



WILLIAM PATERSON UNIVERSITY

Shea Center for Performing Arts

Technical Specifications

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STAGE



Extended apron stage with 21'-0" deep apron located at bottom of steeply stepped house. Stage floor is black hardboard over plywood over concrete, in good condition. A 360-degree video of the stage is available [HERE](#). Located in the lower left of the campus, click on the blue building to see the stage where it has a small picture.

- Stage height: 0'-8"
- Proscenium width: 42'-0"
- Proscenium height: 19'-5"
- Downstage edge to plaster line: 21'-0"
- Plaster line to upstage cages: 19'-6"
- Apron width (curved): 52'-0" at widest point
- Stage left wing: 15'-0"w x 15'-0"d
- Stage right wing: 10'-0"w x 10'-0"d
- Grid height: 32'-0"

LOADING DOCK

Located off stage left with access to the stage through scene shop and up a ramp that is 3.5'-0"w with a 0'-16" rise. Accommodates one truck. Ramp available. Trucks may remain parked in the loading dock at the discretion of Campus Police and the Production Manager. Tour bus may park next to loading dock. There is no shore power.

- Loading dock height: 3'-4"
- Dock door: 14'-0"h x 8'-0"w
- Stage door: 12'-7"h x 9'-0"w

ORCHESTRA PIT

Hydraulic pit operated from stage left. Located 5'-0" upstage of the edge of the apron. Normally stays at stage level position. Accommodates about 15 musicians. A Pasarell is created with the pit down.

Dimensions: 35'-0"w x 9'-0"d (at the widest points)
Down position: 6'-8" below stage level

POWER

Company switch located directly off stage right near proscenium wall. Approximately 15'-0" of cable required. 3-phase, 400 amps per leg, 5-wire, bare end tie in. There are 3" mouseholes between the company switch and the stage.



FLY SYSTEM

Single purchase counterweight system with 16 line sets each with an arbor capacity of 1000 lbs. 5 dedicated electrics, 3 dedicated travelers. **Important note: high trim is only 8' above the proscenium.** There is no loading gallery. Lock rail located stage right.

- Total weight: 7,760 lbs. (1,484 lbs. available with rep plot in place)
- Battens: 0'-1.5" OD steel, approximately 52'-0" long
- High trim: 29'-0"h
- Low trim: 5'-0"h

Steel: Four oversize structural beams run upstage/downstage. Flange is 11 5/8". Beams are 12' 6" apart and split center (6'3" off center).

SOFT GOODS

Travelers and their tracks will not be moved.

- 3 travelers: 21'-0"h x 60'-0"w, black velour, 50% fullness
- 1 pair of legs: 21'-0"h x 8'-0"w, black velour, 50% fullness (additional set of legs available)
- 3 borders: 6'-0"h x 52'-0"w, black velour, 50% fullness
- 1 cyclorama: 19'6"h x 45'-0"w, white cotton muslin
- 1 Black Sharkstooth Scrim: 21'-0"h x 45'-0"w

ADDITIONAL EQUIPMENT

- 1 - Steinway 9'-0" concert grand piano
- 110 - black upholstered stacking music chairs
- 60 - Manhasset black music stands
- 40 - wired music stand lights
- 11 - wireless LED music stand lights
- 9 - wireless LED music stand lights
- 8 - Wenger Acoustic Shell pieces 13'5"h x 6'-0"w
- 1 - US Flag
- 1 - NJ Flag
- 5 - Wenger 4'-0" x 8'-0" platform risers at 0'-8", 0'-16", 0'-24", and 0'-32" rises
- 6 - folding tables 6'-0" x 2'-6"
- 2 - folding tables 4'-0" x 2'-0"
- 1 - conductor's podium
- 1 - conductor's music stand
- 2 - lecterns
- 1 - 10'-0" x 16'-0" white projection screen on pipe frame
- 1 - Genie Personnel Lift 30'-0"
- Dance Marley Floor
- Assorted step and extension ladders
- Assorted hand and power tools

PROJECTION

Note that the entire house is stepped with no projection booth or good options for front of house projection.

- 1 – Epson 12K Lumens PowerLite Pro L1500UHL projector with short throw lens V12H004UA3 mounted on first electric. Produces an approximately 35' image on the cyc.
- 1 – 10'x 16' white perforated front projection screen
- 1 – 12'x 16' grey rear projections screen
- 1 – 16'x 16' black rear projection screen



HOUSE

The house is stadium style and completely stepped. The Orchestra has Continental style seating (end aisles only) and the Loge has American style seating (center aisles). Due to the large number of stairs in this theatre the houselights will not blackout completely and will remain at a glow even when at 0%. There are two marked fire exits on the apron, stage left and stage right. As per fire laws, no exit or exit sign may be blocked or altered in any way.

Capacity: 900 and 6 wheelchairs with 6 companions

DRESSING ROOMS

There are 2 chorus dressing rooms located off stage right, through the Green Room. Each dressing room contains lighted mirrors, stage monitor, wardrobe rack, toilet facilities, one shower in each dressing room, and can accommodate approximately 15 people. Call if special accommodations are required.

