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@cascadetheatre.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
• 4 - Edison power outlets on one 20-amp circuit on upstage wall
• 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

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)
• 2 - TC Electronics M-One XL multi-FX units
• 1 - TC Electronics D-Two digital delay processor
• 1 - TC Electronics M2000 dual engine reverb
• 1 - Tascam CD player with iPod dock and 1/8th" input
• 1 - Zoom H2 Digital recorder

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
• 1 - Ashley Protea 4-channel fully programmable 31 band graphic EQ
• 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
• 11 - Shure SM57 microphones
• 5 - Shure SM81 condenser microphones
• 3 - Crown PCC 160 floor microphones
• 12 - Shure ULX wireless systems with belt packs
• 4 - Shure ULX wireless handheld transmitters with Beta 58 capsules
• 8 - Countryman B3 lavaliere microphones
• 4 - Countryman E6 head worn condenser microphones
• 2 - 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
• 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
• 6 - Atlas straight stands with weighted round bases
• 4 - Klark Tecnic active DI's
• 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

Theatrical Lighting / System Overview

• 48-channel memory console

- 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 3 electrics
- 6 - House side boom positions
- Balcony rail position
- 8 - 50 lb. floor bases for stage booms

Theatrical Lighting / Consoles

- High End Systems Whole Hog III (2 Universe) Running Hog 4 Software

Theatrical Lighting / Instruments

- 70 - ETC Source Four™
- 6 - 10° Barrel
- 18 - 19° Barrel
- 10 - 26° Barrel
- 48 - 36° Barrel
- 2 - 50° Barrel
- 16 - Par 64
- 12 - Selecon 8" Fresnell 1,000 watt lamp
- 8 - 3 Cell CYC Lights (green, blue, red)
- 1 - ShowLED Star Drop 44'wide x 22'tall

Theatrical Lighting / Moving Lights

- 2 - **Martin Mac 700 spot fixtures (700 watt arc)**
- 4 - 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™ Starlight** follow spots (1,200 watt / long throw)

Film

- 1 - Christie 4,000 watt Xenon console with AM-3 platter automation
- 1 - Dolby CP45 3.1 analog A-type cinema processor
- 1 - Harkness Hall matte white plus screen, 17'6" high by 40' wide with truss style aluminum frame

Digital Projection / Video

- 1 - Christie HD14K-M 1080 HD Digital Projector (3-chip DLP, 14,000 lumen)
- 1 - Denon DN V200 Pro progressive scan DVD player
- 1 – OPPO BDP-103 blu-ray player

Backline / Instruments

- Baldwin 9' 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