



Teddington Secondary School



PEL delivers Audio Visual solution for Teddington Secondary School

As part of the Building Schools for the Future project, PEL Music & Media was invited to tender for the Drama, Theatre & Music Department's Audio Visual package. With the consultant's specification pushing the budget to over £140,000 it was not long before Headmaster Richard Meeks and Deputy Headmaster Jeremy Law had to re-evaluate their requirements for these demanding areas. During regular meetings with contractors Mace Plus, M7 and Validus acting on behalf of the Richmond Borough Council, PEL were invited to re-design the AV system to accurately reflect the school's syllabus at a cost that would not exceed budget.

PEL's design satisfied all of the school's requirements, providing a multi-functional system for the Drama, Theatre & Music Department with overall control provided by a wireless Crestron solution incorporating:

- Crestron Wireless control and automation
- 24 Channels of Dimmable Lighting for each Drama Suite
- 48 Channels of combined Lighting control for stage production
- Local & Remote Control Of Stage Lighting Desks
- Large Scale Projection Systems for each Drama Suite
- Local Audio Engineering Point for Live Productions
- Outboard Processing for Live Performances
- Full Digital Recording & Editing Suite for Live Productions
- Turbosound Front of House PA System with Full Stage Monitoring
- 24 Channel Mixing Console for Production & Recording
- 24-Track HDD Digital Recorder
- Firewire Interface for Editing Suites such as Pro-tools, Garage Band, & Nuendo etc.
- Flat Response Studio Monitors
- Instrument & Vocal Microphones
- Quad Audio Compressors
- Quad Audio Noise Gates
- Reverb Processors

- Audio Input Panels c/w Headphone Interfaces for Music Ensemble Rooms
- Audio input Panels c/w Headphone Interfaces for Music Practice Rooms
- Patch Panel interfaces to allow simultaneous matrix configurations of audio signal routing
- Local & remote control of Audio, VGA & Video signals in each Drama Suite
- RS-232 Control of the Venue House Lighting for Theatre use
- Track & Curtain system
- RS-232 Control System with easy to use GUI

Due to the complexity of the system a Crestron Control with Wireless Touch Panel was included within the design and PEL's in house programming team provided a user-friendly GUI (Graphical User Interface) enabling easy access to the system.

With guidance from the Deputy Headmaster on operational requirements, PEL programmed set commands that would automatically switch the systems to the correct state for events such as Stage Performance, Live Bands, Recording, Assembly and Theatre by a simple press of a button. Crestron controls Stage Lighting Dimmers, DMX Signal Routing, Data & Video Projectors, Projection Screens, BSS DSP Audio Processor, Kramer VGA & Video Matrices, DVD Players and the Drama Suite's House Lighting System.

The school has already staged many high class performances and the pupils are set to continue achieving high standards with the future productions that they have planned and both pupils and staff are enjoying the full functionality of the AV package that PEL has installed.

With a saving of over £42,000 from the original design set out by the consultant, PEL has delivered all the required disciplines above and beyond the schools expectations and delivered a system that was on time, within budget and fit for purpose.

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