

The Adrienne Arsht Center for the Performing Arts of Miami-Dade County

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KNIGHT CONCERT HALL Technical Specifications



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Production

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Technical Staff

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Head Audio:	Michael Feldman	786-468-2413

KNIGHT CONCERT HALL

The Knight Concert Hall was designed to be a room within a room, within a building. This design, along with isolation channels throughout the building assures the hall is completely isolated from ambient sound and vibration. The Hall is closed off from the outer reverb chamber by large doors which can be adjusted to control the dynamics of the room.

The stage is in the shape of a shallow half circle with a mean radius of 44'. There are two lifts. The inner, the piano lift, is an 18' wide by 9' deep ellipse evenly inset between the stage and the outer pit. The area of the outer Orchestra Pit measures 63'-10" wide by 8'-1" deep at center and increases to 13' deep offstage.

Please reference: [Concert Hall Ground Plan](#) or the image on page 1.

Suspended above the stage is an acoustical canopy in three parts. Each section moves independently to further tune the hall. The preset positions are designed for the specific nature of the performance. The canopy also houses 152 VL1000T and 18 VL1000TI which comprise the vast majority of the hall's concert lighting.

Loading Dock

The loading dock is located on [N.E. 13th street between Biscayne Blvd. and N. Bayshore Drive](#). The dock has three bays and can accommodate two full size trailers. Dock loads-in off stage left, deck level. Backstage head clearance is 6'-9". Anything going onto the concert hall stage must clear 6'-9" standing or laying.

Seating

The Knight Concert Hall will have a seating capacity of 2,166 distributed among an orchestra level and three tiers; including 200 choral bench seats located up-stage that may be used for patron seating.

Knights Hall Seating Breakdown

95	Orchestra Pit (if not in use)
24	Orchestra -Sound Mix Pos. (If not in use)
426	Orchestra
16	Orchestra Boxes Left and Right
432	Orchestra Circle
56	First Tier Boxes
94	First Tier Gallery
256	Second Tier Fixed Seats
78	Second Tier
441	Third Tier Fixed Seats
48	Third Tier
1966	Total
200	Choral Tier
2166	Grand Total

Knight Concert Hall Other Spaces

Concert Hall Event Space	Sq. Ft.	Capacity
Joyce and M. Anthony Burns Green Room	850	89
Ryder System, Inc. Upper & Lower Lobby	3,165	330
Mrs. Paul J. Cejas Patrons Salon	1,326	140
1 st Tier Lobby	2,330	250

Concert Hall Green Room:

Dimensions: 25' 0" D x 34' 0" W (estimate based on irregular walls)

Square footage: 850

Concert Hall Donor Lounge:

Dimensions: 39' 0" D x 34' 0" W (estimate based on irregular walls)

Square footage: 1,326

Knight Concert Hall Dressing Rooms

Please refer to [Dressing Room](#) Schedule for assignment

- 1- Conductor dressing room with private sink, toilet and shower.
- 5- Soloist dressing rooms with private sink, toilet and shower.
- 1- Large Men's dressing rooms with sinks, toilets and showers.
- 1- Large Women's dressing rooms with sinks, toilets and showers.
- 2- Choral Assembly Rooms with sinks and toilets.
 - 1- Performers lounge.
 - 2- Visiting Orchestra office.

Knight Concert Hall Stage information

The Knight Concert Hall stage has two staging elements that can be configured to provide the best use of space and acoustic reinforcement. The first is an [Orchestra Riser Palette](#) which can be deployed to create a multi tiered playing space, adjustable to a variety configurations according to the needs of the orchestra. The second is a removable [Choral Wagon \(detail drawing\)](#) positioned along the back curvature of the stage to create a more intimate playing area. Both architectural elements are time and labor intensive to reconfigure. **Any changes to the positioning or configuration of these elements must be discussed ahead of time and taken into consideration in both production schedule and budget.**

NOTE: All measurements are approximate until actual survey.
Auditorium is symmetrical about centerline.

