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)](https://www.martinc Lighting.com/700)
• 4 - Yue Yuan 5R Beam "Sharpie" moving lights

**Theatrical Lighting / Dimming**

• 10 - 12-channel [ETC SmartPack 1.2K dimmers](https://www.etcconnections.com)
• 6 - Leprecon™ 2.4K dimmers
• 2 - [Lycian™ Starklight](https://www.lycianlighting.com) 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](https://www.christiedigital.com) (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