

7/15/2022

Cascade Theatre Technical Specifications & Systems

For additional formation about the theatre's technical capabilities contact Todd Tracy, Operations & Technical Manager at 530-243-8886 ext 312 or toddtracy@cascaedtheatre.org.

Stage, Orchestra Pit & Loading Access

- Stage -- 28' deep at center stage with a 2' arched thrust that is approximately 27' wide; 44' wide between the proscenium opening
- Stage left wing with bay doors – 12' deep proscenium to back wall and 14' wide from proscenium to offstage bay doors
- Stage right wing with fly rail – 12' deep proscenium to back wall and 9' wide from proscenium to offstage fly rail
- Orchestra Pit – 8'6" deep at center stage, arched to 4'11" deep at stage right and 6'3" deep at stage right; 34'4" wide
- Wenger STRATA Orchestra Pit Filler available to extend stage depth to 34'6" at center stage
- Lineset Schedule available on request.

Electrical Power Distribution

- 100-amp, 3-phase service at stage left monitor position on standard mini-cams or bare tails
- 400-amp, 3-phase power disconnect for lights upstage left with 2/0 Cam-Loc connections
- 3 – 3-phase 30 amp rackmount power distro
- 10 - Edison power outlets on separate 20-amp circuits on stage
- 6 - Outlets on the upstage side of the orchestra pit and 4 audio dedicated outlets on each side of the stage at the down-stage corner just in front of proscenium
- 2-240volt 50 amp Shore Power Outlet located on back wall of building.

Audio / Front of House Console

- Yamaha M7CL (V.3.56) 48 mono/4 stereo input channel digital console

Audio / House Mains

- Right / Left - 6 Meyer JM-1P powered loudspeakers (3 per side)
 - Center Fill - 1 Meyer M1D powered loudspeaker
 - Subs – 2 Meyer 700-HP powered subwoofers
 - Balcony Fill - 2 Meyer UPJ-1P powered loudspeakers (1 per side)
 - System processor - Meyer Galileo 408 Loudspeaker Management System
 - Total house wattage: approximately 13,250 watts
- See Meyer Sound/Cascade Theatre Case Study

Audio / Outboard Signal Processing

- 4 channels of gating – Drawmer DS404
- 8 channels auto comp / limiters – Drawmer DL441 (4 ch. comp/lim x2)
- 1 - TC Electronics M2000 dual engine reverb
- 1 - Tascam CD player with iPod dock and 1/8th" input
- 1 - Zoom H2 Digital recorder

7/15/2022

Audio / Input Snake & Stage Returns

- 40-channel transformer isolated 2 way splitter with input from stage to front of house and monitors on balanced XLRs (stage left location)
- 20 channels of fold-back from front of house to stage on balanced XLRs

Audio / Monitor System

- Allen and Heath ML5000 40x16x8 Console
- 1 - TC Electronics EQ station – 8 channel fully programmable
- 11 - EAW SM200iH bi-amped wedges
- 2 - Meyer CQ2 powered loudspeakers (Side Fill)
- 8 - QSC PLX 2402 Stereo / dual mono / bridged mono switchable amplifiers – 1,200 watts/channel (2 Ohms); 425 watts/channel (8ohms)
- 1 - QSC PLX 2502 Stereo / dual mono / bridged mono switchable amplifier

Audio / Microphones

- 5 - Shure Beta 58 microphones
- 1 - Shure Beta 87a microphone
- 5 - Shure SM58 microphones
- 10 - Shure SM57 microphones
- 5 - Shure SM81 condenser microphones
- 8 - Shure QLXD wireless systems with belt packs
- 4 - Shure ULX wireless handheld transmitters with Beta 58 capsules
- 8 - Countryman B3 lavalier microphones
- 2 - Countryman E6 Headworn microphones
- 8 - Shure 1/4" plug to wireless beltpack cables
- 1 - Shure Beta 52 kick drum microphone
- 1 - AKG D112 kick drum microphone
- 4 - Shure Beta 98c clip on drum microphones
- 1 - Shure Beta 91 kick drum/ boundary microphones
- 2 - Radial Pro2 Stereo passive D.I.s
- 3 - Radial Pro48 active D.I.s
- 3 - Klark Teknik DN100 active D.I.s
- 1 - Cascade V57 large diaphragm condenser microphone
- 2 - Cascade M39 condenser microphones

Audio / Stands & Miscellaneous Equipment

- 10- AKG tall boom stands with tripod bases
- 5 - AKG short boom stands with tripod bases
- 5 - Atlas straight stands with weighted round bases
- Assorted sub snakes and cabling

House Intercom System

- Production Intercom base station 200 (Clear-Com compatible)
- 6 - Belt packs
- 6 - Headsets
- 2 - Handheld phone-sets
- 2 - Listening stations

7/15/2022

Theatrical Lighting / System Overview

- 120 channels of DMX dimming 1.2K
- 12 channels of DMX dimming 2.4K
- Distributed DMX In / Out
- Socapex multi's and fanouts
- Stage pin plugs
- Fly rail with 4 electrics
- 6 - House side boom positions
- Balcony rail position
- 8 - 50 lb. floor bases for stage booms

Theatrical Lighting / Consoles

- High End Systems RoadHog 4 (4 Universe)
- High End Systems Hog 3 PC Playback Wing
- High End Systems Hog 3 PC Programming Wing
- High End Systems Hog 3 PC DMX Widget (X2)

Theatrical Lighting / Instruments

- 84 - ETC Source Four™
- 20 - 10° Barrel
- 10 - 14° Barrel
- 18 - 19° Barrel
- 10 - 26° Barrel
- 48 - 36° Barrel
- 4 - 50° Barrel
- 10 - Par 64
- 12 - Generic RGB LED Par
- 8 - Chauvet Pro B-1965FC Batten Fixtures

Theatrical Lighting / Moving Lights

- 2 - Chauvet Pro Maverick Force S Profile
- 2 - Martin Mac 700 spot fixtures (700 watt arc)
- 3 - Yue Yuan 5R Beam "Sharpie" moving lights

Theatrical Lighting / Dimming

- 10 - 12-channel ETC SmartPack 1.2K dimmers
- 6 - Leprecon™ 2.4K dimmers
- 2 - Lycian™ Starklight follow spots (1,200 watt / long throw)

Digital Projection / Video

- 1 - Christie HD14K-M 1080 HD Digital Projector (3-chip DLP, 14,000 lumen)
- 1 - OPPO BDP-103 blu-ray player
- 1 - Harkness Hall matte white plus screen, 17'6" high by 40' wide with truss style aluminum frame

7/15/2022

Backline / Instruments

- Baldwin 9' concert grand piano
- Baldwin 7' concert grand piano
- 1 - Yamaha P255 88 key Stage Piano

Dressing Rooms

No elevator access to dressing rooms or green room. Production office is in the common green room.

- 2 - Star dressing rooms with adjacent bathrooms with showers
- 2 - Chorus/group dressing rooms
- 1 - Multi-use green room with refrigerator and microwave (outfitted with sinks and mirrors to double as additional dressing rooms if needed)
- Dressing rooms and green room accessible from both stage right and left
- Green room area has access to theatre's LAN through hard wired or wireless connection