Stage depth:	44' -6"
Stage width:	79'
Piano Lift:	18W'x9'D (elliptical)
Pit size large configuration	63'13" W x 13'D
DCS to Follow Spot Booth:	117'
DCS to Projection Booth:	100'
DCS to Sound and Light Booth	104'4"
DCS to FOH lighting Cove at center	97'10"
DCS to FOH lighting Cove near	88'10"
Stage elevation from orchestra floor.	3'6"
House mix positions to stage:	66'6"
Backstage Min Clearance	6'9"

Knight Concert Hall Audio Information

Mix Positions:

- House Mix Position: The FOH sound mix position is 9' deep x 17' wide and located 66'-6" from plaster line.

If production requires FOH to be mixed from the house, advance notice must be given in writing to allow for seat removal and adjustment in ticket sales.

Sound Control Room

Acoustically isolated room containing recording, playback, audio console, loudspeaker array signal processing equipment, patching equipment for routing microphone and line level lines and a microphone signal splitting system. Large window will be capable of opening.

Knight Concert Hall Sound Specification (04/25/08)

Front Of House:

Yamaha PM5D-RH digital mixing console (all gates, comps, eq's and effects built in)

2x Yamaha DME64N DSP (system controller)

1 Rosendahl Nanosync word clock

TC 6000 Reverb

Tascam CD1P CD player

Tascam DA1000 Digital Recorder

Left and Right PA:

Each side: 1 meyer MSL 4

2 Meyer CQ1

Center Cluster:: 3 Meyer MSL4

3 Meyer CQ2

2 Meyer CQ1

3 Meyer PSW2 subs (flown, top of center cluster)

Also: a mess o' Delay (meyer)/ Balcony (tannoy) / Front Fill (meyer) speakers

Monitors (up to 8 mixes from FOH):

3 Klark Tecknik DN360 Graphic Equalizers

4 Eaw SM200 Passive Biamp Monitors

2 Rane AC22 Stereo crossover

5 Crown 2402 Power Amps

4 EAW NT 26 active speaker

5 meyer UPA-1P active speaker

Whirlwind 48ch 3 way iso split

MICS/ DI

1- DPA 3552 Stereo Piano mic System

2- Earthworks TC20

1- earthworks DK25L drum mic kit

1- earthworks SR30 MP
(matched pair)

1- earthworks SR20

3- Sennheiser MD 421 II

1- Neumann KMS 105

4- Crown PCC160

1- Shure KSM 9

1- shure Beta 57

1- shure Beta 91

3- Shure Beta 98D/S

2- shure KSM 44

4- Shure Beta 58

2- Shure SM 57

2- Shure UR124D/Beta 58
wireless (4 channels total)

4- AKG 414

2- BSS AC133 DI

1- Radial JD6 6-channel DI

Stands/cables

Assistive Listening System:

- [SENNHEISER SI29-5](#)

Knight Concert Hall Electrical Information

Power Distribution:

Loading Dock: 1- 400amp, 1- 200amp and 1-100amp disconnects
 Stage Left 1- 60amp Isolated for sound
 Upstage Left 1- 100amp
 Back wall 1- 400amp
 Stage Right 1-100amp
 Basement 1- 200amp Isolated for sound

Lighting Information:

Overhead lighting plot consists of approximately 143 automated fixtures arranged in concentric half circles radiating upstage from the center speaker cluster. Plot must be used as hung. Due to rigging limitations it is cost prohibitive to alter the hang on the overhead acoustical canopy. We will have extensive focus, color, and effects palettes built. **Please specify if additional time is needed for show specific cueing of the VLs.**

Additionally, there are a number of conventional units to be used from the FOH cove and balcony hanging positions.

Please Reference: [Knight Concert Hall Section](#), [Light Plot](#) and [Light Write](#) File

Lighting Equipment:

Console: High [End Systems Wholehog III](#). With Expansion Wing running WYSIWYG

Lighting Fixtures

Quantity	Description	Manufacture	Wattage	Lamp Type
16	10 deg ellipsoidal	ETC #410	750W	HPL 750/115
24	15-30 deg ellipsoidal zoom	ETC #41530	750W	HPL 750/115
16	25-50 deg ellipsoidal zoom	ETC #42550	750W	HPL 750/115
2	HMI Followspot	Lycian Supar Star #1275	1200W	1.2kw HMI
12	VL500	Vari Lite	1000W	Philips Tungsten
120	VL1000 T ERS	Vari Lite	1000W	Philips Tungsten
11	VL1000 TI ERS	Vari Lite	1000W	Philips Tungsten