



## **DESCRIPTION OF FACILITIES**

Office: (413) 584-9032  
Email: [info@aomtheatre.com](mailto:info@aomtheatre.com)  
<http://www.aomtheatre.com>

*Revised – July 20, 2016*

## **AUDITORIUM**

Hemp house built in 1891

### **Seating Capacity:**

<b>TOTAL:</b>	803
Orchestra:	391
Loge:	152
Upper Balcony:	244
Wheelchair Spaces:	16 (orchestra level only)

NOTE: 48 seats are partially obstructed by posts

## **DRESSING ROOMS**

- First floor 5 @ 3 persons
- Basement: 2 @ 4 persons, 1 @ 8 persons, 2 @ 2 persons.
- Bathrooms are located on the first floor and at the basement level.
- There is a shower located on the first floor.
- Wardrobe area is located in the basement.
- There are no washers or dryers in the facility; however, a laundromat and dry cleaner are located within walking distance.

## **STAGE CARPENTRY/RIGGING**

### **Stage Dimensions:**

Proscenium Width:	35'-6" Plaster to Plaster
Proscenium Height:	25'-8" Floor to Plaster
Stage Depth:	34'-0" Stage edge to back wall.
Stage Width:	63'-0" Wall to Wall
Gridiron Height:	55'-0"
Stage Right Wing:	14'x22' approximately
Stage Left Wing:	14'x32' "

NOTES: Obstacles in the wings: stairway down to basement (stage right) and spiral stairway up to fly floor (stage left). See floor plan for details.

### **Stage Floor:**

Masonite – Tempered Hardboard painted black over straight grained fir T&G  
Marley: Black dance floor available with written permission from Academy of Music management.

NOTES: Written approval must be obtained from Academy of Music management before anything is screwed into the stage floor.

### **Stage Drapery: Fixed Positions:**

- House Curtain: Green/Gold Brocade; guillotine only.
- Fire Curtain: Asbestos, rigged with fusible links and cut line.
- Downstage Traveler: Red Silk Velour. Cannot be flown or removed from pipe.
- Motion Picture Screen - Permanently mounted; may be flown but not removed from pipe.

### Stage Drapery - Movable Inventory:

- (6) Velour Legs, 8'w x 24'h.
- (2) Velour Borders, 40'w x 4'h.
- (2) Duvetyne Borders, 40'w x 4'h.
- Split Velour Black, each panel 22'w x 25'h.

NOTES: All the above curtains are flat; no fullness sewn in.

- Black Scrim 40'w x 24'h.
- White Cyclorama (Filled Scrim) 40'w x 24'h

### Lineset Information:

The Academy is a "hemp house"; all linesets consist of four polyester or hemp ropes lifting a forty-foot long pipe. Loaded pipes are lifted with a block and tackle and counterweighted with sandbags.

- Working load of polyester linesets - 350 lb.
- Grid Height - 55 feet.
- Pin rail is stage left at 26 feet from stage floor.
- There are 27 working linesets.

### Load-In Information:

- The stage access from the loading dock is located upstage center.
- The door size is 4' x 8'
- The motorized loading dock door is 8'w x 10'h – 18" from ground level

## **LIGHTING**

\*Detailed house rep plot and current inventory available upon request Technical Director.

### Instrument Inventory (In Rep Plot Only):

- 4 Source Four 26 degrees
- 8 Source Four 19 degrees
- 30 Altman 6x9s (axial)
- 24 Altman 6x12s (axial)
- 2 Altman 6x16s (axial)
- 4 Strand 6x12s (axial)
- 12 ETC D60 Desire Series LED lights
- 16 Altman Par 64s
- 5 3Cell Altman Focusing cyc lights

### Dimmers/Control

- 2.4 KW Dimmers (ETC Sensor).
- ETC Element lighting control console.
- DMX connection for the console is located downstage right.

### Power

- One (1) 400-Ampere, three-phase company switch located down stage right.

### House Lights

Dimmable in three zones; controlled from stage right and the Tech Table at back of house.

## Focusing

- Genie lift available. Platform rises to 25 ft.

## PIANO

- 5'5" Baldwin baby grand – Walnut finish

## HOUSE AUDIO

### DESCRIPTION

Welcome to the AOM audio system Designed and Installed by Sound Engineer Jason Raboin of Camden Sound – camdensound.net

The main system is comprised of 4 Fulcrum Acoustic FX1595 single 15" coax speakers. There are two speakers house left and two house right, each hung from the vertical pipes that run up the sides of the proscenium. Given the restrictions we have in a Historic Theatre regarding speaker placement and the absence of rigging points, we felt this was the best placement to provide even coverage, fidelity, and imaging.

There is no front fill, though coverage proved to be excellent, even in the front row.

There are two double 15" Fulcrum Acoustic Sub215 subs. They are center clustered in the orchestra pit. This creates a smoother dispersion over L/R placement and you get the added bonus of coupling. The sub wrap at center stage position is surprisingly not overwhelming, and is helped greatly if you position your center mic at least 4' upstage from the downstage edge of the apron.

Amplification and processing is done in Ashly NXP amps. Each main gets its own channel of NXP8004 and each 15" sub driver gets its own 1250 watt channel of an NXP1.54, for a total of 5000 watts of sub. With L/R and sub send all set to 0, you are at around +9 at 50hz.

