House chimes sound in both zones. The zones can be fed from a mono matrix from the audio console, a monitor mic, or the audio feed from the 5.1 projection system.

Mixing Console

The hall is equipped with an Allen & Heath DLive7000 digital mixing console for FOH, controlling a DM-32 mix rack and four DX-16 stage boxes. Additionally, there is a DLive C3500 console available if a separate monitor position is needed. If a separate monitor position is necessary, this position can only be located stage right. iPad control available at all times.

Three point-to-point CAT6s lines are available from FOH to the stage.

Note: there are no local audio lines to/from the stage at FOH.

Audio Connections

DLive S7000 Surface	8 XLR mic/line in, 8 XLR line out, 2 digital st AES3 in, 3 digital st AES3 out WavesV3 card with Waves Extreme Server Dante 128x128 card with MacMini for multitrack recording
DM-32 MixRack	32x XLR mic/line in, 16x XLR line out Dante 64x64 card patched to an A&H Matrix for distribution
DX-16 Stage Box (x4)	16x XLR mic/line in, 8x XLR line out



Monitors

The SLPC is equipped with eight (8) active monitors. The monitors are QSC K10's (6) and QSC K12's (2) with 1000-watt integrated amplifiers. Due to the reverberant qualities of the hall, keeping stage volume and monitor levels at a reasonable level will ensure a successful sounding concert. Monitors are typically mixed from the FOH console. A 32-channel passive mic splitter is available upon request

Microphones

A range of dynamic and condenser microphones from Shure, DPA, Sennheiser, Neumann, Electrovoice, Telefunken and AKG are available. Please discuss your needs with Production Services.

Shure:

- (7) SM 57 dynamic
- (5) SM 58 handheld dynamic
- (2) SM 58/switched handheld dynamic
- (1) SM 58a Beta
- (2) SM 81 small diaphragm condenser
- (1) SM 87a handheld condenser
- (1) SM 27 large diaphragm condenser
- (1) Beta 52a

(20) Channels of Shure ULXD Wireless

- (12) HH Transmitters
- (8) Bodypack Transmitters
- (8) SM58 Capsules
- (4) Beta58 Capsules
- (4) Neumann 105 Capsules
- (8) DPA Microdot adapters
- (4) WA305 1/4" Instrument adapters

AKG:

- (4) 414 BULS large diaphragm condenser
- (2) C535eb handheld condenser

Neumann:

- (4) KMS-105 wireless capsules
- (2) KM 184

Electrovoice:

- (2) RE20 large diaphragm dynamic

Beyer:

- (4) M88TG Dynamic
- (2) M160 Ribbon

Stands:

- (12) OnStage tall tripods w/boom
- (6) OnStage Medium round w/boom
- (4) K&M Medium tripods w/boom

Sennheiser:

- (4) e604
- (2) e614
- (1) e602 II
- (2) MD 421 dynamic
- (2) e906 dynamic
- (4) e935 handheld dynamic
- (1) e901 half cardioid boundary

DPA:

- (1) 3521 piano kit (2x DPA 4021 mics)
- (5) 4099 instrument mics
- (1) DPA d:facto vocal mic

Telefunken:

- (2) M80 handheld dynamic
- (1) M82 Kick Mic
- (1) M80 Snare Mic
- (3) M81 Tom Mic

DI List:

- (2) Radial JDI
- (2) Radial J48
- (1) Radial Variable Impedance DI
- (2) Radial Pro DI
- (2) Radial Pro DI2 (Stereo)
- (2) Radial Stereo MultiMedia DI

- (2) K&M Short (Kick) tripods w/boom
- (4) Atlas tall stands

Amplifiers and Equipment

Amplifiers

Blackface Fender 65 Deluxe Reissue

Aguilar Tone Hammer 350 with 2x10 cab

Staging:

5 Wenger 4x8 riser decks with 8" and 16" legs

Microphone Drops

There are seven microphone drops from the ceiling of the concert hall. Control is manual through a series of pulleys. Three drops are located four feet upstage of the stage lip, two connected via a 2' bar located over the audience 4 feet from the lip of the stage, and two further towards the backend of the hall located at 20 feet from the lip of the stage.

Connections/Patching

Audio & Video patching facilities, tie-lines, and splitters are available for productions. All building connections are landed in the various patch bays located in the AV room.