Green Room area with serving counter is located outside of the dressing rooms. It is not suitable for use as an additional dressing room space. There are no wardrobe facilities located in the theatre. There is a refrigerator located in the green room with a pad lock. A steamer, iron and ironing board, and basic supplies are available. Laundry facilities are available in an adjacent building.

LIGHTING

Rep Plot:

A repertory plot adequate for most productions is kept always hung.

Dimmers:

192 Colortran Dimension Series 2.4kW (18 dimmers are dedicated to house lights)

Protocol: CMX converted to DMX

Control:

ETC Ion XE lighting console with additional fader wing and ELO Touch Monitor and a second Dell Monitor

Currently supporting two Universes

iPad with the with ETC Remote App

Control Locations: booth (back of house left) or stage right

There is no ETCNet in the space.

House Lights:

Controllable by either push button house light stations or the lighting console

Circuits:

Permanent twist lock L5-20

20A circuits

Circuit Count:

(dimmer schedule available)

- Cove: 32
- Far Booms: 6 each
- Near Booms: 6 each
- Tormentors, top: 4 each
- Tormentors, bottom: 4 repeating stage left and stage right
- Electrics 1-5: 16 each
- Follow spot Booth: 6
- Floor Pockets: 19, some circuits repeat



Twist Lock Cable:

(not in use)

- 19 - 5'
- 13 - 10'
- 6 - 15'
- 9 - 20'
- 22 - 25'
- 12 - 50'
- 3 - 60'
- 1 - 75'
- 6 - 2-fers
- 4 - 3-fers

Adapters:

- 4 - female twist lock to male Edison
- 9 - male twist lock to female Edison
- 6 - male twist lock to female stage Pin
- 2 – female Edison to male stage Pin
- 5 – male Edison to female stage Pin

Front of House Positions:

- Cove: 32'-0" to downstage edge (20-degree angle), 42'-0" to plaster line (45-degree angle)
- Tormentors: 13'-0" to plaster line
- Near Booms: 21'-0" to plaster line
- Far Booms: 20'-0" to downstage edge, 40'-0" to plaster line

Lighting Instrument Inventory:

- 8- Altman 360Q 6x16
- 8- Altman 360Q 6x22
- 18- Chauvet COLORado 1 Quad Zoom VW
- 6- Chauvet Professional Rogue Spot E1
- 20- Chauvet Rogue R1 Wash
- 20- Chauvet Rogue R1 Spot
- 24- Elation Seven Batten 72
- 2- ETC S4 10° @575w
- 6- ETC S4 19° @ 575w
- 45- ETC S4 26° @ 575w
- 27- ETC S4 36° @ 575w
- 8- ETC S4 Bodies
- 27- ETC S4 PAR NSP @ 575w
- 12- ETC S4 MFL @ 575w
- 32- ETC S4 PAR WFL @ 575w
- 23- ETC S4 PARnel @ 575w
- 14- Elation Seven Batten 72 LED (Ground and Sky Cyc Lights)

Extra Lense Tubes:

- 4- ETC 26°
- 24- ECT 36°
- 3- ETC 50°



Follow Spot Booth:

Open booth located center, above Loge

Throw: approximately 90' from plaster line

2 - Lycian Superstar 1.2 factory refurbished followspots, 1200W HMI, 5600-degree K

Additional Lighting Accessories:

- 20 – 6" top hats
- 15 - 6" barn doors
- 6 – booms (50lb Bases, Schedule 40 Threaded pipe @ 16'-0")
- 38 - side arms

HAZE AND FOG

Great discretion must be used with Haze and fog effects to avoid setting off the fire alarms. University policy prohibits silencing /disabling the fire alarm system as well as covering or otherwise tampering with smoke detectors. The stage right door to the dressing room area must be kept closed during the use of haze/fog.

AUDIO

Mix Positions:

Main control room is located in the rear of house left. Console may be placed in the transverse aisle, house left.

Mixing Console and Audio I/O:

- Yamaha DM7 with Dante network
- Yamaha Rio3224-D2 mounted stage left (32 XLR inputs and 16 XLR Line outputs)
- Yamaha Rio1608-D2 can be placed anywhere in theater (16 inputs and 8 outputs)

PA System:

- **L-Acoustic stereo line array**, 8 x A15 full range speakers splitting either side of the proscenium (3 focus + 1 wide boxes/side).
- 4 x KS21 subwoofers, split to each side of the deck. 2 x L- Acoustic X8 delay speakers, splitting center to cover loge corners Powered by 4 x LA4X amplifiers.

