

James E. Taylor High School Performing Arts Center

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Performing Arts Center Needs Overview

Performing Arts Center equipment up-grade needs

- **Up-graded Video System: To allow PAC events to be recorded and mixed digitally on site. This will also allow cross curriculum use of the system by the current video technology classes and Blue Review students. This will put equipment in place that will enhance live broadcasts to rooms in THS and other campuses, as well as fix low quality images to projectors and projector quality for presentations by outside groups and administration.**

Upgrades to include:

- **2- PTZ professional digital cameras**
- **2 Tripod/handheld professional digital cameras**
- **Digital video mixing and recording hardware/software**
- **Upgraded wiring to handle current and future signal quality needs**
- **General video hardware**
- **Relocation of A/V equipment to old lighting room**
- **New Video projectors/ relocation of projectors closer to screens**
- **Relocation of projection screens and larger (14' x 14') screens**
- **Wireless intercom system for camera operators and control boot**

- **Upgraded Sound System: Digital audio technology will be the mainstay for PAC performances and usage. Inclusion of the this new standard in live audio will increase the quality of vocal sound reinforcement, audio recording of required events, and will be used in conjunction with the A/V equipment to increase sound quality for live digital video recording. The digital format will decrease the amount of external analogue effects, processing and recording equipment which is now in place. Theatre Students will have access to training on current technology standard equipment and processes for live audio recording and sound reinforcement.**

System Upgrades to include:

- **New 24-36 channel digital mixing console for live audio mixing**
- **Compatible MAC, computer with associated hardware, and recording software. (Back-up hard drives, digital effects plug-ins, monitors)**
- **Inclusion of 15-20 more microphone inputs and 4-8 more individual audio returns for stage monitors.**
- **Replacement of/ checking compatibility of existing audio wiring.**
- **Relocation of amplifiers and other equipment from the Storage area back stage to the Control booth for easier adjustment and trouble shooting.**
- **Safety covers and lockable mounting racks for all associated audio equipment located in the booth.**
- **4-8 more recording microphones (wired and wireless) to use for multiple recording applications.**
- **2-4 portable 2 way effects speakers 2 powered Subwoofers to expand the flexibility of speaker placement in the house and on stage.**

- **6-8 High End Vocal singing wireless Lavalier and handheld microphones (UHF or Wireless Digital)**
 - **Fix, and replace any existing hardware that will be a part of the new audio system.**
 - **10 wireless intercom headsets, and receiver hardware that is adaptable to the existing wired Intercoms.**
 - **Misc audio connectors, cable, audio testing and repair equipment, used for upkeep of the PAC audio system.**
- **New performance lighting fixtures, replacement/repair parts for existing Inventory and New Lighting Console. This will allow the PAC fixtures to stay in the PAC instead of being shared with the other 2 performance spaces. This will allow basic light plots to be set-up for all three spaces, and allow enhancement of PAC Lighting designs from student designers to be implemented. Students will spend less time moving instruments from one space to the other. LED color wash fixtures will reduce electrical consumption, and reduce heat on stage from standard Incandescent fixtures. The Current lighting console is no longer manufactured, and will not be supported by the manufacturer within a short time. The new console will be similar to what is in professional venues and will give the PAC technicians and theatre technicians more flexibility and creativity in the execution of the lighting design.**

New fixtures will include:

- **38 LED Strip Lights**
 - **20-25 ERS Zoom fixtures**
 - **2 Automated Spot lighting fixtures**
 - **2 Automated color wash fixtures**
 - **Misc lighting Accessories (Gobo Rotators, Color changers, connector, cable etc...)**
 - **ETC Ion Lighting Console**
- **Misc Consumable PAC materials: These consumables are used and required for many of the PAC events and cost of replacement often falls on THS Fine Arts Organizations. Consumables Items can include:**
 - **Gaffers tape.**
 - **Color Lighting gels.**
 - **Batteries for Wireless, Microphones and testing Equipment.**
 - **Equipment Repair Tags, Lock Out Tags**
 - **CD/R, soft CD protector sleeves, CD Labels**
 - **Equipment repair consumables (solder, electrical tape, wire ties, general PAC office supplies.**