Stage

Downstage left – 6 mics, 4 tie lines, 2 loudspeakers, 1 data, 4 AC

Downstage right – 6 mics, 4 tie lines, 2 loudspeakers, 1 data, 4 AC

Upstage center – 4 mics, 4 tie lines, 2 loudspeakers, 1 data, 6 AC

Upstage right – 3 video, 2 intercom, 1 data

Backstage – 2 intercom, 1 data, 2 light board, 1 Unisom

Orchestra

Back wall – 6 tie lines, 2 data, 2 intercom, 1 video, 4 AC

Greenroom

AVP plate – 8 Tie lines, 8 Dry Lines, 4 Mic lines, 2 intercom, 2 data, 1 video, 2 AC

Balcony Rail

House left – 2 data, 3 video lines, 2 intercom, 2 AC

House Right - 2 data, 3 video lines, 2 intercom, 2 AC

House Center – 2 light board, 1 Unisom, 4 AC

Video Monitors

Video monitors are located in several places in the SLPC. Video can be distributed to other locations on the data network via HDMI over Cat5 or through the coax connections on various plates throughout the facility.

Location	Monitor Type	Available Material
Lobby Left	40" Sharp LED	Stage Camera, Program Feed, Advertisement Feed
Lobby Right	40" Sharp LED	Stage Camera, Program Feed, Advertisement Feed
Green Room	55" Samsung 4k smart TV	Stage Camera
AV Room	Program and Preview monitors	Stage Camera, Program Feed
Concert Hall	20' Projection Screen	Program Feed

Projection



Projector

Christie CineLife+™ CP2406-RBe DCI-compliant projector
Lamp: 250W UHM lamp x4

Brightness: 6,000 DCI lumens
 Contrast: 2,000:1 full field on/off
 Resolution: 2048 x 1,080 pixels (4k)

Screen

Paragon/Series E Electric Projection Screen
 Width: 20 feet
 Height: 11 feet 3 inches
 Material: Matte White



Video Recording

Shogun Studio II Rackmount 4K Dual Recorder & Monitor

Multi-input Switching and Display

Camera model: 3x Panasonic AW-UE150KP

Concert hall has 3-camera system installed with remote control recording capability



BACKSTAGE FACILITIES

Green Room



The Green Room is located one level below the Concert Hall stage. It includes a wireless internet connection, house phone, refrigerator, microwave, private washroom with shower, stage video/audio monitor, and seating for 5-12 people. There is also an upright piano for use as warm-up or alternate rehearsal space. The Green Room is for the exclusive use of artists, crew, staff, and their guests. Please note: **there are laundry facilities in the SLPC.**

Backstage



Artist Water Closet

A private artist water closet is located in the backstage area. It may be used as a supplemental changing area if needed.

PERFORMANCE CENTER POLICIES

- All Rockport Music safety guidelines and procedures must be followed at all times.
- Smoking is not permitted in any of the internal areas, or any of the designated external areas of the House. Smoking, matches, pyrotechnics, and other naked flames are prohibited on stage.
- Artists and management should keep their particular areas (especially green room) clean, tidy, and secure.
- The Green Room is for the exclusive use of artists, hirers, Rockport Music management and staff, and their visitors. Members of the public or press are not permitted to use these facilities.
- No filming, photography, or videotaping is allowed in the Green Room without special permission.
- No food is to be prepared in the green room or other back-of-house areas.
- No crockery or eating utensils may be left in any area other than the Green Room.
- No filming, photography, or videotaping is allowed on-site unless formal permission has been obtained.
- No food or drink (besides water) is permitted in the concert hall or on stage.
- Any strobe or gunshot effects must be clearly posted via lobby signs and announced in pre-show announcements.
 - Above-mentioned effects must be approved by Production Services no later than two weeks prior to use.
 - Rockport Music reserves the right to reject requests to utilize any effects for any reason without warning.
- Glitter or confetti is not allowed on stage or in the house; any cleaning due to these items will be billed to the party responsible.
- The theater is equipped with Wi-Fi. To connect, refer to your OS instructions on how to connect to a wireless network. Network name: wifi37 password: 1234512345
- Lagging or screwing into the deck is not permitted.
- Absolutely no tape other than gaff or spike tape may be used on any equipment or surfaces in the facility