Two QSC K8 powered loudspeakers and QSC KW181 powered subwoofers are also available (speaker stands/sub pole mounted)

Stage Monitor System:

Monitor Console- Yamaha M-7

6 - EAW SM122E wedge monitors

2 – EAW 129zi wedge monitors

4 - Community MX10 wedge monitors

1 - Galaxy Audio hotspot monitors (powered)

4 - JBL PRX 712 (powered)

2 - QSC K8 (powered)



Wired Microphones/DIs : (may change, email for latest mic list)

- 12 - Shure SM58 cardioid dynamic microphones
- 4 - Shure Beta 58 super cardioid dynamic microphones
- 3 - Shure SM57 cardioid dynamic microphone
- 2 - Shure Beta 57A super cardioid dynamic microphone
- 2 - Shure SM7 cardioid dynamic microphone
- 7 - Sennheiser MD 421-4 cardioid dynamic microphones
- 1 - Sennheiser e845 dynamic microphone
- 1 - Sennheiser e609 dynamic microphone
- 3 - Sennheiser e604 clip on drum microphone
- 3 - Sennheiser ME67 shotgun microphones
- 2 - Telefunken M80 supercardioid dynamic microphone
- 2 - Telefunken M82 cardioid dynamic microphones
- 5 - Electro Voice RE-20 cardioid dynamic microphones
- 1 - AKG D112 dynamic microphone
- 1 - Audix D6 dynamic microphone
- 2 - DPA 4099 (piano mounts only)
- 1 - Neumann KMS 105 supercardioid microphone
- 2 - AKG C214 cardioid condenser microphone
- 4 - Shure SM81 condenser microphone
- 2 - Neumann KM184 condenser microphones (matched pair)
- 2 - Shure MX418 condenser lectern microphone
- 3 - Crown PCC 160 boundary microphones
- 8 - Audio Technica Pro 45 hanging choir mics
- 6 - Radial ProD2 stereo ¼" DI
- 2 - Radial ProDI mono ¼" DI
- 2 - Whirlwind PC-DI direct box
- 2 - AKG C3000 (permanently hung from cove)

Wireless Microphone System:

- 3-Shure ULXD4Q Four channel receiver
- 1-Shure ULXD4D Two channel receiver
 - with 10 ULXD4-G50 Handheld SM58 transmitters
 - with 18 ULXD1-G50 Bodypack transmitters
- 1 - RF Venue Diversity Fin Antenna hanging from the cove

Playback and Recording:

- 1 - 2020 iMac with Dante Virtual Soundcard and DAW software (Pro Tools, Nuendo, Reaper)
- 1 - Denon DNC-630 CD Player
- 1 - Denon DNC-635 CD Player

Accessories:

- 25 - KM folding, tripod tall-boom mic stands
- 8 - Folding, tripod short-boom mic stands
- 6 - Table-top mic stands
- 6 - Straight round base mic stand
- 4 - Straight triangular base mic stand with grip-adjusting height Euro Style nut
- 1 - Tall telescoping Shure tripod stand
- 2 - Conquest Sound 6 channel two-way splitter boxes (unbuffered).
- 1- Whirlwind medusa 32-channel analog split
- 1 - Stereo bar



Audio Cables:

XLR

- 10' - 12 cables
- 15' - 11 cables
- 20' - 7 cables
- 25' - 13 cables
- 30' - 8 cables
- 50' - 11 cables

Stereo cables - 3 various lengths

- 1 - 24 channel 125' snake
- 1 - 9 channel 150' snake
- 1 - 16 channel snake, 100'
- 1 - Mini6 6-channel 50' snake
- 1 - Mini12 12-channel 75' snake
- 1 - Stereo XLR 100'
- 1 - Stereo XLR 50'

Speaker cables

- 11 - short single channel NL4
- 12 - long single channel NL4
- 11 - ¼" cables of varied lengths

Various lengths of ¼" cables

Adapters:

- 1 - 2 to 1 Stereo to Mono Combiner
- 1 - Line Matching Transformer
- assortment of XLR and NL4 turn-arounds

Paging System:

Located in Auxiliary Control Room. Feeds dressing rooms, Green Room, SR, SL and Scene Shop. Stage monitor and page mic. Video monitors available in Green Room, Control Room, Aux Control, SR, SL, Crew Shop & Lobby.

Headsets:

- 8 set locations+3 additional - belt packs
- 11 - single muff headsets

Clear-com intercom system, hard wired to all operating positions including the control rooms, followspot booth, stage left, Fly rail/stage right, and cove.

Assisted Listening System:

- 10 - HDI 830 personal listening units.
 - 6 - SZI 1015 Infrared transmitters; 3 above center-cluster, 3 along delay ring
 - 1 - SI 1015/NT Master Modulator
- Feed is from the house recording mix.



MISCELLANEOUS

- Stage crew is a combination of trained students and freelance professionals.
- Smoking is prohibited by law in all University facilities, therefore no smoking is allowed anywhere in the building.
- Eating and drinking in the house is not permitted, except for water and bar beverages purchased at the venue.
- The house opens half an hour before curtain.
- A prerecorded safety announcement will be played within five minutes of curtain, as per fire regulations.
- The house receives a 20% commission from all lobby and merchandise sales or \$500.00 merchandise buyout.
- Confetti and Glitter is not permitted in the space.
- There is no public Wi-Fi

CONTACTS

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