There is no computer to access the DSP. If, over time, there is a consensus from frequent engineers or touring engineer feedback that something should change, we will do so.

When tuning, we went for alignment and a consistent frequency response throughout the theatre. We did not try for a flat tuning. If you want to have an idea of a good starting point, there is a graph saved in the QL1 library called JR flat.

Be aware that there is a dip in the frequency response at mix position centered at around 125hz. Unlike most venues where there is a low end buildup under the balcony, it is the opposite at the Academy of Music Theatre. There is also a buildup at mix in the 800hz-1k range. We think this is due to the overlap in coverage of the main level and balcony speakers.

The system limiting is not severe. You can break this system. Please stay out of limit and keep guest engineers out of limit. The amps are located at mix position and clearly labeled.

Console is a Yamaha QL1. There are only 16 analog mic level inputs on it, so we added an MY card for an additional 8 analog line level inputs on XLR connectors. These can be for iPod, other playback devices, and the wireless mic is patched to input 3. On the starting show file, it is in channel 19.

If your show requires more than 16 mic inputs, a RIO 8 channel Dante interface can be rented locally to bring the mic input count to 24.

The console has 8 XLR analog outputs and one AES pair on an XLR connector. There are no 1/4" or RCA input or outputs on the console.

Other notes on the starting file: 17/18 is labeled for an iPod or whatever device you plug into the

correspondingly labeled iPod inputs. Aux 6 sends to the subs. Left and right are sent from matrices 1 and 2. Left and right masters should already be dialed up into the matrices.

There are 2 high quality Fulcrum Acoustic FA12 monitors. There is an Ashly NXP8004 amp to power these monitors that lives in its own rack on stage. Each monitor only requires 1 amp channel, so channels 3 and 4 are currently unused. The DSP in all 4 channels of the amp has been set to process FA12's, so by renting an additional 2 wedges you can do 4 wedges on 4 mixes. Ask Hugh Hall about arranging to rent more FA12.

There are 2 QSC K10's and 2 QSC K8's for use as additional monitors or however you see fit.

Sound in conjunction with projected/screen presentations is provided by the house sound system, supplemented by an additional amplifier for eight surround sound speakers located around the orchestra level and upper balcony of the auditorium. The signal is processed by a Technics Digital Surround Processor SH-AC500D. Surround sound speakers and processor are used for video presentations only. The QL1 console is not required for video presentations.

### **AUDIO EQUIPMENT INVENTORY**

- 1 Yamaha QL1 Console
- 1 Shure QLX-D Wireless Handheld mic
- 1 EV Handheld Wireless mic
- 1 Sampson Concert 88 Wireless mic
- 1 Shure SM94
- 1 Audio Technica AT873R
- 1 Audio Technica AT8035 PCC
- 3 Crown PCC
- 1 Sennheiser ME66/K
- 2 Shure KSM 137
- 3 Shure SM57
- 7 Shure SM58
- 6 Shure MX202B/C Choral mics
- 2 Audio Technica AT8533X Choral mics (white)
- 2 Fulcrum Acoustic FA12 Monitors
- 2 QSC K10 Powered Monitors
- 2 QSC K8 Powered Monitors
- 6 DI Boxes
- CD Player
- Cassette Player
- 1 Snake 24 Channel XLR with 4 XLR Returns located stage right at the proscenium – runs FOH to stage
- 1 CAT5 Line FOH to Stage right at the proscenium
- 1 CBI Drop 8 50'
- 1 CBI Drop 8/4 50'
- 1 CBI Breakout Cable 15'
- Assortment of XLR Cable various lengths

- 7 Tall tripod boom mic stands
- 4 Short tripod boom mic stands
- 3 Chrome tall weighted base mic stands
- 1 Chrome short weighted base mic stand
- 4 Desk weighted base mic stands
- 2 Guitar stands

## **COMMUNICATION**

- Clear-Com Communication between FOH lighting, stage mgt., sound, stage L&R, and fly rail.

## **AUDIO/VISUAL EQUIPMENT**

- Sanyo PLC-HP7000L - 7000 Lumen Video Projector (fills 16'x 35' screen from bottom balcony) HDMI video input
- Dalite Lexington 25" Podium, Oak, lighted with clock.

## **STAGE CREW REQUIREMENTS**

The Academy of Music stage crew members are provided under the terms of an agreement with the International Alliance of Theatrical Stage Employees Local 232. Please contact the Academy of Music Theatre Technical Director to set up a production meeting. A written estimate will be made available to help plan your production.

The Technical Director of the Academy of Music is:

**Hugh Hall**  
 Phone: 413-584-9032 x100  
 Cell: 413-461-6683  
 Email: [hhall@aomtheatre.com](mailto:hhall@aomtheatre.com)

## **ADDITIONAL SUPPORTING DOCUMENTS** (available on request)

- Map to the Academy of Music
- Floor plan and section of the stage
- Line Plot
- Dressing Room Plot

## **NORTHAMPTON AREA SERVICES – EMERGENCY NUMBERS**

Police & Fire	911
Cooley Dickinson Hospital	413-582-2000

## **KEY STAFF**

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