

**Regent University Communication and Performing Arts Center**  
**Main Theatre Sound System Specification**

**Loudspeakers**

The PA System is a multi-channel sound system, designed to support theatrical, musical and cinematic presentations. It consists of (4) EAW AS660 and (3) EAW AS690 three-way, bi-amplified 60 and 90 degree cabinets configured in a Left-Center-Right arrangement about the Proscenium opening. Two dual 15 inch subwoofers, EAW SB625e, are installed along with the L-C-R cabinets and are fed with the L-C-R signal, as well as, being individually accessible.

Twenty EAW JF-80 Speakers are configured into eight zones to create Left Surround and Right Surround coverage in the Theatre.

Speaker coverage was mapped and designed using by the EAW Engineering Department, with the support of the contract installer.

**Stage Monitors**

Stage monitors consist of (6) EAW SM-200iH low profile 2”HF/12” LF stage monitors and (2) EAW LA-212 2”HF/12” LF stage monitors. Monitor circuits are all passive crossover and mixed from the Front of House Mixer.

**Power Amplifiers**

All power amplifiers are QSC PLX Series amplifiers, including (4) PLX 1202, (4) PLX 3002, (1) PLX 3402 and (9) PLX 2402.

**Equalization**

Sound System equalization is accomplished in a Peavey Media Matrix DSP Processing System, with computer-aided mapping and solutions provided by the EAW Engineering Department.

Twelve channels of dBx Drive Rack 442 Equalization and Loudspeaker Management System provide eight channels of monitor equalization and four channels of patchable utility equalization, with remote controller.

An additional (6) one third octave equalizers are available in the Yamaha DM-2000 Digital Mixer.

**Front of House Mixer**

Sound system mixer is a Yamaha DM-2000 Digital Mixer. It includes 24 analog pre-amp inputs and 32 analog line level inputs fed by 48 pre-amp channels supplied by (6) Rane NM-84 Network Preamplifiers. The mixer has 24 fader channels working on 4 layers of channels, for a total of 96 channels. There are 8 Groups outputs, 12 Auxiliary outputs and 4 Matrix outputs.

**Microphones**

Available microphones include: (12) Shure SM-58, (2) Shure SM-87, (8) AKG C535, (5) Shure Beta 98D/S, (2) Shure Beta 91, (8) Shure SM-57, (2) Shure SM-81, (1) AKG D112, (2) EV RE-20, (2) AKG C414, (4) Shure MX-393/C Boundary Microphones, (1) Shure WCM-16 Headworn Microphone, (6) Country ER6 Headworn Microphone (for wireless systems), (16) Shure ULXP2

Wireless Receivers, (16) Wireless pack transmitters and (8) Wireless SM-87 wireless hand transmitter.

Stands, cables and DI box interfacing equipment are included.

### **Playback and Recording Equipment**

(2) Tascam CC-222 Combo Cassette & CD Player/Recorder, (2) Tascam MD-350 MiniDisk Recorder. Computer playback/recording via Echo Digital Layla Interface, Sound Forge and SFX Theatre Audio Cue List software is available.

### **Processing Equipment**

(1) Yamaha SPX-990 Effects Processor is available. (8) additional processors available in the Yamaha DM-2000 Digital Mixer.

### **Stage and System Cables**

Ten interconnection panels and four floor pockets provide (136) installed mic lines feed from the Stage, Trap Room, catwalks, Control Room and Lobby. Panels have combinations of Microphone, CAT 5, Video, Intercom and Speaker signals. All lines terminate in appropriate patch or routing facilities. Almost all microphone lines are available in 8 pair sub snake configurations and individual XLR connections on the panels.

Tie lines are available to other parts of the building, including Cobra Net LAN connectivity to the Studio Theatre and TV Audio Control Room.

### **System Control**

Sound System control, machine control, video routing, paging and program audio signals are generated in a customized Crestron Control System, with controls in the Audio and Lighting Control Room, at the Stage Manager's rack and on the 'high tech' Main Theatre podium. A Dolby CP-650 Cinema Processor provides the audio decoding for projection.

### **Personnel**

A Regent University certified audio engineer is required to be present when the system is in use and will be routinely included in the system rental. The client is welcome to provide his or her own mix engineer, provided they will submit to the operational procedures as defined by Regent's School of Communication Audio Department and presented by Regent's staff audio engineer.

*For additional information or availability of additional rental equipment, please call Ralph Sitton, Audio Supervisor, Regent University School of Communication (757)226-4749. You may submit your equipment rider or other communication via fax at (757)226-4279 or email via [ralph.sitton@regent.edu](mailto:ralph.sitton@regent.edu).*